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**Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Home Node B (HNB) Operations, Administration,
Maintenance and Provisioning (OAM&P);
XML definitions for Type 1 interface HNB to
HNB Management System (HMS)
(3GPP TS 32.584 version 12.0.0 Release 12)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	4
Introduction	4
1 Scope	5
2 References	5
3 Definitions and abbreviations.....	6
3.1 Definitions.....	6
3.2 Abbreviations	6
4 CM data format definition.....	6
4.1 File content description	6
4.2 XML schema based CM data file format definition.....	8
4.2.1 CM data file XML diagram	8
4.2.2 CM data file XML schema	10
4.2.3 CM data file XML header.....	21
5 PM data format definition	21
5.1 Mapping table.....	21
5.2 XML schema based PM data file format definition	23
5.2.1 PM data file XML diagram.....	23
5.2.2 PM data file XML schema.....	23
5.2.2 PM data file XML header	23
Annex A (informative): Examples.....	24
A.1 XML schema based CM data file.....	24
A.2 XML schema based PM data file	24
Annex B (informative): Void	25
Annex C (informative): Change history	26
History	27

Foreword

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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:

- 32.581: "Telecommunications management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Concepts and requirements for Type 1 interface HNB to HNB Management System (HMS)"
- 32.582: "Telecommunications management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Information model for Type 1 interface HNB to HNB Management System (HMS)"
- 32.583: "Telecommunications management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Procedure flows for Type 1 interface HNB to HNB Management System (HMS)"
- 32.584: "Telecommunications management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); XML definitions for Type 1 interface HNB to HNB Management System (HMS)"

1 Scope

The present document describes the data format for Configuration Management and Performance Management for Home Node B (HNB). The XML definitions captured in this document shall be met via Type 1 interface between HNB and HNB Management System (HMS).

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 TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
- [3] 3GPP TS 32.102: "Telecommunication management; Architecture".
- [4] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects".
- [5] Void.
- [6] 3GPP TR R3.020, Home (e)NodeB
- [7] TR-069 Amendment 2, CPE WAN Management Protocol v1.1, Broadband Forum
- [8] 3GPP TS 32.435: "Telecommunication management; Performance measurement: eXtensible Markup Language (XML) file format definition"
- [9] 3GPP TS 32.582: "Telecommunications management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Information model for Type 1 interface HNB to HNB Management System (HMS)"
- [10] W3C REC-xml-20001006: "Extensible Markup Language (XML) 1.0 (Second Edition)".
- [11] W3C REC-xmleschema-0-20010502: "XML Schema Part 0: Primer".
- [12] W3C REC-xmleschema-1-20010502: "XML Schema Part 1: Structures".
- [13] W3C REC-xmleschema-2-20010502: "XML Schema Part 2: Datatypes".
- [14] W3C REC-xml-names-19990114: "Namespaces in XML".
- [15] TR-157 Amendment 1 'Component Objects for CWMP', Broadband Forum.
- [16] TR-098 Amendment 2, "Internet Gateway Device Data Model for TR-069", Broadband Forum
- [17] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP); Network Resource Model (NRM)".
- [18] 3GPP TS 32.772: 'Telecommunication management; Home Node B (HNB) Subsystem (HNS); Integration Reference Point (IRP); Information Service (IS)'

- [19] 3GPP TS 22.220: 'Service requirements for Home Node B (HNB) and Home eNode B (HeNB)'
- [20] 3GPP TS 32.432: 'Telecommunication management; Performance measurement: File format definition'

3 Definitions 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].

Home NodeB, 3G Home NodeB: These terms, their derivations and abbreviations are used synonymously throughout this document.

3.2 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].

DM	Domain Manager
EM	Element Manager
FFS	For Further Study
HNB	Home Node B
HMS	HNB Management System
IP	Internet Protocol
LTE	Long Term Evolution
MME	Mobile Management Entity
NGMN	Next Generation Mobile Networks
PnP	Plug and Play
SAE	System Architecture Evolution
SON	Self-Organising Networks
TBD	To Be Discussed
UMTS	Universal Mobile Telecommunications System
UTRAN	UMTS Radio Access Network

4 CM data format definition

This clause describes the format of Configuration Management data.

4.1 File content description

Table 4.1 lists all the file content items, provides and explanation of the individual items, and maps the file content items to those used in the XML schema based file format definitions. XML tag attributes are useful where data values bind tightly to its parent element. They have been used where appropriate.

