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Technical Specification

**3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
Telecommunication management;
Configuration Management (CM);
UTRAN network resources Integration Reference Point (IRP);
Bulk CM eXtensible Markup Language (XML)
file format definition
(Release 9)**

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Postal address

3GPP support office address
650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet
http://www.3gpp.org

Contents

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x   the first digit:

1   presented to TSG for information;

2   presented to TSG for approval;

3   or greater indicates TSG approved document under change control.

y   the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z   the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

32.641:   Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Requirements

32.642:   Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)

32.643:   Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)

32.645:   Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition

Configuration Management (CM), in general, provides the operator with the ability to assure correct and effective operation of the 3G network as it evolves. CM actions have the objective to control and monitor the actual configuration on the Network Elements (NEs) and Network Resources (NRs), and they may be initiated by the operator or by functions in the Operations Systems (OSs) or NEs.

CM actions may be requested as part of an implementation programme (e.g. additions and deletions), as part of an optimisation programme (e.g. modifications), and to maintain the overall Quality of Service (QoS). The CM actions are initiated either as single actions on single NEs of the 3G network, or as part of a complex procedure involving actions on many resources/objects in one or several NEs.

1 Scope

The present document provides the NRM-specific part related to the UTRAN Network Resources IRP NRM [1] of the XML file format definition for the Bulk Configuration Management IRP IS [2].

The main part of this XML file format definition is provided by 3GPP TS 32.615 [3].

Bulk CM XML file formats are based on XML [4], XML Schema [5] [6] [7] and XML Namespace [8] standards.

This File Format Definition specification is related to 3GPP TS 32.642 V9.3.X.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]   3GPP TS 32.642: "Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Network Resource Models (NRM)".

[2]   3GPP TS 32.612: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Information Service (IS)".

[3]   3GPP TS 32.615: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); eXtensible Markup Language (XML) file format definition".

[4]   W3C REC-xml-20001006: "Extensible Markup Language (XML) 1.0 (Second Edition)".

[5]   W3C REC-xmlschema-0-20010502: "XML Schema Part 0: Primer".

[6]   W3C REC-xmlschema-1-20010502: "XML Schema Part 1: Structures".

[7]   W3C REC-xmlschema-2-20010502: "XML Schema Part 2: Datatypes".

[8]   W3C REC-xml-names-19990114: "Namespaces in XML".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

XML file: file containing an XML document

XML document: composed of the succession of an optional XML declaration followed by a root XML element

NOTE: See [4]; in the scope of the present document.

XML declaration: it specifies the version of XML being used

NOTE: See [4].

XML element: has a type, is identified by a name, may have a set of XML attribute specifications and is either composed of the succession of an XML start-tag followed by the XML content of the XML element followed by an

XML end-tag, or composed simply of an XML empty-element tag; each XML element may contain other XML elements

NOTE: See [4].

empty XML element: having an empty XML content; an empty XML element still possibly has a set of XML attribute specifications; an empty XML element is either composed of the succession of an XML start-tag directly followed by an XML end-tag, or composed simply of an XML empty-element tag

NOTE: See [4].

XML content (of an XML element): empty if the XML element is simply composed of an XML empty-element tag; otherwise the part, possibly empty, of the XML element between its XML start-tag and its XML end-tag

XML start-tag: the beginning of a non-empty XML element is marked by an XML start-tag containing the name and the set of XML attribute specifications of the XML element

NOTE: See [4].

XML end-tag: the end of a non-empty XML element is marked by an XML end-tag containing the name of the XML element

NOTE: See [4].

XML empty-element tag: composed simply of an empty-element tag containing the name and the set of XML attribute specifications of the XML element

NOTE: See [4].

XML attribute specification: has a name and a value

NOTE: See [4].

DTD: defines structure and content constraints to be respected by an XML document to be valid with regard to this DTD

NOTE: See [4].

XML schema: more powerful than a DTD, an XML schema defines structure and content constraints to be respected by an XML document to conform with this XML schema; through the use of XML namespaces several XML schemas can be used together by a single XML document; an XML schema is itself also an XML document that shall conform with the XML schema for XML schemas

NOTE: See [5], [6] and [7].

XML namespace: enables qualifying element and attribute names used in XML documents by associating them with namespaces identified by different XML schemas

NOTE: See [8], in the scope of the present document.

XML complex type: defined in an XML schema; cannot be directly used in an XML document; can be the concrete type or the derivation base type for an XML element type or for another XML complex type; ultimately defines constraints for an XML element on its XML attribute specifications and/or its XML content

NOTE: See [5], [6] and [7].

XML element type: declared by an XML schema; can be directly used in an XML document; as the concrete type of an XML element, directly or indirectly defines constraints on its XML attribute specifications and/or its XML content; can also be the concrete type or the derivation base type for another XML element type

NOTE: See [5], [6] and [7].

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CM	Configuration Management
DTD	Document Type Definition
EDGE	Enhanced Data for GSM Evolution
GERAN	GSM/EDGE Radio Access Network
GSM	Global System for Mobile communication
IRP	Integration Reference Point
IS	Information Service
NRM	Network Resource Model
UMTS	Universal Mobile Telecommunications System
UTRAN	Universal Terrestrial Radio Access Network
XML	eXtensible Markup Language

4 Structure and content of configuration data XML files

The overall description of the file format of configuration data XML files is provided by 3GPP TS 32.615 [3].

Annex A of the present document defines the NRM-specific XML schema `utranNrm.xsd` for the UTRAN Network Resources IRP NRM defined in 3GPP TS 32.642 [1].

XML schema `utranNrm.xsd` explicitly declares NRM-specific XML element types for the related NRM.

The definition of those NRM-specific XML element types complies with the generic mapping rules defined in 3GPP TS 32.615 [3].

Annex A (normative):
Configuration data file NRM-specific XML schema (file name "`utranNrm.xsd`")

The following XML schema `utranNrm.xsd` is the NRM-specific schema for the UTRAN Network Resources IRP NRM defined in 3GPP TS 32.642 [1]:

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

<!--
  3GPP TS 32.645 UTRAN Network Resources IRP
  Bulk CM Configuration data file NRM-specific XML schema
  utranNrm.xsd
-->

<schema
  targetNamespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.645#utranNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:un=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.645#utranNrm"
  xmlns:gn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.655#geranNrm"
  xmlns:sm=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.675#stateManagementIRP"
  xmlns:en=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.765#eutranNrm"
>

  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  />
  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.655#geranNrm"
  />
  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.675#stateManagementIRP"
  />
  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.765#eutranNrm"
  />
  <!-- UTRAN Network Resources IRP NRM attribute related XML types -->

  <simpleType name="localCellId">
    <restriction base="integer">
      <minInclusive value="0"/>
      <maxInclusive value="268435455"/>
    </restriction>
  </simpleType>

  <simpleType name="cId">
    <restriction base="integer">
      <minInclusive value="0"/>
      <maxInclusive value="65535"/>
    </restriction>
  </simpleType>

  <simpleType name="uarfcnAnyMode">
    <restriction base="integer">
      <minInclusive value="0"/>
      <maxInclusive value="16383"/>
    </restriction>
  </simpleType>

  <simpleType name="primaryScramblingCode">
    <restriction base="integer">
```

```
        <minInclusive value="0"/>
        <maxInclusive value="511"/>
      </restriction>
  </simpleType>

  <simpleType name="primaryCpichPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-10"/>
      <maxInclusive value="+50"/>
    </restriction>
  </simpleType>

  <simpleType name="maximumTransmissionPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="0"/>
      <maxInclusive value="50"/>
    </restriction>
  </simpleType>

  <simpleType name="primarySchPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-35"/>
      <maxInclusive value="+15"/>
    </restriction>
  </simpleType>

  <simpleType name="secondarySchPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-35"/>
      <maxInclusive value="+15"/>
    </restriction>
  </simpleType>

