**3GPP TSG-SA5 Meeting #131e *S5-203133Rev1***

**e-meeting 25th May-3rd June 2020**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **541** | **CR** | **295** | **rev** | **-** | **Current version:** | **1** |  |
|  |
| *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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Correct NRM definition in XML solution |
|  |  |
| ***Source to WG:*** | CATT |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | eNRM |  | ***Date:*** | 2020-05-03 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-16 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | There need a clean baseline for stage 3 XSD solutions |
|  |  |
| ***Summary of change:*** | Fix the XSD validation errors. |
|  |  |
| ***Consequences if not approved:*** | 1. CI in Forge could not work2. Incorrect specification potentially leading to incorrect implementations |
|  |  |
| ***Clauses affected:*** | C.4.3, F.4.3, I.4.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | Refer to https://forge.etsi.org/rep/3GPP/SA5/data-models/tree/Shumin\_XSD\_from\_specs\_approved\_at\_SA87 |
|  |  |
| ***This CR's revision history:*** |  |

|  |
| --- |
| **1st Modified Section** |

## C.4.3 XML schema "nRNrm.xsd"

<?xml version="1.0" encoding="UTF-8"?>

<!--

 3GPP TS 28.541 NR Network Resource Model

 XML schema definition

 nrNrm.xsd

-->

<schema xmlns="http://www.w3.org/2001/XMLSchema"

xmlns:xn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm"

xmlns:nn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm"

xmlns:en="http://www.3gpp.org/ftp/specs/archive/28\_series/28.659#eutranNrm"

xmlns:epc="http://www.3gpp.org/ftp/specs/archive/28\_series/28.709#epcNrm"

xmlns:sm="http://www.3gpp.org/ftp/specs/archive/28\_series/28.626#stateManagementIRP"

xmlns:ngc="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"

xmlns:sp="http://www.3gpp.org/ftp/specs/archive/28\_series/28.629#sonPolicyNrm"

targetNamespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm" elementFormDefault="qualified">

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.709#epcNrm"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.626#stateManagementIRP"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.629#sonPolicyNrm"/>

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 <maxInclusive value="4294967295"/>

 </restriction>

</simpleType>

<simpleType name="GnbIdLength">

 <restriction base="integer">

 <minLength value="22"/>

 <maxLength value="32"/>

 </restriction>

</simpleType>

<simpleType name="Nci">

 <restriction base="unsignedLong">

 <maxInclusive value="68719476735"/>

 </restriction>

</simpleType>

<simpleType name="Pci">

 <restriction base="unsignedShort">

 <maxInclusive value="503"/>

 <!-- Minimum value is 0, maximum value is 3x167+2=503 -->

 </restriction>

</simpleType>

<simpleType name="NrTac">

 <restriction base="unsignedLong">

 <maxInclusive value="16777215"/>

 <!--5G TAC is 3-octets length -->

 </restriction>

</simpleType>

<simpleType name="GnbDuId">

 <restriction base="unsignedLong">

 <maxInclusive value="68719476735"/>

 <!-- Minimum value is 0, maximum value is 2^36-1=68719476735 -->

 </restriction>

</simpleType>

<simpleType name="GnbCuupId">

 <restriction base="unsignedLong">

 <maxInclusive value="68719476735"/>

 <!-- Minimum value is 0, maximum value is 2^36-1=68719476735 -->

 </restriction>

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 <maxLength value="150"/>

 </restriction>

</simpleType>

<simpleType name="CyclicPrefix">

 <restriction base="integer">

 <enumeration value="15"/>

 <enumeration value="30"/>

 <enumeration value="60"/>

 <enumeration value="120"/>

 </restriction>

</simpleType>

<simpleType name="QuotaType">

 <restriction base="string">

 <enumeration value="STRICT"/>

 <enumeration value="FLOAT"/>

 </restriction>

</simpleType>

<simpleType name="CellState">

 <restriction base="string">

 <enumeration value="IDLE"/>

 <enumeration value="INACTIVE"/>

 <enumeration value="ACTIVE"/>

 </restriction>

</simpleType>

<simpleType name="BwpContext">

 <restriction base="string">

 <enumeration value="DL"/>

 <enumeration value="UL"/>

 <enumeration value="SUL"/>

 </restriction>

</simpleType>

<simpleType name="IsInitialBwp">

 <restriction base="string">

 <enumeration value="INITIAL"/>

 <enumeration value="OTHER"/>

 </restriction>

</simpleType>

<simpleType name="qOffsetRangeList">

 <restriction base="string">

 <enumeration value="dB-24"/>

 <enumeration value="dB-22"/>

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 <enumeration value="dB-18"/>

 <enumeration value="dB-16"/>

 <enumeration value="dB-14"/>

 <enumeration value="dB-12"/>

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 <enumeration value="dB22"/>

