**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 can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) Rel-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">

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<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"/>

<enumeration value="dB-14"/>

<enumeration value="dB-12"/>

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<enumeration value="dB6"/>

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<enumeration value="dB12"/>

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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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<maxInclusive value="0"/>

</restriction>

</simpleType>

<simpleType name="qRxLevMin">

<restriction base="integer">

<minInclusive value="-140"/>

<maxInclusive value="-44"/>

</restriction>

</simpleType>

<simpleType name="Thresxhighp">

<restriction base="integer">

<minInclusive value="0"/>

<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">

<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">

<restriction base="string">

<enumeration value="25"/>

<enumeration value="50"/>

<enumeration value="75"/>

<enumeration value="100"/>

</restriction>

</simpleType>

<simpleType name="Absolutefrequencyssb">

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<simpleType name="Ssbsubcarrierspacing">

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<enumeration value="240"/>

</restriction>

</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">

<minInclusive value="-900"/>

<maxInclusive value="900"/>

</restriction>

</simpleType>

<simpleType name="beamHorizWidth">

<restriction base="integer">

<minInclusive value="0"/>

<maxInclusive value="3599"/>

</restriction>

</simpleType>

<simpleType name="beamVertWidth">

<restriction base="integer">

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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"/>

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

<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">

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<element name="attributes">

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<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>

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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="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"/>

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<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"/>

</choice>

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

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</extension>

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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 "/>

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

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

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<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"/>

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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="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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<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>

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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="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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</element>

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

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</choice>

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

<element ref="xn:MeasurementControl"/>

</choice>

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

<element ref="sp:EnergySavingProperties"/>

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