

ETSI TS 132 765 V8.3.0 (2010-04)

Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
LTE;
Telecommunication management;
Evolved Universal Terrestrial Radio Access Network (E-UTRAN)
Network Resource Model (NRM)
Integration Reference Point (IRP):
Bulk CM eXtensible Markup Language (XML) file format definition
(3GPP TS 32.765 version 8.3.0 Release 8)**



Reference

RTS/TSGS-0532765v830

Keywords

GSM, LTE, UMTS

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2010.
All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™**, **TIPHON™**, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPP™ is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

LTE™ is a Trade Mark of ETSI currently being registered

for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

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

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

Contents

Intellectual Property Rights	2
Foreword.....	2
Foreword.....	4
Introduction	4
1 Scope	5
2 References	5
3 Definitions, symbols and abbreviations	6
3.1 Definitions	6
3.2 Symbols.....	7
3.3 Abbreviations	7
4 Architectural Features	7
5 Mapping	8
5.1 General	8
5.2 Information Object Class (IOC) mapping	8
Annex A (normative): XML schema (file name "eutranNrm.xsd").....	9
Annex B (informative): XML schema electronic files.....	14
Annex C (informative): Change history	15
History	16

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:

32.761	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): Requirements
32.762	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)
32.763	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)
32.765	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions

1 Scope

The present document provides the XML definitions for the E-UTRAN Network Resource Model IRP IS [2].

An application of these XML definitions is to build a configuration file for transfer with the Bulk CM IRP using either CORBA Solution Set of 3GPP TS 32.613 [3] or the SOAP Solution Set of 3GPP TS 32.617 [5]. For this application, the basic part of the XML file format definition is provided by 3GPP TS 32.615 [4].

Other applications of these XML definitions are the SOAP solution sets of other IRPs that perform operations on managed objects, for example the Basic CM IRP SOAP SS of 3GPP TS 32.607 [6]. This specification is related to 3GPP TS 32.762 V8.3.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 21.905: 'Vocabulary for 3GPP Specifications'.
- [2] 3GPP TS 32.762: "Telecommunications management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".
- [3] 3GPP TS 32.613: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)".
- [4] 3GPP TS 32.615: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); eXtensible Markup Language (XML) file format definition".
- [5] 3GPP TS 32.617: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); SOAP Solution Set (SS)".
- [6] 3GPP TS 32.607: "Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); SOAP Solution Set (SS)".
- [7] W3C REC-xml-20001006: "Extensible Markup Language (XML) 1.0 (Second Edition)".
- [8] W3C REC-xmlschema-0-20010502: "XML Schema Part 0: Primer".
- [9] W3C REC-xmlschema-1-20010502: "XML Schema Part 1: Structures".
- [10] W3C REC-xmlschema-2-20010502: "XML Schema Part 2:
- [11] W3C REC-xml-names-19990114: "Namespaces in XML".
- [12] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

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 [7]; in the scope of the present document.

XML declaration: it specifies the version of XML being used

NOTE: See [7].

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 [7].

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 [7].

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 [7].

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 [7].

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 [7].

XML attribute specification: has a name and a value

NOTE: See [7].

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

NOTE: See [7].

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 [8], [9] and [10].

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

NOTE: See [11], 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 [8], [9] and [10].

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 [8], [9] and [10].

3.2 Symbols

-

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

CM	Configuration Management
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
XSD	XML Schema Definition

4 Architectural Features

The overall architectural feature of E-UTRAN Network Resource Model IRP is specified in 3GPP TS 32.762 [2]. This clause specifies features that are specific to the XML definitions.

The XML definitions of this document specify the schema for a configuration content.

When using the XML definitions for a configuration file transfer with the Bulk CM IRP, using either CORBA Solution Set of 3GPP TS 32.613 [3] or SOAP Solution Set of 3GPP TS 32.617 [5], the basic part of the XML file format definition is provided by 3GPP TS 32.615 [4]. The XML definitions of this document provide the schema for the configuration content to be included in such a configuration file.