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 </restriction>

</simpleType>

<simpleType name="cellReselectionPriority">

 <restriction base="unsignedLong">

 <minInclusive value="0"/>

 <maxInclusive value="16"/>

 <!--Value 0 means lowest priority-->

 </restriction>

</simpleType>

<simpleType name="cellReselectionSubPriority">

 <restriction base="unsignedLong">

 <minInclusive value="0"/>

 <maxInclusive value="16"/>

 <!--Value 0 means lowest priority-->

 </restriction>

</simpleType>

<simpleType name="PMaxRangeType">

 <restriction base="short">

 <minInclusive value="-30"/>

 <maxInclusive value="33"/>

 </restriction>

</simpleType>

<simpleType name="qOffsetFreq">

 <restriction base="short">

 <minInclusive value="-24"/>

 <maxInclusive value="24"/>

 </restriction>

</simpleType>

<simpleType name="qQualMin">

 <restriction base="integer">

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<simpleType name="qRxLevMin">

 <restriction base="integer">

 <minInclusive value="-140"/>

 <maxInclusive value="-44"/>

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</simpleType>

<simpleType name="Thresxhighp">

 <restriction base="integer">

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 <maxInclusive value="62"/>

 </restriction>

</simpleType>

<simpleType name="Threshxhighq">

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<simpleType name="Threshxlowp">

 <restriction base="integer">

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 <maxInclusive value="62"/>

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</simpleType>

<simpleType name="Threshxlowq">

 <restriction base="integer">

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 </restriction>

</simpleType>

<simpleType name="Treselectionnr">

 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="7"/>

 </restriction>

</simpleType>

<simpleType name="Treselectionnrsfhigh">

 <restriction base="string">

 <enumeration value="25"/>

 <enumeration value="50"/>

 <enumeration value="75"/>

 <enumeration value="100"/>

 </restriction>

</simpleType>

<simpleType name="Treselectionnrsfmedium">

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 <enumeration value="50"/>

 <enumeration value="75"/>

 <enumeration value="100"/>

 </restriction>

</simpleType>

<simpleType name="Absolutefrequencyssb">

 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="3279165"/>

 </restriction>

</simpleType>

<simpleType name="Ssbsubcarrierspacing">

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</simpleType>

<simpleType name="Multifrequencybandlistnr">

 <restriction base="integer">

 <minInclusive value="1"/>

 <maxInclusive value="256"/>

 </restriction>

</simpleType>

<simpleType name="beamType">

 <restriction base="string">

 <enumeration value="SSB-BEAM"/>

 </restriction>

</simpleType>

<simpleType name="beamAzimuth">

 <restriction base="integer">

 <minInclusive value="-1800"/>

 <maxInclusive value="1800"/>

 </restriction>

</simpleType>

<simpleType name="beamTilt">

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<simpleType name="beamHorizWidth">

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<simpleType name="beamVertWidth">

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 <maxInclusive value="1800"/>

 </restriction>

</simpleType>

<simpleType name="coverageShapeType">

 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="65535"/>

 </restriction>

</simpleType>

<simpleType name="resourceType">

 <restriction base="string">

 <enumeration value="PRB"/>

 <enumeration value="RRC"/>

 <enumeration value="DRB"/>

 </restriction>

</simpleType>

<complexType name="LocalEndPoint">

 <sequence>

 <element name="ipv4Address" type="string"/>

 <element name="ipv6Address" type="string"/>

 <element name="ipv6Prefix" type="string"/>

 <element name="vlanId" type="integer"/>

 </sequence>

</complexType>

<complexType name="RemoteEndPoint">

 <sequence>

 <element name="ipv4Address" type="string"/>

 <element name="ipv6Address" type="string"/>

 <element name="ipv6Prefix" type="string"/>

 </sequence>

</complexType>

<complexType name="blackListEntry">

 <sequence minOccurs="0" maxOccurs="1007">

 <element name="pci" type="en:Pci" maxOccurs="504"/>

 </sequence>

</complexType>

<complexType name="blackListEntryIdleMode">

 <sequence minOccurs="0" maxOccurs="1007">

 <element name="pci" type="en:Pci" maxOccurs="504"/>

 </sequence>

</complexType>

<complexType name="PLMNIdList">

 <sequence>

 <element name="pLMNId" type="en:PLMNId" maxOccurs="6"/>

 <!-- The first pLMNId of the pLMNIdList is primary PLMN id -->

 </sequence>

</complexType>

<complexType name="cellIndividualOffset">

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 <element name="rsrpOffsetSSB" type="qOffsetRangeList"/>

 <element name="rsrqOffsetSSB" type="qOffsetRangeList"/>

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 <element name="rsrpOffsetCSI-RS" type="qOffsetRangeList"/>

 <element name="rsrqOffsetCSI-RS" type="qOffsetRangeList"/>

 <element name="sinrOffsetCSI-RS" type="qOffsetRangeList"/>

 </sequence>

 </complexType>

 <complexType name="PLMNInfoType">

 <sequence>

 <element name="pLMNId" type="en:PLMNId"/>

 <element name="sNSSAI" type="ngc:SNssai" minOccurs="0"/>

 </sequence>

</complexType>

 <complexType name="PLMNInfoListType">

 <sequence>

 <element name="pLMNInfo" type="PLMNInfoType" minOccurs="1"/>

 </sequence>

</complexType>

<element name="GNBDUFunction" substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass">