  <simpleType name="bchPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-35"/>
      <maxInclusive value="+15"/>
    </restriction>
  </simpleType>

  <simpleType name="aichPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-22"/>
      <maxInclusive value="+5"/>
    </restriction>
  </simpleType>

  <simpleType name="fpachPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-150"/>
      <maxInclusive value="+400"/>
    </restriction>
  </simpleType>

  <simpleType name="pichPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-10"/>
      <maxInclusive value="+5"/>
    </restriction>
  </simpleType>

  <simpleType name="pchPower">
    <restriction base="decimal">
      <fractionDigits value="1"/>
      <minInclusive value="-350"/>
      <maxInclusive value="+150"/>
    </restriction>
  </simpleType>
```

```
<simpleType name="fachPower">
  <restriction base="decimal">
    <fractionDigits value="1"/>
    <minInclusive value="-350"/>
    <maxInclusive value="+150"/>
  </restriction>
</simpleType>

<simpleType name="lac">
  <union>
    <simpleType>
      <restriction base="integer">
        <minInclusive value="1"/>
        <maxInclusive value="65533"/>
      </restriction>
    </simpleType>
    <simpleType>
      <restriction base="integer">
        <minInclusive value="65535"/>
        <maxInclusive value="65535"/>
      </restriction>
    </simpleType>
  </union>
</simpleType>

<simpleType name="rac">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="255"/>
  </restriction>
</simpleType>

<simpleType name="sac">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="65535"/>
  </restriction>
</simpleType>

<complexType name="uraList">
  <sequence>
    <element name="ura" maxOccurs="8">
      <simpleType>
        <restriction base="integer">
          <minInclusive value="0"/>
          <maxInclusive value="65535"/>
        </restriction>
      </simpleType>
    </element>
  </sequence>
</complexType>

<simpleType name="cellMode">
  <restriction base="string">
    <enumeration value="FDDMode"/>
    <enumeration value="3-84McpsTDDMode"/>
    <enumeration value="1-28McpsTDDMode"/>
  </restriction>
</simpleType>

<simpleType name="cellParameterId">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="127"/>
  </restriction>
</simpleType>

<simpleType name="primaryCcpchPower">
  <restriction base="decimal">
    <fractionDigits value="1"/>
    <minInclusive value="-15"/>
    <maxInclusive value="+40"/>
  </restriction>
</simpleType>

<simpleType name="dwPchPower">
  <restriction base="decimal">
    <fractionDigits value="1"/>
```

```
        <minInclusive value="-15"/>
        <maxInclusive value="+40"/>
    </restriction>
</simpleType>

<simpleType name="schPower">
    <restriction base="decimal">
        <fractionDigits value="1"/>
        <minInclusive value="-35"/>
        <maxInclusive value="+15"/>
    </restriction>
</simpleType>

<complexType name="timeSlotLCRList">
    <sequence>
        <element name="timeSlot" maxOccurs="7">
            <complexType>
                <all>
                    <element name="timeSlotId" minOccurs="1">
                        <simpleType>
                            <restriction base="integer">
                                <minInclusive value="0"/>
                                <maxInclusive value="6"/>
                            </restriction>
                        </simpleType>
                    </element>
                    <element name="timeSlotDirection" minOccurs="1">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="UL"/>
                                <enumeration value="DL"/>
                            </restriction>
                        </simpleType>
                    </element>
                    <element name="timeSlotStatus" minOccurs="1">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="Active"/>
                                <enumeration value="Not-Active"/>
                            </restriction>
                        </simpleType>
                    </element>
                </all>
            </complexType>
        </element>
    </sequence>
</complexType>

<complexType name="timeSlotHCRList">
    <sequence>
        <element name="timeSlot" maxOccurs="15">
            <complexType>
                <all>
                    <element name="timeSlotId" minOccurs="1">
                        <simpleType>
                            <restriction base="integer">
                                <minInclusive value="0"/>
                                <maxInclusive value="14"/>
                            </restriction>
                        </simpleType>
                    </element>
                    <element name="timeSlotDirection" minOccurs="1">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="UL"/>
                                <enumeration value="DL"/>
                            </restriction>
                        </simpleType>
                    </element>
                    <element name="timeSlotStatus" minOccurs="1">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="Active"/>
                                <enumeration value="Not-Active"/>
                            </restriction>
                        </simpleType>
                    </element>
                </all>
```

```
            </complexType>
        </element>
    </sequence>
</complexType>

<simpleType name="angleValue">
    <restriction base="short">
        <minInclusive value="0"/>
        <maxInclusive value="3600"/>
    </restriction>
</simpleType>

<simpleType name="retGroupName">
    <restriction base="string">
        <maxLength value="80"/>
    </restriction>
</simpleType>

<simpleType name="bearing">
    <restriction base="short">
        <minInclusive value="0"/>
        <maxInclusive value="360"/>
    </restriction>
</simpleType>

<simpleType name="restrictionStateIndicator">
    <restriction base="string">
        <enumeration value="cellReservedForOperatorUse"/>
        <enumeration value="cellAccessible"/>
     </restriction>
</simpleType>

<simpleType name="dpcModeChangeSupport">
    <restriction base="string">
        <enumeration value="dpcModeChangeSupported"/>
        <enumeration value="dpcModeChangeNotSupported"/>
    </restriction>
</simpleType>

<simpleType name="sttdSupport">
    <restriction base="string">
        <enumeration value="active"/>
        <enumeration value="inactive"/>
     </restriction>
</simpleType>

<simpleType name="closedLoopMode1">
    <restriction base="string">
        <enumeration value="closedLoopMode1Supported"/>
        <enumeration value="closedLoopMode1NotSupported"/>
    </restriction>
</simpleType>

<simpleType name="frameOffset">
    <restriction base="integer">
        <minInclusive value="0"/>
        <maxInclusive value="255"/>
    </restriction>
</simpleType>

<simpleType name="cellIndividualOffset">
    <restriction base="decimal">
        <fractionDigits value="1"/>
        <minInclusive value="-10"/>
        <maxInclusive value="10"/>
    </restriction>
</simpleType>

<simpleType name="hcsPrio">
    <restriction base="integer">
        <minInclusive value="0"/>
        <maxInclusive value="7"/>
    </restriction>
</simpleType>

<simpleType name="maximumAllowedUlTxPower">
    <restriction base="integer">
```

```
      </restriction>
    </simpleType>

    <simpleType name="qrxlevMin">
      <restriction base="integer">
        <minInclusive value="-115"/>
        <maxInclusive value="-25"/>
      </restriction>
    </simpleType>

    <simpleType name="deltaQrxlevmin">
      <restriction base="integer">
        <minInclusive value="-4"/>
        <maxInclusive value="-2"/>
      </restriction>
    </simpleType>

    <simpleType name="qhcs">
      <restriction base="integer">
        <minInclusive value="0"/>
        <maxInclusive value="99"/>
      </restriction>
    </simpleType>

    <simpleType name="penaltyTime">
      <restriction base="integer">
        <minInclusive value="0"/>
        <maxInclusive value="60"/>
      </restriction>
    </simpleType>

    <simpleType name="referenceTimeDifferenceToCell">
      <restriction base="integer">
       </restriction>
    </simpleType>

    <simpleType name="readSFNIndicator">
      <restriction base="string">
        <enumeration value="TRUE"/>
        <enumeration value="FALSE"/>
      </restriction>
    </simpleType>

    <complexType name="snaList">
      <sequence>
        <element name="snac" maxOccurs="65535">
          <simpleType>
            <restriction base="integer">
              <minInclusive value="1"/>
              <maxInclusive value="65536"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
    </complexType>