When using the XML definitions with a SOAP solution set of any interface IRP that perform operations on managed objects, for example the Basic CM IRP SOAP SS of 3GPP TS 32.607 [6], the XML definitions of this document provides the schema for the configuration content operated on by the interface IRP. Such configuration content can be name of managed object and, if applicable, IOC attributes.

5 Mapping

5.1 General

An IOC maps to an XML element of the same name as the IOC's name in the IS. An IOC attribute maps to a sub-element of the corresponding IOC's XML element, and the name of this sub-element is the same as the attribute's name in the IS.

5.2 Information Object Class (IOC) mapping

Annex A of the present document defines the NRM-specific XML schema `eutranNrm.xsd` for the E-UTRAN Network Resources IRP NRM defined in 3GPP TS 32.762 [2].

XML schema `eutranNrm.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 [4].

Annex A (normative): XML schema (file name "eutranNrm.xsd")

The following XML schema eutranNrm.xsd is the NRM-specific schema for the E-UTRAN Network Resource Model IRP NRM defined in 3GPP TS 32.762 [2]:

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
  3GPP TS 32.765 E-UTRAN Network Resource Model IRP
  XML schema definition
  eutranNrm.xsd
-->
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:en="http://www.3gpp.org/ftp/specs/archive/32_series/32.765#eutranNrm"
  xmlns:epc="http://www.3gpp.org/ftp/specs/archive/32_series/32.755#epcNrm"
  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"
  targetNamespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.765#eutranNrm"
  elementFormDefault="qualified">
  <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/32.755#epcNrm"/>
  <import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.645#utranNrm"/>
  <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"/>
  <complexType name="IpAddressList">
    <sequence>
      <element name="ipAddress" type="string" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
  </complexType>
  <simpleType name="CellIdentity">
    <restriction base="unsignedLong">
      <maxInclusive value="268435455"/>
    </restriction>
  </simpleType>
  <simpleType name="CellType">
    <restriction base="string">
      <enumeration value="Femto"/>
      <enumeration value="Pico"/>
      <enumeration value="Macro"/>
    </restriction>
  </simpleType>
  <simpleType name="cellSize">
    <restriction base="string">
      <enumeration value="verysmall"/>
      <enumeration value="small"/>
      <enumeration value="medium"/>
      <enumeration value="large"/>
    </restriction>
  </simpleType>
  <complexType name="PLMNId">
    <sequence>
      <element name="mcc" type="short" minOccurs="0"/>
      <element name="mnc" type="short" minOccurs="0"/>
    </sequence>
  </complexType>
  <complexType name="PLMNIdList">
    <sequence>
      <element name="pLMNId" type="en:PLMNId" minOccurs="0" maxOccurs="6"/>
    </sequence>
  </complexType>
  <simpleType name="Pci">
    <restriction base="unsignedShort">
      <maxInclusive value="503"/>
      <!-- Minimum value is 0, maximum value is 3x167+2=503 -->
    </restriction>
  </simpleType>
  <complexType name="PciList">
    <sequence>
      <element name="pci" type="en:Pci" maxOccurs="504"/>
    </sequence>
  </complexType>
</schema>
```