 <complexType>

 <complexContent>

 <extension base="xn:NrmClass">

 <sequence>

 <element name="attributes">

 <complexType>

 <all>

 <!-- Inherited attributes from ManagedFunction -->

 <element name="userLabel" type="string" minOccurs="0"/>

 <element name="vnfParametersList" type="xn:vnfParametersListType" minOccurs="0"/>

 <element name="peeParametersList" type="xn:peeParametersListType" minOccurs="0"/>

 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction-->

 <element name="gnbId" type="nn:GnbId"/>

 <element name="gnbIdLength" type="nn:GnbIdLength"/>

 <element name="gnbDUId" type="nn:GnbDuId"/>

 <element name="gnbDuName" type="nn:GnbName" minOccurs="0"/>

 <element name="x2Blacklist" type="xn:dnList" minOccurs="0"/>

 <element name="x2Whitelist" type="xn:dnList" minOccurs="0"/>

 <element name="xnBlacklist" type="xn:dnList" minOccurs="0"/>

 <element name="xnWhitelist" type="xn:dnList" minOccurs="0"/>

 <element name="x2XnHOBlackList" type="xn:dnList" minOccurs="0"/>

 <element name="aggressorSetID" type="nn:AggressorSetID"/>

 <element name="victimSetID" type="nn:VictimSetID"/>

 </all>

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 <element ref="nn:NRCellDU"/>

 <element ref="nn:BWP"/>

 <element ref="nn:NRSectorCarrier"/>

 <element ref="nn:EP\_F1C"/>

 <element ref="nn:EP\_F1U"/>

 </choice>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:MeasurementControl"/>

 </choice>

 </sequence>

 </extension>

 </complexContent>

 </complexType>

</element>

<element name="GNBCUCPFunction" substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass">

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 <extension base="xn:NrmClass">

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 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction-->

 <element name="gnbId" type="nn:GnbId" />

 <element name="gnbIdLength" type="nn:GnbIdLength"/>

 <element name="gnbCuName" type=" nn:GnbName" minOccurs="0"/>

 <element name="pLMNId" type="en:PLMNId" />

 <element name="x2Blacklist" type="xn:dnList" minOccurs="0"/>

 <element name="x2Whitelist" type="xn:dnList" minOccurs="0"/>

 <element name="xnBlacklist" type="xn:dnList" minOccurs="0"/>

 <element name="xnWhitelist" type="xn:dnList" minOccurs="0"/>

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 <element ref="nn:NRCellCU"/>

 <element ref="nn:EP\_F1C"/>

 <element ref="nn:EP\_E1"/>

 <element ref="nn:EP\_XnC"/>

 <element ref="nn:EP\_X2C"/>

 <element ref="nn:EP\_NgC"/>

 <element ref="xn:VsDataContainer"/>

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 <element ref="xn:MeasurementControl"/>

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 </extension>

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 </complexType>

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 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction-->

 <element name="gNBCUUPId" type="nn:GnbCuupId "/>

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<element name="gNBId" type="nn:GnbId"/>

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 </element>

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 <element ref="nn:EP\_E1"/>

 <element ref="nn:EP\_F1U"/>

 <element ref="nn:EP\_XnU"/>

 <element ref="nn:EP\_NgU"/>

 <element ref="nn:EP\_X2U"/>

 <element ref="nn:EP\_S1U"/>

 <element ref="xn:VsDataContainer"/>

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 <element name="peeParametersList" type="xn:peeParametersListType" minOccurs="0"/>

 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction-->

 <element name="nCGI" type="nn:Ncgi"/>

 <element name="pLMNIdList" type="en:PLMNIdList"/>

 <element name="sNSSAIList" type="ngc:SnssaiList" minOccurs="0"/>

 <element name="nRFrequencyRef" type="xn:dn" minOccurs="0"/>

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 </element>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:VsDataContainer"/>

 <element ref="nRCellRelation"/>

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 </choice>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:MeasurementControl"/>

 </choice>

 <choice minOccurs="0" maxOccurs="1">

 <element ref="sp:EnergySavingProperties"/>

 <element ref="sp:ESPolicies"/>

 </choice>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref= "RRMPolicyRatio"/>

 </choice>

 </sequence>

 </extension>

 </complexContent>

 </complexType>

</element>

<element name="NRCellDU">

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 <complexContent>

 <extension base="xn:NrmClass">

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 <element name="peeParametersList" type="xn:peeParametersListType" minOccurs="0"/>

 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction-->

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 <element name="operationalState" type="sm:operationalStateType" minOccurs="0"/>

 <element name="administrativeState" type="sm:administrativeStateType" minOccurs="0"/>