    <complexType name="snaInformation">
      <sequence>
        <element name="mcc">
          <simpleType>
            <restriction base="integer">
              <minInclusive value="0"/>
              <maxInclusive value="999"/>
            </restriction>
          </simpleType>
        </element>
        <element name="mnc">
          <simpleType>
            <restriction base="integer">
              <enumeration value="0"/>
              <enumeration value="999"/>
            </restriction>
          </simpleType>
        </element>
        <element name="snaList" type="un:snaList"/>
      </sequence>
    </complexType>
```

```
<simpleType name="qqualMin">
  <restriction base="integer">
    <minInclusive value="-24"/>
    <maxInclusive value="0"/>
  </restriction>
</simpleType>

<simpleType name="temporaryOffset1">
  <restriction base="integer">
    <minInclusive value="3"/>
    <maxInclusive value="21"/>
  </restriction>
</simpleType>

<simpleType name="temporaryOffset2">
  <restriction base="integer">
    <minInclusive value="2"/>
    <maxInclusive value="12"/>
  </restriction>
</simpleType>

<simpleType name="txDiversityIndicator">
  <restriction base="string">
    <enumeration value="none"/>
    <enumeration value="PrimaryCpichBroadcastFrom2Antennas"/>
    <enumeration value="SttdAppliedToPrimaryCCPCH"/>
    <enumeration value="TstdAppliedToPrimarySchAndSecondarySch"/>
  </restriction>
</simpleType>

<complexType name="cellCapabilityContainerFDD">
  <complexContent>
    <extension base="xn:NrmClass">
      <sequence>
        <element name="attributes" minOccurs="0">
          <complexType>
            <all>
              <element name="Flexible_Hard_Split_Support_Indicator" minOccurs="0"/>
              <element name="Delayed_Activation_Support_Indicator" minOccurs="0"/>
              <element name="HS_DSCH_Support_Indicator" minOccurs="0"/>
              <element name="DSCH_Support_Indicator" minOccurs="0"/>
              <element name="F_DPCH_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_TTI2ms_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_2sf2_and_all_inferior_SFs_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_2sf4_and_all_inferior_SFs_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_sf4_and_all_inferior_SFs_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_sf8_and_all_inferior_SFs_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_HARQ_IR_Combining_Support_Indicator" minOccurs="0"/>
              <element name="E_DCH_HARQ_Chase_Combining_Support_Indicator" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="xn:VsDataContainer"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>

<simpleType name="sctdIndicator">
  <restriction base="string">
    <enumeration value="active"/>
    <enumeration value="inactive"/>
  </restriction>
</simpleType>

<simpleType name="dpchConstantValue">
  <restriction base="integer">
    <minInclusive value="-10"/>
    <maxInclusive value="10"/>
  </restriction>
</simpleType>

<complexType name="cellCapabilityContainerTDD">
  <complexContent>
    <extension base="xn:NrmClass">
```

```
      <sequence>
        <element name="attributes" minOccurs="0">
          <complexType>
            <all>
              <element name="Delayed_Activation_Support_Indicator" minOccurs="0"/>
              <element name="HS_DSCH_Support_Indicator" minOccurs="0"/>
              <element name="DSCH_Support_Indicator" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="xn:VsDataContainer"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>

<simpleType name="tstdIndicator">
  <restriction base="string">
    <enumeration value="active"/>
    <enumeration value="inactive"/>
  </restriction>
</simpleType>

<simpleType name="timeSlotForSch">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="14"/>
  </restriction>
</simpleType>

<simpleType name="schTimeSlot">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="6"/>
  </restriction>
</simpleType>

<simpleType name="syncCase">
  <restriction base="string">
    <enumeration value="SCH and PCCPCH allocated in a single TS"/>
    <enumeration value="SCH and PCCPCH allocated in two TS, TS#k and TS#k+8"/>
  </restriction>
</simpleType>

<simpleType name="hsFlag">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="1"/>
  </restriction>
</simpleType>

<simpleType name="hsEnable">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="1"/>
  </restriction>
</simpleType>

<simpleType name="numOfHspdschs">
  <restriction base="integer">
    <minInclusive value="0"/>
    <maxInclusive value="95"/>
  </restriction>
</simpleType>

<simpleType name="numOfHsscchs">
  <restriction base="integer">
    <minInclusive value="1"/>
    <maxInclusive value="32"/>
  </restriction>
</simpleType>

<simpleType name="tmaFunctionFlag">
  <restriction base="unsignedShort">
    <minInclusive value="0"/>
    <maxInclusive value="1"/>
```

```
        </restriction>
    </simpleType>

    <simpleType name="tmaStateFlag">
      <restriction base="unsignedShort">
        <minInclusive value="0"/>
        <maxInclusive value="1"/>
      </restriction>
    </simpleType>

    <simpleType name="fourOctets">
      <restriction base="hexBinary">
        <length value="4"/>
      </restriction>
    </simpleType>

    <simpleType name="eightOctets">
      <restriction base="hexBinary">
        <length value="8"/>
      </restriction>
    </simpleType>

    <complexType name="uarfcnLCRList">
      <sequence>
        <element name="uarfcnLCR" maxOccurs="11">
          <complexType>
            <all>
              <element name="uarfcn" type="un:uarfcnAnyMode" minOccurs="1"/>
              <element name="timeSlotLCRList" type="un:timeSlotLCRList" minOccurs="0"/>

            </all>
          </complexType>
        </element>
      </sequence>
    </complexType>

    <!-- UTRAN Network Resources IRP NRM class associated XML elements -->

    <element
      name="RncFunction"
      substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
    >
      <complexType>
        <complexContent>
          <extension base="xn:NrmClass">
            <sequence>
              <element name="attributes" minOccurs="0">
                <complexType>
                  <all>
                    <element name="userLabel" type="string" minOccurs="0"/>
                    <element name="mcc" type="string" minOccurs="0"/>
                    <element name="mnc" type="string" minOccurs="0"/>
                    <element name="rncId" type="string" minOccurs="0"/>
                  </all>
                </complexType>
              </element>
              <choice minOccurs="0" maxOccurs="unbounded">
                <element ref="un:UtranCellFDD"/>
                <element ref="un:UtranCellTDDLcr"/>
                <element ref="un:UtranCellTDDHcr"/>
                <element ref="un:IubLink"/>
                <element ref="un:RncFunctionOptionallyContainedNrmClass"/>
                <element ref="xn:VsDataContainer"/>
              </choice>
            </sequence>
          </extension>
        </complexContent>
      </complexType>
    </element>

    <element
      name="NodeBFunction"
      substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
    >
      <complexType>
        <complexContent>
          <extension base="xn:NrmClass">
            <sequence>
```

```
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" type="string" minOccurs="0"/>
                  <element name="nodeBFunctionIubLink" type="string" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="un:NodeBFunctionOptionallyContainedNrmClass"/>
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element name="UtranGenericCell" abstract="true">
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" type="string" minOccurs="0"/>
                  <element name="cId" type="un:cId" minOccurs="0"/>
                  <element name="localCellId" type="un:localCellId" minOccurs="0"/>
                  <element name="maximumTransmissionPower"
                          type="un:maximumTransmissionPower" minOccurs="0"/>
                  <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                  <element name="pichPower" type="un:pichPower" minOccurs="0"/>
                  <element name="pchPower" type="un:pchPower" minOccurs="0"/>
                  <element name="fachPower" type="un:fachPower" minOccurs="0"/>
                  <element name="lac" type="un:lac" minOccurs="0"/>
                  <element name="rac" type="un:rac" minOccurs="0"/>
                  <element name="sac" type="un:sac" minOccurs="0"/>
                  <element name="uraList" type="un:uraList" minOccurs="0"/>
                  <element name="utranCellIubLink" type="xn:dn" minOccurs="0"/>
                  <element name="retAntennaFunctionList" type="xn:dnList" minOccurs="0"/>
                  <element name="tmaFunctionList" type="xn:dnList" minOccurs="0"/>
                  <element name="operationalState"
                          type="sm:operationalStateType" minOccurs="0"/>
                  <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                  <element name="hsEnable" type="un:hsEnable" minOccurs="0"/>
                  <element name="numOfHspdschs" type="un:numOfHspdschs" minOccurs="0"/>
                  <element name="numOfHsscchs" type="un:numOfHsscchs" minOccurs="0"/>
                  <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                  <element name="cellIndividualOffset"
                          type="un:cellIndividualOffset" minOccurs="0"/>
                  <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                  <element name="maximumAllowedUlTxPower"
                          type="un:maximumAllowedUlTxPower" minOccurs="0"/>
                  <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                  <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                  <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                  <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                  <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                  <element name="referenceTimeDifferenceToCell"
                          type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                  <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                  <element name="restrictionStateIndicator"
                          type="un:restrictionStateIndicator" minOccurs="0"/>
                  <element name="dpcModechangeSupportIndicator"
                          type="un:dpcModeChangeSupport" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="un:UtranRelation"/>
              <element ref="gn:GsmRelation"/>
              <element ref="en:EUtranRelation"/>
              <element ref="un:UtranGenericCellOptionallyContainedNrmClass"/>
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
```

