**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

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|  |
| ***Title:***  | Rel-18 CR TS 28.541Add missing AIML support for AnLFFunction |
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| ***Source to WG:*** | , Intel |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | AIML Support for AnLFFunction is missing |
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| ***Summary of change:*** | Add AIML Support for AnLFFunction |
|  |  |
| ***Consequences if not approved:*** | lead to incorrect and incomplete implementation. |
|  |  |
| ***Clauses affected:*** | 5.3.226.1, 4.4.1 and OpenAPI/TS28541\_5GcNrm.yaml |
|  |  |
|  | **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 ... S5-241413 |
|  |  |
| ***Other comments:*** | Forge MR link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1081> at commit cf8be548119b36244b55b06567fa3a4e06d209ad |
|  |  |
| ***This CR's revision history:*** |  |

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| **Start of 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 MLEntityRef 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:

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| **Attribute name** | **S** | **isReadable** | **isWritable** | **isInvariant** | **isNotifyable** |
| activationStatus | M | T | F | F | T |
| **Attribute related to role** |  |  |  |  |  |
| mlEntityRef | CM | T | F | F | T |
| aIMLInferenceFunctionRef | CM | T | F | F | T |

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#### 5.3.226.X Attribute constraints

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| Name | Definition |
| mlEntityRef | The condition is "AIML feature is supported". |
| aIMLInferenceFunctionRef | The condition is "AIMLInferenceFunction is supported". |

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| **Next of modification** |

### 4.4.1 Attribute properties

| Attribute Name | Documentation and Allowed Values | Properties |
| --- | --- | --- |
| 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: LOCKEDisNullable: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| arfcnDL | NR Absolute Radio Frequency Channel Number (NR-ARFCN) for downlinkallowedValues: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| arfcnUL | NR Absolute Radio Frequency Channel Number (NR-ARFCN) for uplinkallowedValues: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| arfcnSUL | NR Absolute Radio Frequency Channel Number (NR-ARFCN) for supplementary uplinkallowedValues: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: 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: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: 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: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: 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: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: False |
| beamType | The type of the beam. allowedValues: "SSB-BEAM" | type: ENUMmultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: 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: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NullisNullable: False |
| bSChannelBwDL  | BS Channel BW in MHz. for downlinkallowedValues: See BS Channel BW in TS 38.104 [12], subclause 5.3.​ | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| bSChannelBwUL  | BS Channel BW in MHz.for uplinkallowedValues:See BS Channel BW in TS 38.104 [12], subclause 5.3.​ | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| bSChannelBwSUL  | BS Channel BW in MHz.for supplementary uplinkallowedValues:See BS Channel BW in TS 38.104 [12], subclause 5.3.​ | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| cyclicPrefix | Cyclic prefix as defined in TS 38.211 [32], subclause 4.2.allowedValues: NORMAL, EXTENDED. | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: AddressWithVlanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| AddressWithVlan. vlanId | This parameter specifies the local VLAN Id (See IEEE 802.1Q [39]) used for initialization of the underlying transport. | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 1..12isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: Stringmultiplicity: 1..12isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NULLisNullable: 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: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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..12isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: PLMNInfomultiplicity: 1..\*isOrdered: TrueisUnique: TruedefaultValue: NoneisNullable: 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: PLMNInfomultiplicity: 1..\*isOrdered: TrueisUnique: TruedefaultValue: NoneisNullable: 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.(nPNIdentity referring to TS 38.331 [54])allowedValues: Not applicable. | type: NPNIdentitymultiplicity: 1..\*isOrdered: TrueisUnique: TruedefaultValue: NoneisNullable: 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: PLMNIdmultiplicity: 1..12isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: RRMPolicyMembermultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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-NSSAImultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneallowedValues: N/AisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneallowedValues: N/AisNullable: 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: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 100isNullable: 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 : 100NOTE: Void. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| bwpContext | It identifies whether the object is used for downlink, uplink or supplementary uplink.allowedValues: DL, UL, SUL | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| isInitialBwp | It identifies whether the object is used for initial or other BWP.allowedValues: INITIAL, OTHER | type: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| adjacentNRCellRef | This attribute contains the DN of an adjacentNRCell (NRCellCU or ExternalNRCellCU) allowedValues: Not applicable. | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| ssbFrequency | Indicates cell defining SSB frequency domain positionFrequency 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| nRFrequencyRef | This attribute contains the DN of the referenced NRFrequency.allowedValues: Not applicable. | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| nRrFreqRelationRef | This attribute contains the DN of the referenced NRFreqRelation.allowedValues: Not applicable. | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| nRSectorCarrierRef | This attribute contains the DN of the referenced NRSectorCarrier.allowedValues: Not applicable. | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| bWPRef | This attribute contains a list of referenced BWPs.allowedValues: DN of a BWP. | type: DNmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| sectorEquipmentFunctionRef | This attribute contains the DN of the referenced SectorEquipmentFunction.allowedValues: Not applicable. | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: QOffsetRangeListmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: N/AisNullable: 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: Integermultiplicity: 6isOrdered: TrueisUnique: FalsedefaultValue: 0isNullable: 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: Integermultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| blockListEntryIdleMode | It specifies a list of PCI (physical cell identity) that are exclude-listed in SIB4 and SIB5.allowedValues: { 0…1007 } | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0NoneisNullable: 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: Realmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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: ENUMmultiplicity: 6isOrdered: TrueisUnique: FalsedefaultValue: 0isNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 = 0.2550 = 0.575 = 0.75100 = 1.0 allowedValues: {25, 50, 75, 100}.  | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 = 0.2550 = 0.575 = 0.75100 = 1.0 allowedValues: {25, 50, 75, 100}.  | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| absoluteFrequencySSB | The absolute frequency applicable for a downlink NR carrier frequency associated with the SSB.allowedValues: {0.. 3279165}. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| ssbOffset