 <element name="cellState" type="nn:CellState"/>

 <element name="pLMNIdList" type="en:PLMNIdList"/>

 <element name="sNSSAIList" type="ngc:SnssaiList" minOccurs="0"/>

 <element name="nRpci" type="nn:Pci" />

 <element name="nRTac" type="nn:NrTac" />

 <element name="arfcnDL" type="integer"/>

 <element name="arfcnUL" type="integer" minOccurs="0"/>

 <element name="arfcnSUL" type="integer" minOccurs="0"/>

 <element name="bSChannelBwDL" type="integer"/>

 <element name="bSChannelBwUL" type="integer" minOccurs="0"/>

 <element name="bSChannelBwSUL" type="integer" minOccurs="0"/>

 <element name="nRFrequencyRef" type="xn:dn" minOccurs="0"/>

 <element name="nRSectorCarrierRef" type="xn:dn" minOccurs="0"/>

 <element name="bWPRef" type="xn:dn" minOccurs="0"/>

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 </complexType>

 </element>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:VsDataContainer"/>

 </choice>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:MeasurementControl"/>

 </choice>

 <choice minOccurs="0" maxOccurs="1">

 <element ref="sp:EnergySavingProperties"/>

 <element ref="sp:ESPolicies"/>

 </choice>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="RRMPolicyRatio"/>

 </choice>

 </sequence>

 </extension>

 </complexContent>

 </complexType>

</element>

<element name="NRSectorCarrier">

 <complexType>

 <complexContent>

 <extension base="xn:NrmClass">

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 <element name="vnfParametersList" type="xn:vnfParametersListType" minOccurs="0"/>

 <element name="peeParametersList" type="xn:peeParametersListType" minOccurs="0"/>

 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction-->

 <element name="txDirection" type="nn:TxDirection"/>

 <element name="configuredMaxTxPower" type="integer"/>

 <element name="arfcnDL" type="integer" minOccurs="0"/>

 <element name="arfcnUL" type="integer" minOccurs="0"/>

 <element name="bSChannelBwDL" type="integer" minOccurs="0"/>

 <element name="bSChannelBwUL" type="integer" minOccurs="0"/>

 <element name="sectorEquipmentFunctionRef" type="xn:dn" minOccurs="0"/>

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 </complexType>

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 <choice minOccurs="0" maxOccurs="unbounded">

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 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:VsDataContainer"/>

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 <choice minOccurs="0" maxOccurs="1">

 <element ref="sp:EnergySavingProperties"/>

 <element ref="sp:ESPolicies"/>

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 </extension>

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 </complexType>

</element>

<element name="BWP">

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 <element name="peeParametersList" type="xn:peeParametersListType" minOccurs="0"/>

 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

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 <element name="bwpContext" type="nn:BwpContext"/>

 <element name="isInitialBwp" type="nn:IsInitialBwp"/>

 <element name="subCarrierSpacing" type="integer"/>

 <element name="cyclicPrefix" type="nn:CyclicPrefix"/>

 <element name="startRB" type="integer"/>

 <element name="numberOfRBs" type="integer"/>

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 <element name="coverageShape" type="coverageShapeType" minOccurs="0"/>

 <element name="digitalTilt" type="beamTilt" minOccurs="0"/>

 <element name="digitalAzimuth" type="beamAzimuth" minOccurs="0"/>

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 <choice minOccurs="0" maxOccurs="1">

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 <!-- End of inherited attributes from EP\_RP -->

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 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction -->

 <element name="nRTCI" type="nn:Nrtci"/>

 <element name="cellIndividualOffset" type="en:CellIndividualOffset"/>

 <element name="nRFreqRelationRef" type="xn:dn" minOccurs="0"/>

 <element name="adjacentNRCellRef" type="xn:dn" minOccurs="0"/>

 <element name="isRemoveAllowed" type="boolean" minOccurs="0"/>

 <element name="isHOAllowed" type="boolean" minOccurs="0"/>

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 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:VsDataContainer"/>

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 <choice minOccurs="0" maxOccurs="1">

 <element ref="sp:EnergySavingProperties"/>

 <element ref="sp:ESPolicies"/>

 </choice>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:MeasurementControl"/>

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 <element name="peeParametersList" type="xn:peeParametersListType" minOccurs="0"/>

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 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

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 <element name="offsetMO" type="en:qOffsetRangeList"/>

 <element name="blackListEntry" type="en:blackListEntry" minOccurs="0"/>

 <element name="blackListEntryIdleMode" type="en:blackListEntryIdleMode" minOccurs="0"/>

 <element name="cellReselectionPriority" type="en:cellReselectionPriority"/>

 <element name="cellReselectionSubPriority" type="en:cellReselectionSubPriority"/>

 <element name="pMax" type="en:PMaxRangeType" minOccurs="0"/>

 <element name="qOffserFreq" type="nn:qOffserFreq" minOccurs="0"/>

 <element name="qQualMin" type="en:qQualMin" minOccurs="0"/>

 <element name="qRxLevMin" type="en:qRxLevMin" minOccurs="0"/>

 <element name="threshXHighP" type="en:threshxhighp" minOccurs="0"/>

 <element name="threshXHighQ" type="en:threshxhighq" minOccurs="0"/>

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 <element name="tReselectionNr" type="nn:Treselectionnr" minOccurs="0"/>

 <element name="tReselectionNRSfHigh" type="nn:Treselectionnrsfhigh" minOccurs="0"/>