```
            </complexContent>
        </complexType>
    </element>

    <element name="UtranCellFDD">
        <complexType>
            <complexContent>
                <extension base="xn:NrmClass">
                    <sequence>
                        <element name="attributes" minOccurs="0">
                            <complexType>
                                <all>

                                    <!-- Inherited attributes from UtranGenericCell -->
                                    <element name="userLabel" type="string" minOccurs="0"/>
                                    <element name="cId" type="un:cId" minOccurs="0"/>
                                    <element name="localCellId" type="un:localCellId" minOccurs="0"/>
                                    <element name="maximumTransmissionPower"
                                            type="un:maximumTransmissionPower" minOccurs="0"/>
                                    <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                                    <element name="pichPower" type="un:pichPower" minOccurs="0"/>
                                    <element name="pchPower" type="un:pchPower" minOccurs="0"/>
                                    <element name="fachPower" type="un:fachPower" minOccurs="0"/>
                                    <element name="lac" type="un:lac" minOccurs="0"/>
                                    <element name="rac" type="un:rac" minOccurs="0"/>
                                    <element name="sac" type="un:sac" minOccurs="0"/>
                                    <element name="uraList" type="un:uraList" minOccurs="0"/>
                                    <element name="utranCellIubLink" type="xn:dn" minOccurs="0"/>
                                    <element name="retAntennaFunctionList" type="xn:dnList" minOccurs="0"/>
                                    <element name="tmaFunctionList" type="xn:dnList" minOccurs="0"/>
                                    <element name="operationalState"
                                            type="sm:operationalStateType" minOccurs="0"/>
                                    <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                                    <element name="hsEnable" type="un:hsEnable" minOccurs="0"/>
                                    <element name="numOfHspdschs" type="un:numOfHspdschs" minOccurs="0"/>
                                    <element name="numOfHsscchs" type="un:numOfHsscchs" minOccurs="0"/>
                                    <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                                    <element name="cellIndividualOffset"
                                            type="un:cellIndividualOffset" minOccurs="0"/>
                                    <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                                    <element name="maximumAllowedUlTxPower"
                                            type="un:maximumAllowedUlTxPower" minOccurs="0"/>
                                    <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                                    <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                                    <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                                    <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                                    <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                                    <element name="referenceTimeDifferenceToCell"
                                            type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                                    <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                                    <element name="restrictionStateIndicator"
                                            type="un:restrictionStateIndicator" minOccurs="0"/>
                                    <element name="dpcModechangeSupportIndicator"
                                            type="un:dpcModeChangeSupport" minOccurs="0"/>
                                    <!-- End of inherited attributes from UtranGenericCell -->

                                    <element name="uarfcnUl" type="un:uarfcnAnyMode" minOccurs="0"/>
                                    <element name="uarfcnDl" type="un:uarfcnAnyMode" minOccurs="0"/>
                                    <element name="primaryScramblingCode" type="un:primaryScramblingCode"
                                            minOccurs="0"/>
                                    <element name="primaryCpichPower" type="un:primaryCpichPower" minOccurs="0"/>
                                    <element name="primarySchPower" type="un:primarySchPower" minOccurs="0"/>
                                    <element name="secondarySchPower" type="un:secondarySchPower" minOccurs="0"/>
                                    <element name="bchPower" type="un:bchPower" minOccurs="0"/>
                                    <element name="aichPower" type="un:aichPower" minOccurs="0"/>
                                    <element name="qqualMin" type="un:qqualMin" minOccurs="0"/>
                                    <element name="cellCapabilityContainerFDD" type="un:cellCapabilityContainerFDD"
                                            minOccurs="0"/>
                                    <element name="txDiversityIndicator" type="un:txDiversityIndicator"
                                            minOccurs="0"/>
                                    <element name="temporaryOffset1" type="un:temporaryOffset1" minOccurs="0"/>
                                    <element name="temporaryOffset2" type="un:temporaryOffset2" minOccurs="0"/>
                                    <element name="sttdSupportIndicator" type="un:sttdSupport" minOccurs="0"/>
                                    <element name="closedLoopModelSupportIndicator" type="un:closedLoopMode1"
                                            minOccurs="0"/>
                                </all>
                            </complexType>
                        </element>
```

```
              <choice minOccurs="0" maxOccurs="unbounded">
                <element ref="un:UtranRelation"/>
                <element ref="gn:GsmRelation"/>
                <element ref="en:EUtranRelation"/>
                <element ref="un:UtranCellFDDOptionallyContainedNrmClass"/>
                <element ref="xn:VsDataContainer"/>
              </choice>
            </sequence>
          </extension>
        </complexContent>
      </complexType>
    </element>

  <element name="UtranCellTDD" abstract="true">
      <complexType>
        <complexContent>
          <extension base="xn:NrmClass">
            <sequence>
              <element name="attributes" minOccurs="0">
                <complexType>
                  <all>

                    <!-- Inherited attributes from UtranGenericCell -->
                    <element name="userLabel" type="string" minOccurs="0"/>
                    <element name="cId" type="un:cId" minOccurs="0"/>
                    <element name="localCellId" type="un:localCellId" minOccurs="0"/>
                    <element name="maximumTransmissionPower"
                            type="un:maximumTransmissionPower" minOccurs="0"/>
                    <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                    <element name="pichPower" type="un:pichPower" minOccurs="0"/>
                    <element name="pchPower" type="un:pchPower" minOccurs="0"/>
                    <element name="fachPower" type="un:fachPower" minOccurs="0"/>
                    <element name="lac" type="un:lac" minOccurs="0"/>
                    <element name="rac" type="un:rac" minOccurs="0"/>
                    <element name="sac" type="un:sac" minOccurs="0"/>
                    <element name="uraList" type="un:uraList" minOccurs="0"/>
                    <element name="utranCellIubLink" type="xn:dn" minOccurs="0"/>
                    <element name="retAntennaFunctionList" type="xn:dnList" minOccurs="0"/>
                    <element name="tmaFunctionList" type="xn:dnList" minOccurs="0"/>
                    <element name="operationalState"
                            type="sm:operationalStateType" minOccurs="0"/>
                    <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                    <element name="hsEnable" type="un:hsEnable" minOccurs="0"/>
                    <element name="numOfHspdschs" type="un:numOfHspdschs" minOccurs="0"/>
                    <element name="numOfHsscchs" type="un:numOfHsscchs" minOccurs="0"/>
                    <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                    <element name="cellIndividualOffset"
                            type="un:cellIndividualOffset" minOccurs="0"/>
                    <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                    <element name="maximumAllowedUlTxPower"
                            type="un:maximumAllowedUlTxPower" minOccurs="0"/>
                    <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                    <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                    <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                    <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                    <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                    <element name="referenceTimeDifferenceToCell"
                            type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                    <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                    <element name="restrictionStateIndicator"
                            type="un:restrictionStateIndicator" minOccurs="0"/>
                    <element name="dpcModechangeSupportIndicator"
                            type="un:dpcModeChangeSupport" minOccurs="0"/>
                    <!-- End of inherited attributes from UtranGenericCell -->