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 | 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| ssbDuration

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 | 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| rimRSMonitoringStopTime | This field configures the UTC time when the gNB stops RIM-RS monitoring.allowedValues: containing the information same with xsd: dateTime. | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: MappingSetIDBackhaulAddressmultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| backhaulAddress | The attribute specifies backhaulAddress which is defined as a datatype (see clause 4.3.48). allowedValues: Not applicable | type: BackhaulAddressmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: TAImultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| desSwitch | This attribute determines whether the Distributed SON energy saving function is enabled or disabled.allowedValues: TRUE,FALSE |  type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| cesSwitch | This attribute determines whether the Centralized SON energy saving function is enabled or disabled.allowedValues: TRUE,FALSE |  type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: enumerationmultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: enumerationmultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| intraRatEsActivationOriginalCellLoadParameters | 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. The time duration indicates how long the load needs to have been below the threshold.allowedValues: Threshold: Integer 0..100 (Percentage of PRB usage, see 3GPP TS 36.314 [13])TimeDuration: Integer (in unit of seconds) | type: data typemultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| intraRatEsActivationCandidateCellsLoadParameters | This attributes 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: Threshold: Integer 0..100 (Percentage of PRB usage (see 3GPP TS 36.314 [13]) )TimeDuration: Integer (in unit of seconds) | type: data typemultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| intraRatEsDeactivationCandidateCellsLoadParameters | 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. 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: Threshold: Integer 0..100 (Percentage of PRB usage (see 3GPP TS 36.314 [13]) )TimeDuration: Integer (in unit of seconds) | type: data typemultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: The legal values are as follows:startTime and endTime:All values that indicate valid UTC time. endTime should be later than startTime.periodOfDay: structure of startTime and endTime.daysOfWeekList: list of weekday. weekday: Monday, Tuesday, … Sunday.List of time periods: {{ daysOfWeek daysOfWeekList,periodOfDay dailyPeriod}} |  type: data typemultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: data typemultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: data typemultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: data typemultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: enumerationmultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| dmroControl | This attribute determines whether the MRO function is enabled or disabled.allowedValues: TRUE,FALSE | type: Booleanmultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| dDAPSHOControl | This attribute determines whether the DAPS handover function is enabled or disabled.allowedValues: TRUE, FALSE | type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| dCHOControl | This attribute determines whether the CHO handover function is enabled or disabled.allowedValues: TRUE, FALSE | type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| dlboControl | This attribute determines whether the D-LBO function is enabled or disabled.allowedValues: TRUE,FALSE | type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 1 to 100X. | type: Integermultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: data typemultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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 access delay, 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 *a* and *b* is vendor-specific. | type: data typemultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| drachOptimizationControl | This attribute determines whether the RACH Optimization function is enabled or disabled.allowedValues: TRUE,FALSE | type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 0..1007isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| dPciConfigurationControl | This attribute determines whether the Distributed SON PCI configuration Function is enabled or disabled.allowedValues: TRUE,FALSE | type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| cPciConfigurationControl | This attribute determines whether the Centralized SON PCI configuration function is enabled or disabled.allowedValues: TRUE,FALSE | type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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..20Unit: 0.5 dB | type: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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..20Unit: 0.5 dB | type: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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..604800Unit: Seconds | type: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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..1023Unit: 100 milliseconds | type: Integermultiplicity: 0..1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: DNmultiplicity: 0..1isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: DNmultiplicity: 0..1isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| frequencyDomainPara | This attribute defines configuration parameters of frequency domain resource to support RIM RS. allowedValues: Not applicable. | type: FrequencyDomainParamultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| sequenceDomainPara | This attribute defines configuration parameters of sequence domain resource to support RIM RS. allowedValues: Not applicable. | type: SequenceDomainParamultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| timeDomainPara | This attribute defines configuration parameters of time domain resource to support RIM RS. allowedValues: Not applicable. | type: TimeDomainParamultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| rimRSSubcarrierSpacing | It is the subcarrier spacing configuration ($μ$) for the RIM-RS. Subcarrier spacing $Δf=2^{μ}∙15 kHz.$ (see 38.211 [32], subclause 5.3.3).allowedValues: 0, 1 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 be96 if subcarrier spacing is15kHz;48 or 96 if subcarrier spacing is 30kHz;For carrier bandwidth smaller than or equal to 20MHz, this attribute should beMinimum 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| nrofGlobalRIMRSFrequencyCandidates | It is the number of candidate frequency resources in the whole network ($N\_{f}^{RIM}$) (see 38.211 [32], subclause 7.4.1.6). allowedValues: 1,2,4 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1, 2, 4isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| nrofRIMRSSequenceCandidatesofRS1 | It is the number of candidate sequences assigned for RIM RS-1 ($N\_{s}^{RIM,1}$) (see 38.211 [32], subclause 7.4.1.6). It should be even when enableEnoughNotEnoughIndication for RS-1 is ONallowedValues: 1,2..8see NOTE 10 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1, 2..8isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| nrofRIMRSSequenceCandidatesofRS2 |  It is the number of candidate sequences assigned for RIM RS-2 ($N\_{s}^{RIM,2}$) (see 38.211 [32], subclause 7.4.1.6).allowedValues: 1,2..8See NOTE 10. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1, 2..8isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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 sideenableEnoughNotEnoughIndication is equivalent to EnoughIndication (see 38.211 [32], subclause 7.4.1.6)allowedValues: "ENABLE", "DISABLE"see NOTE 8 | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: DISABLE isNullable: False |