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 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!--End of inherited attributes from ManagedFunction -->

 <element name="nCGI" type="nn:Ncgi"/>

 <element name="pLMNIdList" type="en:PLMNIdList"/>

 <element name="nRPCI" type="nn:Nrpci" minOccurs="0"/>

 <element name="nRFrequencyRef" type="xn:dn" minOccurs="0"/>

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 <element ref="sp:EnergySavingProperties"/>

 <element ref="sp:ESPolicies"/>

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 <element name="resourceType" type="ResourceType" />

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 <element name="rRMPolicyMarginMaxRatio" type="integer" minOccurs="0"/>

 <element name="rRMPolicyMinRatio" type="integer" minOccurs="1"/>

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 <element ref="sp:EnergySavingProperties"/>

 <element ref="sp:ESPolicies"/>

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<element name="NRFrequency" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">

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 <element name="absoluteFrequencySSB" type="nn:Absolutefrequencyssb" minOccurs="0"/>

 <element name="sSBSubCarrierSpacing" type="nn:Ssbsubcarrierspacing" minOccurs="0"/>

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 </choice>

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 <element ref="xn:MeasurementControl"/>

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<element name="MappingSetIDBackhaulAddress">

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 <extension base="xn:NrmClass">

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 <element name="attributes">

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 <element name="setID" type="nn:SetId" />

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 <element name="nRTac" type="nn:NrTac" />

 <element name="pLMNId" type="en:PLMNId" />

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</element>

</schema>

|  |
| --- |
| **Next Modified Section** |

## F.4.3 XML schema "ngcNrm.xsd"

<?xml version="1.0" encoding="UTF-8"?>

<!--

 3GPP TS 28.541 5GC Network Resource Model

 XML schema definition

 ngcNrm.xsd

-->

<schema

 targetNamespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"

 elementFormDefault="qualified"

 attributeFormDefault="unqualified"

 xmlns="http://www.w3.org/2001/XMLSchema"

 xmlns:xn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm" xmlns:nn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm" xmlns:en="http://www.3gpp.org/ftp/specs/archive/28\_series/28.659#eutranNrm"

xmlns:ngc="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"

>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.659#eutranNrm"/>

<import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm"/>

<!--NGC NRM IM class associated XML elements -->

 <complexType name="aMFIdentifier">

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 <element name="amfRegionId" type="ngc:AmfRegionId"/>

 <element name="amfSetId" type="ngc:AmfSetId"/>

 <element name="amfPointer" type="ngc:AmfPointer"/>

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 <simpleType name="AmfRegionId">

 <restriction base="integer">

 <maxInclusive value="255"/>

 <!-- The AMF Region ID is 8-bitslength, defined in 23.003 -->

 </restriction>

 </simpleType>

 <simpleType name="AmfSetId">

 <restriction base="integer">

 <maxInclusive value="1023"/>

 <!-- The AMF Region ID is 10-bits length, defined in 23.003 -->

 </restriction>

 </simpleType>

 <simpleType name="AmfPointer">

 <restriction base="integer">

 <maxInclusive value="63"/>

 <!-- The AMF Pointer is 6-bits length, defined in 23.003 -->

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 <complexType name="managedNFProfile">

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 <element name="nfInstanceID" type="string"/>

 <element name="nfType" type="ngc:NfType"/>

 <element name="hostAddr" type="ngc:hostAddr"/>

 <element name="authzInfo" type="string" minOccurs="0"/>

 <element name="location" type="string" minOccurs="0"/>

 <element name="capacity" type="ngc:capacity" minOccurs="0"/>

 <element name="nfInfo" type="ngc:Nfinfo"/>

 </sequence>

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 <complexType name="hostAddr">

 <!-- Refer to definitions in TS 28.541-->

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 <element name="fqdn" type="string"/>

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 <simpleType name="capacity">

 <!-- Refer to definitions in TS 28.541-->

 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="65535"/>

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 <!-- Refer to definitions in TS 28.541-->

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 <element name="amfInfo" type="ngc:AmfInfo"/>

 <element name="udrInfo" type="ngc:UdrInfo"/>

 <element name="udmInfo" type="ngc:UdmInfo"/>

 <element name="ausfInfo" type="ngc:AusfInfo"/>

 <element name="upfInfo" type="ngc:UpfInfo"/>

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 <complexType name="NFProfileList">

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 <element name="nfProfile" type="ngc:NfProfile"/>

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 </complexType>

 <complexType name="NfProfile">

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 <element name="nfInstanceID" type="string"/>

 <!-- nfInstanceID is uuid of NF instance -->

 <element name="nfType" type="ngc:NfType"/>

 <element name="sNssais" type="ngc: SnssaiList"/>

 <element name="fqdn" type="string"/>

 <element name="interPlmnFqdn" type="string"/>

 <element name="ipv4Addresses" type="string"/>

 <element name="ipv6Addresses" type="string"/>

 <element name="ipv6Prefixes" type="string"/>

 <element name="capacity" type="string"/>

 <element name="udrInfo" type="ngc:UdrInfo"/>

 <element name="amfInfo" type="ngc:AmfInfo"/>

 <element name="smfInfo" type="ngc:SmfInfo"/>

 <element name="upfInfo" type="ngc:UpfInfo"/>

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 <element name="nFSrvGroupId" type="string"/>