                    <element name="uarfcn" type="un:uarfcnAnyMode" minOccurs="0"/>
                    <element name="cellParameterId" type="un:cellParameterId" minOccurs="0"/>
                    <element name="primaryCcpchPower" type="un:primaryCcpchPower" minOccurs="0"/>
                    <element name="cellCapabilityContainerTDD" type="un:cellCapabilityContainerTDD"
                            minOccurs="0"/>
                    <element name="sctdIndicator" type="un:sctdIndicator" minOccurs="0"/>
                    <element name="dpchConstantValue" type="un:dpchConstantValue" minOccurs="0"/>
                  </all>
                </complexType>
              </element>
              <choice minOccurs="0" maxOccurs="unbounded">
                <element ref="un:UtranRelation"/>
                <element ref="gn:GsmRelation"/>
```

```
                    <element ref="en:EUtranRelation"/>
                    <element ref="un:UtranCellTDDOptionallyContainedNrmClass"/>
                    <element ref="xn:VsDataContainer"/>
                </choice>
            </sequence>
        </extension>
    </complexContent>
    </complexType>
  </element>

<element name="UtranCellTDDLcr">
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>

                                <!-- Inherited attributes from UtranGenericCell via UtranCellTDD -->
                                <element name="userLabel" type="string" minOccurs="0"/>
                                <element name="cId" type="un:cId" minOccurs="0"/>
                                <element name="localCellId" type="un:localCellId" minOccurs="0"/>
                                <element name="maximumTransmissionPower"
                                        type="un:maximumTransmissionPower" minOccurs="0"/>
                                <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                                <element name="pichPower" type="un:pichPower" minOccurs="0"/>
                                <element name="pchPower" type="un:pchPower" minOccurs="0"/>
                                <element name="fachPower" type="un:fachPower" minOccurs="0"/>
                                <element name="lac" type="un:lac" minOccurs="0"/>
                                <element name="rac" type="un:rac" minOccurs="0"/>
                                <element name="sac" type="un:sac" minOccurs="0"/>
                                <element name="uraList" type="un:uraList" minOccurs="0"/>
                                <element name="utranCellIubLink" type="xn:dn" minOccurs="0"/>
                                <element name="retAntennaFunctionList" type="xn:dnList" minOccurs="0"/>
                                <element name="tmaFunctionList" type="xn:dnList" minOccurs="0"/>
                                <element name="operationalState"
                                        type="sm:operationalStateType" minOccurs="0"/>
                                <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                                <element name="hsEnable" type="un:hsEnable" minOccurs="0"/>
                                <element name="numOfHspdschs" type="un:numOfHspdschs" minOccurs="0"/>
                                <element name="numOfHsscchs" type="un:numOfHsscchs" minOccurs="0"/>
                                <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                                <element name="cellIndividualOffset"
                                        type="un:cellIndividualOffset" minOccurs="0"/>
                                <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                                <element name="maximumAllowedUlTxPower"
                                        type="un:maximumAllowedUlTxPower" minOccurs="0"/>
                                <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                                <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                                <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                                <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                                <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                                <element name="referenceTimeDifferenceToCell"
                                        type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                                <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                                <element name="restrictionStateIndicator"
                                        type="un:restrictionStateIndicator" minOccurs="0"/>
                                <element name="dpcModechangeSupportIndicator"
                                        type="un:dpcModeChangeSupport" minOccurs="0"/>
                                <!-- End of inherited attributes from UtranGenericCell via UtranCellTDD -->

                                <!-- Inherited attributes from UtranCellTDD -->
                                <element name="uarfcn" type="un:uarfcnAnyMode" minOccurs="0"/>
                                <element name="cellParameterId" type="un:cellParameterId" minOccurs="0"/>
                                <element name="primaryCcpchPower" type="un:primaryCcpchPower" minOccurs="0"/>
                                <element name="cellCapabilityContainerTDD" type="un:cellCapabilityContainerTDD"
                                        minOccurs="0"/>
                                <element name="sctdIndicator" type="un:sctdIndicator" minOccurs="0"/>
                                <element name="dpchConstantValue" type="un:dpchConstantValue" minOccurs="0"/>
                                <!-- End of inherited attributes from UtranCellTDD -->

                                <element name="uarfcnLCRList" type="un:uarfcnLCRList" minOccurs="0"/>
                                <element name="fpachPower" type="un:fpachPower" minOccurs="0"/>
                                <element name="dwPchPower" type="un:dwPchPower" minOccurs="0"/>
                                <element name="tstdIndicator" type="un:tstdIndicator" minOccurs="0"/>
                                <element name="timeSlotLCRList" type="un:timeSlotLCRList" minOccurs="0"/>
```

```
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="un:UtranRelation"/>
              <element ref="gn:GsmRelation"/>
              <element ref="en:EUtranRelation"/>
              <element ref="un:UtranCellTDDLcrOptionallyContainedNrmClass"/>
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

<element name="UtranCellTDDHcr">
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>

                  <!-- Inherited attributes from UtranGenericCell via UtranCellTDD -->
                  <element name="userLabel" type="string" minOccurs="0"/>
                  <element name="cId" type="un:cId" minOccurs="0"/>
                  <element name="localCellId" type="un:localCellId" minOccurs="0"/>
                  <element name="maximumTransmissionPower"
                          type="un:maximumTransmissionPower" minOccurs="0"/>
                  <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                  <element name="pichPower" type="un:pichPower" minOccurs="0"/>
                  <element name="pchPower" type="un:pchPower" minOccurs="0"/>
                  <element name="fachPower" type="un:fachPower" minOccurs="0"/>
                  <element name="lac" type="un:lac" minOccurs="0"/>
                  <element name="rac" type="un:rac" minOccurs="0"/>
                  <element name="sac" type="un:sac" minOccurs="0"/>
                  <element name="uraList" type="un:uraList" minOccurs="0"/>
                  <element name="utranCellIubLink" type="xn:dn" minOccurs="0"/>
                  <element name="retAntennaFunctionList" type="xn:dnList" minOccurs="0"/>
                  <element name="tmaFunctionList" type="xn:dnList" minOccurs="0"/>
                  <element name="operationalState"
                          type="sm:operationalStateType" minOccurs="0"/>
                  <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                  <element name="hsEnable" type="un:hsEnable" minOccurs="0"/>
                  <element name="numOfHspdschs" type="un:numOfHspdschs" minOccurs="0"/>
                  <element name="numOfHsscchs" type="un:numOfHsscchs" minOccurs="0"/>
                  <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                  <element name="cellIndividualOffset"
                          type="un:cellIndividualOffset" minOccurs="0"/>
                  <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                  <element name="maximumAllowedUlTxPower"
                          type="un:maximumAllowedUlTxPower" minOccurs="0"/>
                  <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                  <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                  <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                  <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                  <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                  <element name="referenceTimeDifferenceToCell"
                          type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                  <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                  <element name="restrictionStateIndicator"
                          type="un:restrictionStateIndicator" minOccurs="0"/>
                  <element name="dpcModechangeSupportIndicator"
                          type="un:dpcModeChangeSupport" minOccurs="0"/>
                  <!-- End of inherited attributes from UtranGenericCell via UtranCellTDD -->