| RIMRSScrambleTimerMultiplier | It is parameter multiplier factor $γ$ for initialization seed of the pseudo-random sequence $\overbar{c}\left(i\right)$ (see 38.211 [32], subclause 7.4.1.6.2).allowedValues: 0,1,….2^31-1 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| RIMRSScrambleTimerOffset | It is parameter offset $δ$ for initialization seed of the pseudo-random sequence $\overbar{c}\left(i\right)$ (see 38.211 [32], subclause 7.4.1.6.2).allowedValues: 0,1,….2^31-1 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 $T\_{per,1}^{RIM}$ (see 38.211 [32], subclause 7.4.1.6).See NOTE 6allowedValues: 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: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 $T\_{per,2}^{RIM}$ (see 38.211 [32], subclause 7.4.1.6)See NOTE 9 | type: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| totalnrofSetIdofRS1 | It is the total number of set IDs for RIM RS-1 ($N\_{setID}^{RIM,1}$) (see 38.211 [32], subclause 7.4.1.6).allowedValues: 0,1...2^22-1 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| totalnrofSetIdofRS2 | It is the total number of set IDs for RIM RS-2 ($N\_{setID}^{RIM,2}$) (see 38.211 [32], subclause 7.4.1.6).allowedValues: 0,1...2^22 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: 1,2,4,8see NOTE 7 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: 1,2,4,8see NOTE 7 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 ($N\_{symb,ref}^{RIM, 1}$) 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: Integermultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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 ($N\_{symb,ref}^{RIM, 2}$) 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: Integermultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: DISABLEisNullable: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: DISABLEisNullable: 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: RimRSReportConfmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: N/AisNullable: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: DISABLE isNullable: False |
| reportInterval | It is used to define reporting interval of a gNB in ms.allowedValues: Not applicable | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| nrofRIMRSReportInfo | It is used to define the maximum number of RIMRSReportInfo in a single report.allowedValues: Not applicable | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: RimRSReportInfomultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: N/AisNullable: False |
| detectedSetID | This attribute indicates the Set ID of the detected RIM-RS. allowedValues: 0,1...max{totalnrofSetIdofRS1, totalnrofSetIdofRS2}. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| propagationDelay | This attribute indicates the propagation delay of the detected RIM-RS, in number of OFDM symbol.allowedValues: 0, 1.. maxPropagationDelay. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Enummultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| rimRSMonitoringWindowDuration | This attribute configures a duration of the monitoring window in which gNB monitors the RIM-RS, in unit of $P\_{t}$, where $P\_{t}$ 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 $M\*P\_{t}$, where $M$ 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 $N\_{T}$ consecutive detection durations in each RIM-RS transmission periodicity ($P\_{t}$) 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 $P1\*R1$ (if only $P1$ is configured) or ${\left(P1+P2\right)}/{2}\*R1$ (if both$ P1$ and $P2$ are configured), where,$R1$ is the number of consecutive uplink-downlinkswitching periods for RS-1 (configured by nrofConsecutiveRIMRS1),$P1$ is the first uplink-downlinkswitching period (configured by dlULSwitchingPeriod1), $P2$ is the second uplink-downlink switching period (configured by dlULSwitchingPeriod2), and$$N\_{T}=\left\{\begin{matrix}\left⌈\frac{N\_{setID}^{RIM,1}}{N\_{f}^{RIM}N\_{s}^{RIM,1}}\right⌉&if enableEnoughNotEnoughIndication is "disable"\\\left⌈\frac{2N\_{setID}^{RIM,1}}{N\_{f}^{RIM}N\_{s}^{RIM,1}}\right⌉&if enableEnoughNotEnoughIndication is "enable"\end{matrix}\right.$$$N\_{setID}^{RIM,1}$ is the total number of set IDs for RIM RS-1 (configured by totalnrofSetIdofRS1),$N\_{f}^{RIM}$ is the number of candidate frequency resources in the whole network (configured by nrofGlobalRIMRSFrequencyCandidates), and $N\_{s}^{RIM,1}$ is the number of candidate sequences assigned for RIM RS-1 (configured by nrofRIMRSSequenceCandidatesofRS1).allowedValues: 1,2,..2^14 | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 $N\_{T}$, where $N\_{T}$ is given in above attribute rimRSMonitoringWindowDuration.allowedValues: 1,2..$N\_{T}$-1. | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| rimRSMonitoringOccasionStartingOffset | This attribute configures the start offset of the first monitoring occasions within the monitoring window ($S\_{M}$), in unit of consecutive detection duration.gNB starts monitoring potential interference from the $S\_{M}$-th consecutive detection duration in the first complete RIM-RS transmission periodicity ($P\_{t}$) within the monitoring window.allowedValues: 0,1,2..M-1where M is the the interval between adjacent monitoring occasions within the monitoring window (configured by rimRSMonitoringOccasionInterval) | Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| victimSetRef | This attribute contains the DN of a victim Set (RimRSSet) allowedValues: Not applicable. | type: DNmultiplicity: 1isOrdered: N/AisUnique: TruedefaultValue: NoneisNullable: False |