 <element name="smfServingAreas" type="string"/>

 <element name="locality" type="string"/>

 <element name="authzInfo" type="string"/>

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 <element name="serviceInstanceId" type="string"/>

 <element name="serviceName" type="string"/>

 <element name="version" type="string"/>

 <element name="schema" type="string"/>

 <element name="fqdn" type="string"/>

 <element name="interPlmnFqdn" type="string"/>

 <element name="ipEndPoints" type="ngc:IpEndpoints"/>

 <element name="apiPrefix" type="string"/>

 <element name="defaultNotificationSubscriptions" type="ngc:DefaultNotificationSubscriptions"/>

 <element name="allowedPlmns" type="nn:PLMNIdList"/>

 <element name="allowedNfTypes" type="ngc:NFTypeList"/>

 <element name="allowedNssais" type="ngc:Nssai"/>

 <element name="capacity" type="string"/>

 <element name="supportedFeatures" type="string"/>

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 <enumeration value="AMF"/>

 <enumeration value="SMF"/>

 <enumeration value="AUSF"/>

 <enumeration value="NEF"/>

 <enumeration value="PCF"/>

 <enumeration value="SMSF"/>

 <enumeration value="NSSF"/>

 <enumeration value="UDR"/>

 <enumeration value="LMF"/>

 <enumeration value="GMLC"/>

 <enumeration value="5GEIR"/>

 <enumeration value="SEPP"/>

 <enumeration value="UPF"/>

 <enumeration value="N3IWF"/>

 <enumeration value="AF"/>

 <enumeration value="UDSF"/>

 <enumeration value="DN"/>

 </restriction>

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 <element name="ipv6Address" type="string"/>

 <element name="ipv6Prefix" type="string"/>

 <element name="vlanId" type="integer"/>

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</complexType>

<complexType name="RemoteEndPoint">

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 <complexType name="UdrInfo">

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 <element name="supiRange" type="ngc:SupiRange"/>

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 <complexType name="SupiRange">

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 <element name="start" type="string"/>

 <element name="end" type="string"/>

 <element name="pattern" type="string"/>

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 <complexType name="AmfInfo">

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 <complexType name="UpfInfo">

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 <complexType name="UdmInfo">

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 <complexType name="SnssaiUpfInfo">

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 <element name="sNssai" type="ngc:SNssai"/>

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 </complexType>

 <complexType name="DefaultNotificationSubscription">

 <sequence>

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 <element name="callbackUri" type="string"/>

 <element name="n1MessageClass" type="string"/>

 <element name="n2InformationClass" type="string"/>

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 <simpleType name="NotificationType">

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 <enumeration value="N1\_MESSAGES"/>

 <enumeration value="N2\_INFORMATION"/>

 <enumeration value="LOCATION\_NOTIFICATION"/>

 </restriction>

 </simpleType>

 <simpleType name="TransportProtocol">

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 <enumeration value="TCP"/>

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 </simpleType>

 <simpleType name="NfStatus">

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 <enumeration value="REGISTERED"/>

 <enumeration value="SUSPENDED"/>

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 <maxInclusive value="255"/>

 <!-- SST is 1-octets length and defined in TS 23.003 -->

 </restriction>

 </simpleType>

 <simpleType name="Sd">

 <restriction base="integer">

 <maxInclusive value="65535"/>

 <!-- SST is 2-octets length and defined in TS 23.003 -->

 </restriction>

 </simpleType>

 <simpleType name="WeightFactor">

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 </simpleType>

 <simpleType name="SEPPType">

 <restriction base="string">

 <enumeration value="CSEPP"/>

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 <complexType name="SupportedFunc">

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 <element name="policy" type="string" minOccurs="0"/>

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 <enumeration value="DIRECT\_COMMUNICATION\_WITH\_NRF"/>

 <enumeration value="INDIRECT\_COMMUNICATION\_WO\_DEDICATED\_DISCOVERY"/>

 <enumeration value="INDIRECT\_COMMUNICATION\_WITH\_DEDICATED\_DISCOVERY"/>

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 <element name="commModel" type="ngc:CommModel"/>

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 <element name="aMFIdentifier" type="ngc:aMFIdentifier"/>

 <element name="sBIFqdn" type="string"/>

 <element name="snssaiList" type="ngc:SnssaiList" minOccurs="0"/>

 <element name="aMFSet" type="xn:dn" minOccurs="0"/>

 <element name="priority" type="integer" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

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 <element name="commModelList" type="ngc:CommModelList" minOccurs="1"/>

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 <element ref="ngc:EP\_N14"/>

 <element ref="ngc:EP\_N15"/>

 <element ref="ngc:EP\_N17"/>

 <element ref="ngc:EP\_N22"/>

 <element ref="ngc:EP\_N26"/>

 <element ref="ngc:EP\_N20"/>

 <element ref="ngc:EP\_NLS"/>

 <element ref="ngc:EP\_NLG"/>

 <element ref="xn:VsDataContainer"/>

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 <element name="nRTACList" type="ngc:NrTACList"/>