                  <!-- Inherited attributes from UtranCellTDD -->
                  <element name="uarfcn" type="un:uarfcnAnyMode" minOccurs="0"/>
                  <element name="cellParameterId" type="un:cellParameterId" minOccurs="0"/>
                  <element name="primaryCcpchPower" type="un:primaryCcpchPower" minOccurs="0"/>
                  <element name="cellCapabilityContainerTDD" type="un:cellCapabilityContainerTDD"
                          minOccurs="0"/>
                  <element name="sctdIndicator" type="un:sctdIndicator" minOccurs="0"/>
                  <element name="dpchConstantValue" type="un:dpchConstantValue" minOccurs="0"/>
                  <!-- End of inherited attributes from UtranCellTDD -->
```

```xml
                <element name="schPower" type="un:schPower" minOccurs="0"/>
                <element name="temporaryOffset1" type="un:temporaryOffset1" minOccurs="0"/>
                <element name="syncCase" type="un:syncCase" minOccurs="0"/>
                <element name="timeSlotForSch" type="un:timeSlotForSch" minOccurs="0"/>
                <element name="schTimeSlot" type="un:schTimeSlot" minOccurs="0"/>
                <element name="timeSlotHCRList" type="un:timeSlotHCRList" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="un:UtranRelation"/>
            <element ref="gn:GsmRelation"/>
            <element ref="en:EUtranRelation"/>
            <element ref="un:UtranCellTDDHcrOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="IubLink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="iubLinkUtranCell" type="xn:dnList" minOccurs="0"/>
                <element name="iubLinkATMChannelTerminationPoint" type="xn:dn" minOccurs="0"/>
                <element name="iubLinkNodeBFunction" type="xn:dn" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="un:IubLinkOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="UtranRelation">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="adjacentCell" type="xn:dn"/>
                <element name="isRemoveAllowed" type="boolean" minOccurs="0"/>
                <element name="isHOAllowed" type="boolean" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="un:UtranRelationOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="ExternalUtranGenericCell" abstract="true"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
```

```
                    <element name="attributes" minOccurs="0">
                      <complexType>
                        <all>
                          <element name="userLabel" type="string" minOccurs="0"/>
                          <element name="cId" type="un:cId" minOccurs="0"/>
                          <element name="mcc" type="string" minOccurs="0"/>
                          <element name="mnc" type="string" minOccurs="0"/>
                          <element name="rncId" type="string" minOccurs="0"/>
                          <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                          <element name="lac" type="un:lac" minOccurs="0"/>
                          <element name="rac" type="un:rac" minOccurs="0"/>
                          <element name="controllingRnc" type="xn:dn" minOccurs="0"/>
                          <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                          <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                          <element name="cellIndividualOffset" type="un:cellIndividualOffset"
                                  minOccurs="0"/>
                          <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                          <element name="maximumAllowedUlTxPower" type="un:maximumAllowedUlTxPower"
                                  minOccurs="0"/>
                          <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                          <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                          <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                          <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                          <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                          <element name="referenceTimeDifferenceToCell"
                                  type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                          <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                          <element name="restrictionStateIndicator" type="un:restrictionStateIndicator"
                                  minOccurs="0"/>
                          <element name="dpcModeChangeSupportIndicator"  type="un:dpcModeChangeSupport"
                                  minOccurs="0"/>
                        </all>
                      </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                      <element ref="un:ExternalUtranGenericCellOptionallyContainedNrmClass"/>
                      <element ref="xn:VsDataContainer"/>
                    </choice>
                  </sequence>
                </extension>
              </complexContent>
            </complexType>
          </element>

          <element
            name="ExternalUtranCellFDD"
            substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
          >
            <complexType>
              <complexContent>
                <extension base="xn:NrmClass">
                  <sequence>
                    <element name="attributes" minOccurs="0">
                      <complexType>
                        <all>

                          <!-- Inherited attributes from ExternalUtranGenericCell -->
                          <element name="userLabel" type="string" minOccurs="0"/>
                          <element name="cId" type="un:cId" minOccurs="0"/>
                          <element name="mcc" type="string" minOccurs="0"/>
                          <element name="mnc" type="string" minOccurs="0"/>
                          <element name="rncId" type="string" minOccurs="0"/>
                          <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                          <element name="lac" type="un:lac" minOccurs="0"/>
                          <element name="rac" type="un:rac" minOccurs="0"/>
                          <element name="controllingRnc" type="xn:dn" minOccurs="0"/>
                          <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                          <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                          <element name="cellIndividualOffset" type="un:cellIndividualOffset"
                                  minOccurs="0"/>
                          <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                          <element name="maximumAllowedUlTxPower" type="un:maximumAllowedUlTxPower"
                                  minOccurs="0"/>
                          <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                          <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                          <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                          <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                          <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
```

```
                <element name="referenceTimeDifferenceToCell"
                        type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                <element name="restrictionStateIndicator" type="un:restrictionStateIndicator"
                        minOccurs="0"/>
                <element name="dpcModeChangeSupportIndicator"  type="un:dpcModeChangeSupport"
                        minOccurs="0"/>
                <!-- End of inherited attributes from ExternalUtranGenericCell -->

                <element name="uarfcnUl" type="un:uarfcnAnyMode" minOccurs="0"/>
                <element name="uarfcnDl" type="un:uarfcnAnyMode" minOccurs="0"/>
                <element name="primaryScramblingCode" type="un:primaryScramblingCode"
                        minOccurs="0"/>
                <element name="primaryCpichPower" type="un:primaryCpichPower" minOccurs="0"/>
                <element name="qqualMin" type="un:qqualMin" minOccurs="0"/>
                <element name="cellCapabilityContainerFDD" type="un:cellCapabilityContainerFDD"
                        minOccurs="0"/>
                <element name="txDiversityIndicator" type="un:txDiversityIndicator"
                        minOccurs="0"/>
                <element name="temporaryOffset1" type="un:temporaryOffset1" minOccurs="0"/>
                <element name="temporaryOffset2" type="un:temporaryOffset2" minOccurs="0"/>
                <element name="sttdSupportIndicator" type="un:sttdSupport" minOccurs="0"/>
                <element name="closedLoopMode1SupportIndicator" type="un:closedLoopMode1"
                        minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="un:ExternalUtranCellFDDOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="ExternalUtranCellTDD" abstract="true"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>

                <!-- Inherited attributes from ExternalUtranGenericCell -->
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="cId" type="un:cId" minOccurs="0"/>
                <element name="mcc" type="string" minOccurs="0"/>
                <element name="mnc" type="string" minOccurs="0"/>
                <element name="rncId" type="string" minOccurs="0"/>
                <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                <element name="lac" type="un:lac" minOccurs="0"/>
                <element name="rac" type="un:rac" minOccurs="0"/>
                <element name="controllingRnc" type="xn:dn" minOccurs="0"/>
                <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                <element name="cellIndividualOffset" type="un:cellIndividualOffset"
                        minOccurs="0"/>
                <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                <element name="maximumAllowedUlTxPower" type="un:maximumAllowedUlTxPower"
                        minOccurs="0"/>
                <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                <element name="referenceTimeDifferenceToCell"
                        type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                <element name="restrictionStateIndicator" type="un:restrictionStateIndicator"
                        minOccurs="0"/>
                <element name="dpcModeChangeSupportIndicator"  type="un:dpcModeChangeSupport"
                        minOccurs="0"/>
                <!-- End of inherited attributes from ExternalUtranGenericCell -->
```