Table 4.1 File Content Description and Mapping of File Content Items to XML tags

File Content Item	XML schema based XML tag	Description
configDataCollection	configDataFile	This is the top-level tag, which identifies the file as a collection of config data. The file content is made up of a header ("configFileHeader"), the collection of configuration items ("configData"), and a configfile footer ("configFileFooter").

File Content Item	XML schema based XML tag	Description
configFileHeader	fileHeader	This is the configuration data file header to be inserted in each file. It includes a version indicator, the vendor name, and vendor name of the sending network node.
configData	configData	The "configData" construct represents the sequence of zero or more configuration parameter items contained in the file. Each "configData" element contains the name of the NE ("nElId") and the list of parameters to be created, modified or deleted which pertaining to that NE. The "configData" consists of DeviceData, DiagnosticsData, and FAPServiceData
configFileFooter	fileFooter	The configuration data file footer to be inserted in each file. It includes a time stamp, which refers to the time when the file is closed for sending to the NE.
fileFormatVersion	fileHeader fileFormatVersion	This parameter identifies the file format version applied by the sender. The format version defined in the present document shall be the abridged number and version of this 3GPP document (see below). The abridged number and version of a 3GPP document is constructed from its version specific full reference "3GPP [...] (yyyy-mm)" by: <ul style="list-style-type: none"> - removing the leading "3GPP TS" - removing everything including and after the version third digit, representing editorial only changes, together with its preceding dot character - from the resulting string, removing leading and trailing white space, replacing every multi character white space by a single space character and changing the case of all characters to uppercase. e.g. "32.584 V8.0"
senderName	fileHeader senderName	If this is a downloaded file from HMS to HNB, then this attribute shall hold the DN of HMS whose name hierarchy is defined section 6.2.1 of TS 32.772 [18]. Example: "DC=a1.companyNN.com,SubNetwork=1,ManagementNode=6, HMSFunction=H3WT2" If this is an uploaded file from HNB to HMS, then this attribute shall hold the DN of HNB. See Note 1 of Table 5.1.. See TS 32.300 [4] for definition of DN.
vendorName	fileHeader vendorName	The "vendorName" identifies the vendor of the equipment that provided the measurement file. The string may be empty (i.e. string size =0) if the "vendorName" is not configured in the sender. For the XML schema based XML format, XML attribute specification "vendorName" may be absent in case the "vendorName" is not configured in the sender.
nElId	managedElement	The unique identification of the NE in the system. It includes the user name ("nEUserName"), the distinguished name ("nEDistinguishedName") and the software version ("nESoftwareVersion") of the NE.
nEUserName	managedElement userLabel	This is the user definable name ("userLabel") defined for the NE in 3GPP TS 32.622 [17]. The string may be empty (i.e. string size =0) if the "nEUserName" is not configured in the CM applications. For the XML schema based XML format, XML attribute specification "userLabel" may be absent in case the "nEUserName" is not configured in the CM applications.
nEDistinguishedName	managedElement localDn	This attribute shall hold the DN of HNB. See Note 1 of Table 5.1. See TS 32.300 [4] for definition of DN.

File Content Item	XML schema based XML tag	Description
neSoftwareVersion	managedElement swVersion	This is the software version ("swVersion") defined for the NE in 3GPP TS 32.622 [17]. This is an optional parameter which allows post-processing systems to take care of vendor specific measurements modified between software versions. For the XML schema based XML format, XML attribute specification "swVersion" may be absent in case the "nESoftwareVersion" is not configured in the CM applications.
Modifier	configData modifier	This element is present if the HMS is required to inform the NE whether the parameter information should be used to create, update or delete an specific object instance on the HNB.. If not present the NE will assume the modification action is update
HNBDataparameters	configData DeviceInfo configData ManagementServer configData Time FAPService DNPrefix FAPService FAPControl FAPService AccessMgmt FAPService CellConfig FAPService Transport FAPService REM FAPService GPS	These elements are present if the HMS requires to modify the specific configuration parameters The XML file format definitions implement the configuration structure and parameter definitions defined in broadband forum 3GPP TS 32.582 [9] and TR-098 Amendment 2 [16].
timestamp	fileFooter dataTime	

A vendor MAY extend the standardized parameter list with vendor-specific parameters and objects. Vendor-specific parameters and objects MAY be defined either in a separate naming hierarchy or within the standardized naming hierarchy of the XML File Format.