 <element name="sBIFqdn" type="string"/>

 <element name="snssaiList" type="ngc:SnssaiList" minOccurs="0"/>

 <element name="priority" type="integer" minOccurs="0"/>

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 <element ref="ngc:EP\_N7"/>

 <element ref="ngc:EP\_N16"/>

 <element ref="ngc:EP\_S5C"/>

 <element ref="xn:VsDataContainer"/>

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 <element ref="ngc:EP\_S5U"/>

 <element ref="ngc:EP\_N6"/>

 <element ref="xn:VsDataContainer"/>

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 <element ref="ngc:EP\_Rx"/>

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 <element name="remoteAddress" type="ngc:RemoteEndPoint" minOccurs="0"/>

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 </element>

 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:VsDataContainer"/>

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 <element name="EP\_S5U">

 <complexType>

 <complexContent>

 <extension base="xn:NrmClass">

 <sequence>

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 <element name="farEndEntity" type="xn:dn" minOccurs="0"/>

 <element name="userLabel" type="string" minOccurs="0"/>

 <!-- End of inherited attributes from EP\_RP -->

 <element name="localAddress" type="ngc:LocalEndPoint" minOccurs="0"/>

 <element name="remoteAddress" type="ngc:RemoteEndPoint" minOccurs="0"/>

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 <element name="userLabel" type="string" minOccurs="0"/>

 <!-- End of inherited attributes from EP\_RP -->

 <element name="localAddress" type="ngc:LocalEndPoint" minOccurs="0"/>

 <element name="remoteAddress" type="ngc:RemoteEndPoint" minOccurs="0"/>

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 </element>

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 <element ref="xn:VsDataContainer"/>

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 <extension base="xn:NrmClass">

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 <element name="farEndEntity" type="xn:dn" minOccurs="0"/>

 <element name="userLabel" type="string" minOccurs="0"/>

 <!-- End of inherited attributes from EP\_RP -->

 <element name="localAddress" type="ngc:LocalEndPoint" minOccurs="0"/>

 <element name="remoteAddress" type="ngc:RemoteEndPoint" minOccurs="0"/>

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 <element name="farEndEntity" type="xn:dn" minOccurs="0"/>

 <element name="userLabel" type="string" minOccurs="0"/>

 <!-- End of inherited attributes from EP\_RP -->

 <element name="localAddress" type="ngc:LocalEndPoint" minOccurs="0"/>

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 <!-- End of inherited attributes from EP\_RP -->

 <element name="localAddress" type="ngc:LocalEndPoint" minOccurs="0"/>

 <element name="remoteAddress" type="ngc:RemoteEndPoint" minOccurs="0"/>

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 </extension>

 </complexContent>

 </complexType>

 </element>

</schema>

|  |
| --- |
| **Next Modified Section** |

## I.4.3 XML schema "sliceNrm.xsd"

<?xml version="1.0" encoding="UTF-8"?>

<!--

 3GPP TS 28.541 network slice Network Resource Model

 XML schema definition

 sliceNrm.xsd

-->

<schema xmlns="http://www.w3.org/2001/XMLSchema"

xmlns:xn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm"

xmlns:sl="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#sliceNrm"

xmlns:nn="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm"

xmlns:ngc="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"

xmlns:en="http://www.3gpp.org/ftp/specs/archive/28\_series/28.659#eutranNrm"

xmlns:sm="http://www.3gpp.org/ftp/specs/archive/28\_series/28.626#stateManagementIRP"

targetNamespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#sliceNrm" elementFormDefault="qualified">

 <import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.623#genericNrm"/>

 <import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#nrNrm"/>

 <import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.541#ngcNrm"/>

 <import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.659#eutranNrm"/>

 <import namespace="http://www.3gpp.org/ftp/specs/archive/28\_series/28.626#stateManagementIRP"/>

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 </restriction>

 </simpleType>

 <simpleType name="SharingLevel">

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 </restriction>

 </simpleType>

 <simpleType name="Category">

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 <enumeration value="character"/>

 <enumeration value="scalability"/>

 </restriction>

 </simpleType>

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 </simpleType>

 <simpleType name="Exposure">

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 <element name="exposure" type="sl:Exposure" minOccurs="0"/>

</sequence>

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 <simpleType name="DelayToleranceSupport">

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 <enumeration value="SUPPORTED"/>

 </restriction>

 </simpleType>

 <simpleType name="DeterminCommAvailability">

 <restriction base="string">

 <enumeration value="NOT SUPPORTED"/>

 <enumeration value="SUPPORTED"/>

 </restriction>

 </simpleType>

 <simpleType name="UserMgmtOpenSupport">

 <restriction base="string">

 <enumeration value="NOT SUPPORTED"/>

 <enumeration value="SUPPORTED"/>

 </restriction>

 </simpleType>

 <simpleType name="V2XCommModelsV2XMode">

 <restriction base="string">

 <enumeration value="NOT SUPPORTED"/>

 <enumeration value="SUPPORTED BY NR"/>

 </restriction>

 </simpleType>

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 <element name="support" type="sl:DelayToleranceSupport"/>