```
                              <element name="uarfcn" type="un:uarfcnAnyMode" minOccurs="0"/>
                              <element name="cellParameterId" type="un:cellParameterId" minOccurs="0"/>
                              <element name="primaryCcpchPower" type="un:primaryCcpchPower" minOccurs="0"/>
                              <element name="cellCapabilityContainerTDD"
                                      type="un:cellCapabilityContainerTDD" minOccurs="0"/>
                              <element name="sctdIndicator" type="un:sctdIndicator" minOccurs="0"/>
                              <element name="dpchConstantValue" type="un:dpchConstantValue" minOccurs="0"/>
                          </all>
                      </complexType>
                  </element>
                  <choice minOccurs="0" maxOccurs="unbounded">
                      <element ref="un:ExternalUtranCellTDDOptionallyContainedNrmClass"/>
                      <element ref="xn:VsDataContainer"/>
                  </choice>
              </sequence>
          </extension>
      </complexContent>
  </complexType>
</element>

<element
  name="ExternalUtranCellTDDHcr"
  substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>

                <!--Inherited attributes from ExternalUtranGenericCell via ExternalUtranCellTDD-->
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="cId" type="un:cId" minOccurs="0"/>
                <element name="mcc" type="string" minOccurs="0"/>
                <element name="mnc" type="string" minOccurs="0"/>
                <element name="rncId" type="string" minOccurs="0"/>
                <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                <element name="lac" type="un:lac" minOccurs="0"/>
                <element name="rac" type="un:rac" minOccurs="0"/>
                <element name="controllingRnc" type="xn:dn" minOccurs="0"/>
                <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                <element name="cellIndividualOffset" type="un:cellIndividualOffset"
                        minOccurs="0"/>
                <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                <element name="maximumAllowedUlTxPower" type="un:maximumAllowedUlTxPower"
                        minOccurs="0"/>
                <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                <element name="referenceTimeDifferenceToCell"
                        type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                <element name="restrictionStateIndicator" type="un:restrictionStateIndicator"
                        minOccurs="0"/>
                <element name="dpcModeChangeSupportIndicator"  type="un:dpcModeChangeSupport"
                        minOccurs="0"/>
                <!-- End of inherited attributes from ExternalUtranGenericCell -->

                <!-- Inherited attributes from ExternalUtranCellTDD -->
                <element name="uarfcn" type="un:uarfcnAnyMode" minOccurs="0"/>
                <element name="cellParameterId" type="un:cellParameterId" minOccurs="0"/>
                <element name="primaryCcpchPower" type="un:primaryCcpchPower" minOccurs="0"/>
                <element name="cellCapabilityContainerTDD"
                        type="un:cellCapabilityContainerTDD" minOccurs="0"/>
                <element name="sctdIndicator" type="un:sctdIndicator" minOccurs="0"/>
                <element name="dpchConstantValue" type="un:dpchConstantValue" minOccurs="0"/>
                <!-- End of inherited attributes from ExternalUtranCellTDD -->

                <element name="temporaryOffset1" type="un:temporaryOffset1" minOccurs="0"/>
                <element name="syncCase" type="un:syncCase" minOccurs="0"/>
                <element name="timeSlotForSch" type="un:timeSlotForSch" minOccurs="0"/>
                <element name="schTimeSlot" type="un:schTimeSlot" minOccurs="0"/>
```

```
                <element name="timeSlotHCRList" type="un:timeSlotHCRList" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="un:ExternalUtranCellTDDHcrOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="ExternalUtranCellTDDLcr"
  substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>

                <!--Inherited attributes from ExternalUtranGenericCell via ExternalUtranCellTDD-->
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="cId" type="un:cId" minOccurs="0"/>
                <element name="mcc" type="string" minOccurs="0"/>
                <element name="mnc" type="string" minOccurs="0"/>
                <element name="rncId" type="string" minOccurs="0"/>
                <element name="cellMode" type="un:cellMode" minOccurs="0"/>
                <element name="lac" type="un:lac" minOccurs="0"/>
                <element name="rac" type="un:rac" minOccurs="0"/>
                <element name="controllingRnc" type="xn:dn" minOccurs="0"/>
                <element name="hsFlag" type="un:hsFlag" minOccurs="0"/>
                <element name="frameOffset" type="un:frameOffset" minOccurs="0"/>
                <element name="cellIndividualOffset" type="un:cellIndividualOffset"
                        minOccurs="0"/>
                <element name="hcsPrio" type="un:hcsPrio" minOccurs="0"/>
                <element name="maximumAllowedUlTxPower" type="un:maximumAllowedUlTxPower"
                        minOccurs="0"/>
                <element name="snaInformation" type="un:snaInformation" minOccurs="0"/>
                <element name="qrxlevMin" type="un:qrxlevMin" minOccurs="0"/>
                <element name="deltaQrxlevmin" type="un:deltaQrxlevmin" minOccurs="0"/>
                <element name="qhcs" type="un:qhcs" minOccurs="0"/>
                <element name="penaltyTime" type="un:penaltyTime" minOccurs="0"/>
                <element name="referenceTimeDifferenceToCell"
                        type="un:referenceTimeDifferenceToCell" minOccurs="0"/>
                <element name="readSFNIndicator" type="un:readSFNIndicator" minOccurs="0"/>
                <element name="restrictionStateIndicator" type="un:restrictionStateIndicator"
                        minOccurs="0"/>
                <element name="dpcModeChangeSupportIndicator"  type="un:dpcModeChangeSupport"
                        minOccurs="0"/>
                <!-- End of inherited attributes from ExternalUtranGenericCell -->

                <!-- Inherited attributes from ExternalUtranCellTDD -->
                <element name="uarfcn" type="un:uarfcnAnyMode" minOccurs="0"/>
                <element name="cellParameterId" type="un:cellParameterId" minOccurs="0"/>
                <element name="primaryCcpchPower" type="un:primaryCcpchPower" minOccurs="0"/>
                <element name="cellCapabilityContainerTDD"
                        type="un:cellCapabilityContainerTDD" minOccurs="0"/>
                <element name="sctdIndicator" type="un:sctdIndicator" minOccurs="0"/>
                <element name="dpchConstantValue" type="un:dpchConstantValue" minOccurs="0"/>
                <!-- End of inherited attributes from ExternalUtranCellTDD -->

                <element name="tstdIndicator" type="un:tstdIndicator" minOccurs="0"/>
                <element name="timeSlotLCRList" type="un:timeSlotLCRList" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="un:ExternalUtranCellTDDLcrOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
```

```
          </complexContent>
        </complexType>
    </element>

  <element
    name="AntennaFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
      <complexType>
        <complexContent>
          <extension base="xn:NrmClass">
            <sequence>
              <element name="attributes" minOccurs="0">
                <complexType>
                  <all>
                    <element name="userLabel" type="string" minOccurs="0"/>
                    <element name="retUtranCellList" type="xn:dnList" minOccurs="0"/>
                    <element name="retTiltValue" type="un:angleValue" minOccurs="0"/>
                    <element name="bearing" type="un:bearing" minOccurs="0"/>
                    <element name="maxTiltValue" type="un:angleValue" minOccurs="0"/>
                    <element name="minTiltValue" type="un:angleValue" minOccurs="0"/>
                    <element name="mechanicalOffset" type="un:angleValue" minOccurs="0"/>
                    <element name="retGroupName" type="un:retGroupName" minOccurs="0"/>
                    <element name="height" type="integer" minOccurs="0"/>
                    <element name="baseElevation" type="integer" minOccurs="0"/>
                    <element name="latitude" type="decimal" minOccurs="0"/>
                    <element name="longitude" type="decimal" minOccurs="0"/>
                    <element name="maxAzimuthValue" type="un:angleValue" minOccurs="0"/>
                    <element name="minAzimuthValue" type="un:angleValue" minOccurs="0"/>
                    <element name="horizBeamwidth" type="un:angleValue" minOccurs="0"/>
                    <element name="vertBeamwidth" type="un:angleValue" minOccurs="0"/>
                    <element name="patternLabel" type="string" minOccurs="0"/>
                  </all>
                </complexType>
              </element>
              <choice minOccurs="0" maxOccurs="unbounded">
                <element ref="un:AntennaFunctionOptionallyContainedNrmClass"/>
                <element ref="xn:VsDataContainer"/>
              </choice>
            </sequence>
          </extension>
        </complexContent>
      </complexType>
</element>