| aggressorSetRef | This attribute contains the DN of an aggressor Set (RimRSSet) allowedValues: Not applicable. | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 existIf 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| nRCellDURef | This attribute contains the DN of a NR Cell (NRCellDU) allowedValues: Not applicable. | type: DNmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: Stringmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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 nodeThe 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: Stringmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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 nodeThe 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: Stringmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: Stringmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: Stringmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: 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: tceIDMappingInfomultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| tceIPAddress | This attribute indicates IP address of TCE. (See subclause 4.1.1.9.2 in TS 32.422[68]) | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| tceID | This attribute indicates TCE Id. (See subclause 4.1.1.9.2 in TS 32.422[68]) | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: PLMNIdmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| NROperatorCellDU.nRCellDURef | This attribute contains the DN of the referenced NRCellDU.allowedValues: N/A | type: DNmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: ParameterRangemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 degreemaxValue: [-900..900] in unit 0.1 degree | type: ParameterRangemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 degreemaxValue: [-1800..1800] in unit 0.1 degree | type: ParameterRangemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 degreemaxValue: [-900..900] in unit 0.1 degree | type: ParameterRangemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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 degreemaxValue: [-1800..1800] in unit 0.1 degree | type: ParameterRangemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| coverageShapeList | It indicates the coverage shape of specific sites which can be selected to optimize radio coverage.allowedValues: 0 .. 65535 | type: Integermultiplicity: 0..\*isOrdered: TrueisUnique: TruedefaultValue: NoneisNullable: False |
| cCOControl | This attribute determines whether the centralized SON CCO Function is enabled or disabled.allowedValues: TRUE,FALSE | type: Booleanmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| maxValue | It indicates the maximum value of the parameter.allowedValues: N/A | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| minValue | It indicates the minimum value of the parameter.allowedValues: N/A | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: ENUMmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: LOCKEDisNullable: False |
| bWPSetRef | Contains the DN of a BWP set (BWPSet).allowedValues: Not applicable | type: DN multiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| bWPList | Defines the list of DN of BWPs associated to the BWPSet.allowedValues: Not applicable | type: DN multiplicity: 0..12isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| ephemerisInfoSetRef | This is the DN of EphemerisInfoSet. allowedValues: DN of the EphemerisInfoSet MOI. | type: DNmultiplicity: 0..1isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| ephemerisInfos | This is the list of Ephemeris related information.allowedValues: N/A | type: Ephemerismultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneallowedValues: N/AisNullable: 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: PLMNInfomultiplicity: 1..\*isOrdered: TrueisUnique: TruedefaultValue: NoneisNullable: 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: NrTacmultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneallowedValues: N/AisNullable: 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..255allowedValues: Follow the pattern: '^[0-9]{5}$' | type: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| epochTime | It defines the ephemeris reference time.,aAllowedValues: N/A | type: DateTimemultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| positionVelocity | It indicates ephemeris is in format of NTN payload position and velocity state vectors.allowedValues: N/A | type: PositionVelocitymultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| orbital | It indicates ephemeris is in orbital parameter ephemeris format, as specified in NIMA TR 8350.2 [95].allowedValues: N/A | type: Orbitalmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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..604800Unit: meter | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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..604800Unit: meter | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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..604800Unit: meter | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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..131071Unit: meter/second | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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..131071Unit: meter/second | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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..131071Unit: meter/second | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: False |
| semiMajorAxis | Satellite orbital parameter: semi major axis , see NIMA TR 8350.2 [95]. Step of 4.249 \* 10-3 m. Actual value = 6500000 + field value \* (4.249 \* 10-3).allowedValues: 0..8589934591Unit: meter | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: False |
| periapsis | Satellite orbital parameter: argument of periapsis , see NIMA TR 8350.2 [95]. Step of 2.341\* 10-8 rad. Actual value = field value \* (2.341\* 10-8).allowedValues: 0..16777215Unit: radian | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: False |
| longitude | Satellite orbital parameter: longitude of ascending node , see NIMA TR 8350.2 [95]. Step of 2.341\* 10-8 rad. Actual value = field value \* (2.341\* 10-8).allowedValues: 0..2097151Unit: radian | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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..524287Unit: radian | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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..16777215Unit: radian | type: Integermultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: 0isNullable: 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: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: Stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: 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: QceIdMappingInfomultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| mlEntityRef | This attribute holds a DN of MLEntity (See TS 28.105 [105]) . | type: DNmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| aIMLInferenceFunctionRef | This attribute holds a DN of AIMLInferenceFunction (See TS 28.105 [105]) . | type: DNmultiplicity: 0..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| NOTE 1: VoidNOTE 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: VoidNOTE 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 of modification** |