```

</complexType>
<element name="ENBFunction" 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="x2BlackList" type="xn:dnList" minOccurs="0"/>
                <element name="x2WhiteList" type="xn:dnList" minOccurs="0"/>
                <element name="x2HOBlackList" type="xn:dnList" minOccurs="0"/>
                <element name="x2IpAddressList" type="string" minOccurs="0"/>
                <!-- linkList attribute is to be added when defined in the IS -->
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="en:EUTranCellFDD"/>
            <element ref="en:EUTranCellTDD"/>
            <element ref="epc:EP_RP_EPS"/>
            <element ref="en:ENBFunctionOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="ExternalENBFunction" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" type="string" minOccurs="0"/>
                <!-- Attributes are to be added when defined in the IS -->
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="en:ExternalEUTranCellFDD"/>
            <element ref="en:ExternalEUTranCellTDD"/>
            <element ref="en:ExternalENBFunctionOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="EUTranCellFDD">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <!-- Inherited attributes from EUTranGenericCell-->
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="cellIdentity" type="en:CellIdentity" minOccurs="0"/>
                <element name="cellType" type="en:CellType" minOccurs="0"/>
                <element name="cellSize" type="en:cellSize" minOccurs="0"/>
                <element name="pLMNIdList" type="en:PLMNIdList" minOccurs="0"/>
                <element name="tac" minOccurs="0"/>
                <element name="pci" type="en:Pci" minOccurs="0"/>
                <element name="pciList" type="en:PciList" minOccurs="0"/>
                <element name="maximumTransmissionPower" type="short" minOccurs="0"/>
                <element name="partOfSectorPower" type="short" minOccurs="0"/>
                <element name="referenceSignalPower" type="short" minOccurs="0"/>
                <element name="pb" type="short" minOccurs="0"/>
                <element name="operationalState" type="sm:operationalStateType" minOccurs="0"/>
                <element name="administrativeState" type="sm:administrativeStateType"
                  minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>

```

```

        <element name="availabilityStatus" type="sm:availabilityStatusType"
            minOccurs="0"/>
        <!-- End of inherited attributes from EUTranGenericCell -->
        <element name="earfcnDl" minOccurs="0"/>
        <element name="earfcnUl" minOccurs="0"/>
    </all>
</complexType>
</element>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="en:EUTranRelation"/>
    <element ref="en:EUTranCellFDDOptionallyContainedNrmClass"/>
    <element ref="en:Cdma2000Relation"/>
    <element ref="gn:GsmRelation"/>
    <element ref="un:UtranRelation"/>
    <element ref="xn:VsDataContainer"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>
<element name="ExternalEUTranCellFDD"
    substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <!-- Inherited attributes from ExternalEUTranGenericCell-->
                                <element name="userLabel" type="string" minOccurs="0"/>
                                <element name="pci" type="en:PCI" minOccurs="0"/>
                                <element name="pLMNIdList" type="en:PLMNIdList" minOccurs="0"/>
                                <element name="cellIdentity" type="en:CellIdentity" minOccurs="0"/>
                                <!-- End of inherited attributes from ExternalEUTranGenericCell -->
                                <element name="earfcnDl" minOccurs="0"/>
                                <element name="earfcnUl" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="en:ExternalEUTranCellFDDOptionallyContainedNrmClass"/>
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>
<element name="EUTranCellTDD">
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <!-- Inherited attributes from EUTranGenericCell-->
                                <element name="userLabel" type="string" minOccurs="0"/>
                                <element name="cellIdentity" type="en:CellIdentity" minOccurs="0"/>
                                <element name="cellType" type="en:CellType" minOccurs="0"/>
                                <element name="cellSize" type="en:cellSize" minOccurs="0"/>
                                <element name="pLMNIdList" type="en:PLMNIdList" minOccurs="0"/>
                                <element name="tac" minOccurs="0"/>
                                <element name="pci" type="en:PCI" minOccurs="0"/>
                                <element name="pciList" type="en:PCIList" minOccurs="0"/>
                                <element name="maximumTransmissionPower" type="short" minOccurs="0"/>
                                <element name="partOfSectorPower" type="short" minOccurs="0"/>
                                <element name="referenceSignalPower" type="short" minOccurs="0"/>
                                <element name="pb" type="short" minOccurs="0"/>
                                <element name="operationalState" type="sm:operationalStateType" minOccurs="0"/>
                                <element name="administrativeState" type="sm:administrativeStateType"
                                    minOccurs="0"/>
                                <element name="availabilityStatus" type="sm:availabilityStatusType"
                                    minOccurs="0"/>
                                <!-- End of inherited attributes from EUTranGenericCell -->
                            </all>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