  <element
    name="ExternalRncFunction"
    substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
  >
      <complexType>
        <complexContent>
          <extension base="xn:NrmClass">
            <sequence>
              <element name="attributes" minOccurs="0">
                <complexType>
                  <all>
                    <element name="userLabel" type="string" minOccurs="0"/>
                    <element name="mcc" type="string" minOccurs="0"/>
                    <element name="mnc" type="string" minOccurs="0"/>
                    <element name="rncId" type="string" minOccurs="0"/>
                    <element name="controlledCellList" type="xn:dnList" minOccurs="0"/>
                  </all>
                </complexType>
              </element>
              <choice minOccurs="0" maxOccurs="unbounded">
                <element ref="un:ExternalUtranCellFDD"/>
                <element ref="un:ExternalUtranCellTDDHcr"/>
                <element ref="un:ExternalUtranCellTDDLcr"/>
                <element ref="un:ExternalRncFunctionOptionallyContainedNrmClass"/>
                <element ref="xn:VsDataContainer"/>
              </choice>
            </sequence>
          </extension>
        </complexContent>
      </complexType>
  </element>

  <element
```

```xml
      name="TmaFunction"
      substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" type="string"/>
                  <element name="tmaSubunitNumber" type="short" minOccurs="0"/>
                  <element name="tmaStateFlag" type="un:tmaStateFlag" minOccurs="0"/>
                  <element name="tmaFunctionFlag" type="un:tmaFunctionFlag" minOccurs="0"/>
                  <element name="tmaMinGain" type="short" minOccurs="0"/>
                  <element name="tmaMaxGain" type="short" minOccurs="0"/>
                  <element name="tmaResolution" type="short" minOccurs="0"/>
                  <element name="tmaGainFigure" type="short" minOccurs="0"/>
                  <element name="tmaNumberOfSubunits" type="short" minOccurs="0"/>
                  <element name="tmaNumberOfNonLinearGainValues" type="short" minOccurs="0"/>
                  <element name="tmaNonLinearGainValue" type="short" minOccurs="0"/>
                  <element name="tmaUtranCellList" type="xn:dnList" minOccurs="0"/>
                  <element name="tmaAdditionalDataFieldNumber" type="short"/>
                  <element name="tmaAntennaModelNumber" type="string"/>
                  <element name="tmaAntennaSerialNumber" type="string"/>
                  <element name="tmaAntennaOperatingBands" type="short"/>
                  <element name="tmaBeamwidthForEachOpBandInBandOrder" type="un:eightOctets"/>
                  <element name="tmaGainForEachOpBandInBandOrder" type="un:fourOctets"/>
                  <element name="tmaInstallationDate" type="string"/>
                  <element name="tmaInstallersId" type="string"/>
                  <element name="tmaBaseStationId" type="string"/>
                  <element name="tmaSectorId" type="string"/>
                  <element name="tmaAntennaBearing" type="short"/>
                  <element name="tmaInstalledMechanicalTilt" type="short"/>
                  <element name="tmaSubunitType" type="short"/>
                  <element name="tmaSubunitRxFrequencyBand" type="un:fourOctets"/>
                  <element name="tmaSubunitTxFrequencyBand" type="un:fourOctets"/>
                  <element name="tmaMaxSupportedGain" type="short"/>
                  <element name="tmaMinSupportedGain" type="short"/>
                  <element name="tmaGainResolution" type="short"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="un:TmaFunctionOptionallyContainedNrmClass"/>
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

<element
    name="EP_IuCS"
    substitutionGroup="un:RncFunctionOptionallyContainedNrmClass"
>
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="connMscNumber" type="short" minOccurs="0"/>
                </all>
              </complexType>
            </element>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

<element
    name="EP_IuPS"
    substitutionGroup="un:RncFunctionOptionallyContainedNrmClass"
```

```
>
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="connSgsnNumber" type="short" minOccurs="0"/>
                </all>
              </complexType>
            </element>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element name="RncFunctionOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="NodeBFunctionOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="UtranGenericCellOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="UtranCellFDDOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="UtranCellTDDOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="UtranCellTDDLcrOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="UtranCellTDDHcrOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="IubLinkOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="UtranRelationOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="ExternalUtranGenericCellOptionallyContainedNrmClass"
          type="xn:NrmClass" abstract="true"/>
  <element name="ExternalUtranCellFDDOptionallyContainedNrmClass"
          type="xn:NrmClass" abstract="true"/>
  <element name="ExternalUtranCellTDDOptionallyContainedNrmClass"
          type="xn:NrmClass" abstract="true"/>
  <element name="ExternalUtranCellTDDHcrOptionallyContainedNrmClass"
          type="xn:NrmClass" abstract="true"/>
  <element name="ExternalUtranCellTDDLcrOptionallyContainedNrmClass"
          type="xn:NrmClass" abstract="true"/>
  <element name="AntennaFunctionOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
  <element name="ExternalRncFunctionOptionallyContainedNrmClass"
          type="xn:NrmClass" abstract="true"/>
  <element name="TmaFunctionOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>

</schema>
```

Annex B (informative):
Void

Annex C (informative):
Change history

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
Jun 2006	SA_32	SP-060259	0027	--	Add configuration parameters for radio channel power - Align with 32.642	B	6.7.0	7.0.0
Sep 2006	SA_33	SP-060537	0029	--	Correct the usage of dnList type for iubLinkUtranCell & controlledCellList	A	7.0.0	7.1.0
Mar 2007	--	--	--	--	Delete reference to the 32.304 CMIP SS. Reason: SA#35 endorsed the SA5 decision to not propagate the CMIP Solution Sets to Rel-7 (TS 32.3x4, TS 32.4x4, TS 32.6x4)	--	7.1.0	7.1.1
Jun 2007	SA_36	SP-070282	0030	--	Add control and configuration of Tower Mounted Amplifiers - Align with RAN3 25.466	B	7.1.1	7.2.0
Jun 2007	SA_36	SP-070276	0031	--	Add missing monitoring of cell neighbourship relations over Itf-p2p - Align with 32.642	F	7.1.1	7.2.0
Dec 2007	SA_38	SP-070730	0033	1	R7 CR 32.645-720 Add Missing userLabel Attribute	A	7.2.0	7.3.0
Dec 2007	SA_38	SP-070732	0034	--	Syntax changes to XML schema element TmaFunction in order to prevent XML compilation errors	F	7.2.0	7.3.0
Mar 2008	SP-39	SP-080058	0035	--	Add missing multi-frequency attributes for 1.28Mcps TDD - Align with 32.642	F	7.3.0	7.4.0
Jun 2008	SP-40	SP-080328	0036	--	Correction of UTRAN Cell attributes - Align with 32.642	F	7.4.0	7.5.0
Sep 2008	SP-41	SP-080328	0037	--	Correction of XSD containment for UTRAN Cell classes	F	7.5.0	7.6.0
Dec 2008	SA_42	--	--	--	Upgrade to Release 8	--	7.6.0	8.0.0
Dec 2009	SA_46	SP-090719	0038	--	Discontinue from Rel-9 onwards the XML schema extraction and storage	F	8.0.0	9.0.0
Dec 2011	SA_54	SP-110704	0040	--	Add missing IRAT ANR to UTRAN and Neighbour cell Relation towards E-UTRAN – Align with 32.642	A	9.0.0	9.1.0
Jun-2012	SA_56	SP-120355	0042	--	Add the missing IOC EP_IuCS and EP_IuPS in XML schema- Align with 32.642	A	9.1.0	9.2.0
Sep-2012	SA_57	SP-120556	0044	--	Remove the superfluous attribute in XML schema- Align with 32.642	A	9.2.0	9.3.0