**3GPP TSG-SA5 Meeting #129-e *S5-201371***

**Online, , 24 Feb – 4th Mar 2020**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **28.541** | **CR** | **0254** | **rev** | **-** | **Current version:** | **16.3.0** |  |
|  |
| *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 |  |

|  |
| --- |
|  |
| ***Title:***  | Correct CR implementation errors |
|  |  |
| ***Source to WG:*** | Ericsson France S.A.S |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | SON\_5G |  | ***Date:*** | 2020-02-14 |
|  |  |  |  |  |
| ***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:*** | Implementation of CRs S5-197837 and S5-197422 was incorrect. |
|  |  |
| ***Summary of change:*** | Correcting formatting errors. Adding missing addition of previous CR. |
|  |  |
| ***Consequences if not approved:*** | Incorrect formatting would make specification difficult to read. Missing XML code would cause interoperability error. |
|  |  |
| ***Clauses affected:*** | 4.3.2.3, C.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:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

**First change**

#### 4.3.2.3 Attribute constraints

|  |  |
| --- | --- |
| **Name** | **Definition** |
| x2BlackList | Condition: ANR function is supported *AND* Multi-Radio Dual Connectivity with the EPC (see TS 37.340 [9] clause 4.1.2) is supported. |
| x2WhiteList | Condition: ANR function is supported *AND* Multi-Radio Dual Connectivity with the EPC (see TS 37.340 [9] clause 4.1.2) is supported. |
| xnBlackList | Condition: ANR function is supported. |
| xnWhiteList | Condition: ANR function is supported. |
| x2XnHOBlackList | Condition: ANR function is supported. |

**Next change**

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"/>

<simpleType name="GnbId">

 <restriction base="unsignedLong">

 <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>

</simpleType>

<simpleType name="GnbName">

 <restriction base="string">

 <minLength value="1"/>

 <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"/>

 <enumeration value="dB-20"/>

 <enumeration value="dB-18"/>

 <enumeration value="dB-16"/>

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 <enumeration value="dB20"/>

 <enumeration value="dB22"/>

 <enumeration value="dB24"/>

 </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">

 <restriction base="integer">

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<simpleType name="Threshxlowp">

 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="62"/>

 </restriction>

</simpleType>

<simpleType name="Threshxlowq">

 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="62"/>

 </restriction>

</simpleType>

<simpleType name="Treselectionnr">

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 <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">

 <restriction base="string">

 <enumeration value="25"/>

 <enumeration value="50"/>

 <enumeration value="75"/>

 <enumeration value="100"/>

 </restriction>

</simpleType>

<simpleType name="Absolutefrequencyssb">

 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="3279165"/>

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</simpleType>

<simpleType name="Ssbsubcarrierspacing">

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 <enumeration value="240"/>

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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">

 <restriction base="integer">

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</simpleType>

<simpleType name="beamHorizWidth">

 <restriction base="integer">

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<simpleType name="beamVertWidth">

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 <restriction base="integer">

 <minInclusive value="0"/>

 <maxInclusive value="65535"/>

 </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="RRMPolicyRation2">

 <sequence>

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

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

 <element name="quotaType" type="QuotaType"/>

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

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

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

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

 </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">

 <sequence>

 <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>

<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"/>

 </all>

 </complexType>

 </element>

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

 <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">

 <complexType>

 <complexContent>

 <extension base="xn:NrmClass">

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 <!-- Inherited attributes from ManagedFunction -->

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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="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"/>

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

 </all>

 </complexType>

 </element>

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

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

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

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

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

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

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

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

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

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

 <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="rRMPolicyType" type="integer" minOccurs="0"/>

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

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

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

 <element name="rRMPolicyRatio2" type="RRMPolicyRation2" minOccurs="0"/>

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

 <element ref="xn:VsDataContainer"/>

 <element ref="nRCellRelation"/>

 <element ref="nRFreqRelation"/>

 <element ref="eUtranCellRelation"/>

 <element ref="eUtranFreqRelation"/>

 </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>

 </sequence>

 </extension>

 </complexContent>

 </complexType>

</element>

<element name="NRCellDU">

 <complexType>

 <complexContent>

 <extension base="xn:NrmClass">

 <sequence>

 <element name="attributes">

 <complexType>

 <all>

 <!-- Inherited attributes from ManagedFunction -->

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

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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" minOccurs="0"/>

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

 <element ref="xn:MeasurementControl"/>

 </choice>

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

 <element ref="sp:EnergySavingProperties"/>

 <element ref="sp:ESPolicies"/>

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 </extension>

 </complexContent>

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</element>

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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>

 </element>

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

 <element ref="xn:MeasurementControl"/>

 </choice>

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