    </complexType>
  </element>
  <choice minOccurs="0" maxOccurs="unbounded">
    <element ref="en:EUtranRelation"/>
    <element ref="en:EUtranCellTDDOptionallyContainedNrmClass"/>
    <element ref="en:Cdma2000Relation"/>
    <element ref="gn:GsmRelation"/>
    <element ref="un:UtranRelation"/>
    <element ref="xn:VsDataContainer"/>
  </choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>
<element name="ExternalEUtranCellTDD"
substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <!-- Inherited attributes from ExternalEUtranGenericCell-->
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="pci" type="en:PCI" minOccurs="0"/>
                <element name="pLMNidList" type="en:PLMNidList" minOccurs="0"/>
                <element name="cellIdentity" type="en:CellIdentity" minOccurs="0"/>
                <!-- End of inherited attributes from ExternalEUtranGenericCell -->
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="en:ExternalEUtranCellTDDOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="EUtranRelation">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="tCI" minOccurs="0"/>
                <element name="isRemoveAllowed" type="boolean" minOccurs="0"/>
                <element name="isHOAllowed" type="boolean" minOccurs="0"/>
                <element name="adjacentCell" type="xn:dn" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="en:EUtranRelationOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="Cdma2000Relation">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="adjacentSector" type="xn:dn" minOccurs="0"/>
              </all>
            </complexType>
          </element>

```

```

    <choice minOccurs="0" maxOccurs="unbounded">
      <element ref="en:Cdma2000RelationOptionallyContainedNrmClass"/>
      <element ref="xn:VsDataContainer"/>
    </choice>
  </sequence>
</extension>
</complexContent>
</complexType>
</element>
<element name="Link_ENB_ENB" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <!-- Inherited attributes from Link -->
                <element name="aEnd" type="xn:dn" minOccurs="0"/>
                <element name="linkType" type="xn:linkType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:dn" minOccurs="0"/>
                <!-- End of inherited attributes from Link -->
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="en:Link_ENB_ENBOptionallyContainedNrmClass"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<!-- The element definition for EP_RP_EPS is available through
the epcNrm.xsd (3GPP TS 32.755), by using epc:EP_RP_EPS -->
<element name="ENBFunctionOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
<element name="ExternalENBFunctionOptionallyContainedNrmClass" type="xn:NrmClass"
abstract="true"/>
<element name="EUTranCellFDDOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
<element name="ExternalEUTranCellFDDOptionallyContainedNrmClass" type="xn:NrmClass"
abstract="true"/>
<element name="EUTranCellTDDOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
<element name="ExternalEUTranCellTDDOptionallyContainedNrmClass" type="xn:NrmClass"
abstract="true"/>
<element name="EUTranRelationOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
<element name="Cdma2000RelationOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
<element name="Link_ENB_ENBOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
</schema>

```

Annex B (informative): XML schema electronic files

The electronic files corresponding to the normative XML schemas defined in the present document are available in native form in the following archive:

http://www.3gpp.org/ftp/specs/archive/32_series/32.765/schema/32765-830-XMLSchema.zip

Annex C (informative): Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New	
Mar 2009	SP-43	SP-090076	--	--	Presentation to SA for information and approval	1.0.0	8.0.0	
Jun 2009	SP-44	SP-090408	001	--	Add the missing cellSize attribute in EUTranGenericCell IOC - align with 36.423	8.0.0	8.1.0	
Jun 2009	SP-44	SP-090408	003	--	Add the missing downlink power related attributes for EUTRAN Cell - align with 36.213 and 36.331	8.0.0	8.1.0	
Sep 2009	SP-45	SP-090542		005	-	Align with the IS in 32.762 - Add and remove attributes for IOC Relations	8.1.0	8.2.0
Sep 2009	SP-45	SP-090542	007	-	Add plmnIdList to ExternalEutranGenericCell	8.1.0	8.2.0	
Mar 2010	SP47	SP-100037	012	-	Align with IS - Corrections in XML	8.2.0	8.3.0	

History

Document history		
V8.0.0	April 2009	Publication
V8.1.0	July 2009	Publication
V8.2.0	October 2009	Publication
V8.3.0	April 2010	Publication