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 </complexType>

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 <element name="availability" type="sl:DeterminCommAvailability"/>

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 <element name="maxThpt" type="float"/>

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 <complexType name="ULThpt">

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 <element name="maxThpt" type="float" minOccurs="0"/>

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 <complexType name="MaxPktSize">

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 <element name="servAttrCom" type="sl:ServAttrCom"/>

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 <complexType name="SupportedAccessTech">

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 <element name="serviceProfileId" type="string"/>

 <element name="sNSSAIList" type="ngc:SnssaiList"/>

 <element name="pLMNIdList" type="en:PLMNIdList"/>

 <element name="maxNumberofUEs" type="long" minOccurs="0"/>

 <element name="latency" type="integer" minOccurs="0"/>

 <element name="uEMobilityLevel" type="integer" minOccurs="0"/>

 <element name="resourceSharingLevel" type="integer" minOccurs="0"/>

 <element name="sst" type="ngc:Sst"/>

 <element name="availability" type="float" minOccurs="0"/>

 <element name="delayTolerance" type="sl:DelayTolerance" minOccurs="0"/>

 <element name="deterministicComm" type="sl:DeterminComm" minOccurs="0"/>

 <element name="dLThptPerSlice" type="sl:DLThpt" minOccurs="0"/>

 <element name="dLThptPerUE" type="sl:DLThpt" minOccurs="0"/>

 <element name="uLThptPerSlic" type="sl:ULThpt" minOccurs="0"/>

 <element name="uLThptPerUE" type="sl:ULThpt" minOccurs="0"/>

 <element name="maxPktSize" type="sl:MaxPktSize" minOccurs="0"/>

 <element name="maxNumberofConns" type="sl:MaxNumberofConns" minOccurs="0"/>

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 <element name="supportedAccessTech" type="sl:SupportedAccessTech" minOccurs="0"/>

 <element name="userMgmtOpen" type="sl:UserMgmtOpen" minOccurs="0"/>

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 <element name="termDensity" type="sl:TermDensity" minOccurs="0"/>

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 <element name="survivalTime" type="string" minOccurs="0"/>

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 <complexType name="ServiceProfileList">

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 <element name="serviceProfile" type="sl:ServiceProfile"/>

 </sequence>

 </complexType>

 <complexType name="SliceProfile">

 <sequence>

 <element name="sliceProfileId" type="string"/>

 <element name="sNSSAIList" type=" ngc:SnssaiList"/>

 <element name="pLMNIdList" type="en:PLMNIdList"/>

 <element name="perfReq" type="sl:PerfReq"/>

 <element name="maxNumberofUEs" type="long" minOccurs="0"/>

 <element name="coverageAreaTAList" type="ngc:NrTACList" minOccurs="0"/>

 <element name="latency" type="integer" minOccurs="0"/>

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 <!-- Refer to definitions in subclause 8.3.3.2.2 of ETSI NFV IFA013 -->

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 <element name="nsInstanceId" type="string"/>

 <element name="nsName" type="string"/>

 <element name="description" type="string"/>

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 <extension base="xn:NrmClass">

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 <!-- Inherited attributes from SubNetwork -->

 <element name="dnPrefix" type="string" minOccurs="0"/>

 <element name="userLabel" type="string"/>

 <element name="userDefinedNetworkType" type="string"/>

 <element name="setOfMcc" type="string" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!-- End of inherited attributes from SubNetwork -->

 <element name="operationalState" type="sm:operationalStateType"/>

 <element name="administrativeState" type="sm:administrativeStateType"/>

 <element name="serviceProfileList" type="sl:ServiceProfileList"/> <element *name*="networkSliceSubnetRef" *type*="xn:dn"/>

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 <choice minOccurs="0" maxOccurs="unbounded">

 <element ref="xn:MeasurementControl"/>

 </choice>

 </sequence>

 </extension>

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 </complexType>

 </element>

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 <!-- Inherited attributes from SubNetwork -->

 <element name="dnPrefix" type="string" minOccurs="0"/>

 <element name="userLabel" type="string"/>

 <element name="userDefinedNetworkType" type="string"/>

 <element name="setOfMcc" type="string" minOccurs="0"/>

 <element name="measurements" type="xn:MeasurementTypesAndGPsList" minOccurs="0"/>

 <!-- End of inherited attributes from SubNetwork -->

 <element name="operationalState" type="sm:operationalStateType"/>

 <element name="administrativeState" type="sm:administrativeStateType"/>

 <element name="nsInfo" type="sl:NsInfo" minOccurs="0"/>

 <element name="sliceProfileList" type="sl:SliceProfileList"/>

 <element *name*="managedFunctionRef" *type*="xn:dnlist"/>

 <element *name*="networkSliceSubnetRef" *type*="xn:dnlist"/>

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 </complexType>

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| --- |
| **End of Modified Sections** |