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

<CODE BEGINS>

openapi: 3.0.1

info:

 title: 3GPP 5GC NRM

 version: 18.7.0

 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'

 allowedSNPNs:

 type: array

 items:

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

 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

 SnpnInfo:

 type: object

 properties:

 snpnId:

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

 snssai:

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

 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

 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 --------------------------------------------

 MnS:

 oneOf:

 - type: object

 properties:

 SubNetwork:

 type: array

 items:

 $ref: '#/components/schemas/SubNetwork-ncO-5GcNrm'

 - type: object

 properties:

 ManagedElement:

 type: array

 items:

 $ref: '#/components/schemas/ManagedElement-ncO-5GcNrm'

 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'

 - $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'

 - $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'

 PredefinedPccRuleSet:

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

 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'

 - $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

 mLEntityRef:

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

 aIMLInferenceFunctionRef:

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

 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:

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 EP\_SM14-Multiple:

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 Configurable5QISet-Multiple:

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 Dynamic5QISet-Multiple:

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 EcmConnectionInfo-Multiple:

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 NssaafFunction-Multiple:

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 EP\_N59-Multiple:

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 AfFunction-Multiple:

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 DccfFunction-Multiple:

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 ChfFunction-Multiple:

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 items:

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 MfafFunction-Multiple:

 type: array

 items:

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 GmlcFunction-Multiple:

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 items:

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

 TsctsfFunction-Multiple:

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 items:

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 AanfFunction-Multiple:

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 BsfFunction-Multiple:

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

 MbSmfFunction-Multiple:

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 MbUpfFunction-Multiple:

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 MnpfFunction-Multiple:

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#------------ Definitions in TS 28.541 for TS 28.532 -----------------------------

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

 - $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'

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 - $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'

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 - $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 modification** |