The name of a vendor-specific parameter or object not contained within another vendor-specific object MUST have the following form to align with the Vendor Specific Parameter Definition of TR-098 Amendment 2 [16].

- X_<VENDOR>_VendorSpecificName

4.2 XML schema based CM data file format definition

4.2.1 CM data file XML diagram

Figure 4.1 describes the XML element structure of the CM data file.



Figure 4.1: XML diagram of the configuration data file

4.2.2 CM data file XML schema

The following XML schema configData.xsd is the schema for CM data XML files:

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

<!--
  3GPP TS 32.584 Configuration Data XML file format definition
  data file XML schema
  configData.xsd
-->
<schema xmlns:cd="http://www.3gpp.org/ftp/specs/archive/32_series/32.584#configData"
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.584#configData"
  elementFormDefault="qualified">
  <!-- Config data XML elements -->
  <element name="AccessMode">
    <simpleType>
      <restriction base="string">
        <enumeration value="Open Access"/>
        <enumeration value="Closed Access"/>
        <enumeration value="Hybrid Access"/>
      </restriction>
    </simpleType>
  </element>
  <element name="BandIndicator">
    <simpleType>
      <restriction base="string">
        <enumeration value="GSM 850"/>
        <enumeration value="GSM 900"/>
        <enumeration value="DCS 1800"/>
        <enumeration value="PCS 1900"/>
      </restriction>
    </simpleType>
  </element>
  <element name="InServiceHandling">
    <simpleType>
      <restriction base="string">
        <enumeration value="Immediate"/>
        <enumeration value="Delayed"/>
      </restriction>
    </simpleType>
  </element>
  <element name="MeasurementQuantity-Inter">
    <simpleType>
      <restriction base="string">
        <enumeration value="CPICH Ec/No"/>
        <enumeration value="CPICH RSCP"/>
      </restriction>
    </simpleType>
  </element>
  <element name="MeasurementQuantity-Intra">
    <simpleType>
      <restriction base="string">
        <enumeration value="CPICH Ec/No"/>
        <enumeration value="CPICH RSCP"/>
        <enumeration value="Pathloss"/>
      </restriction>
    </simpleType>
  </element>
  <element name="Modifier">
    <simpleType>
      <restriction base="string">
        <enumeration value="create"/>
        <enumeration value="delete"/>
        <enumeration value="update"/>
      </restriction>
    </simpleType>
  </element>
  <element name="NonCSGUEAccessDecision">
    <simpleType>
      <restriction base="string">
        <enumeration value="Local"/>
        <enumeration value="Query FAP-GW"/>
        <enumeration value="By Core"/>
      </restriction>
    </simpleType>
  </element>
</schema>
```

```

</element>
<element name="NonHCSTCRMax">
  <simpleType>
    <restriction base="string">
      <enumeration value="not used"/>
      <enumeration value="30"/>
      <enumeration value="60"/>
      <enumeration value="120"/>
      <enumeration value="180"/>
      <enumeration value="240"/>
    </restriction>
  </simpleType>
</element>
<element name="NonHCSTCRMaxHyst">
  <simpleType>
    <restriction base="string">
      <enumeration value="not used"/>
      <enumeration value="10"/>
      <enumeration value="20"/>
      <enumeration value="30"/>
      <enumeration value="40"/>
      <enumeration value="50"/>
      <enumeration value="60"/>
      <enumeration value="70"/>
    </restriction>
  </simpleType>
</element>
<element name="NumberOfPSCs">
  <simpleType>
    <restriction base="string">
      <enumeration value="5"/>
      <enumeration value="10"/>
      <enumeration value="15"/>
      <enumeration value="20"/>
      <enumeration value="30"/>
      <enumeration value="40"/>
      <enumeration value="50"/>
      <enumeration value="64"/>
      <enumeration value="80"/>
      <enumeration value="120"/>
      <enumeration value="160"/>
      <enumeration value="256"/>
      <enumeration value="alltherest"/>
      <enumeration value="spare3"/>
      <enumeration value="spare2"/>
      <enumeration value="spare1"/>
    </restriction>
  </simpleType>
</element>
<element name="PLMNTType">
  <simpleType>
    <restriction base="string">
      <enumeration value="GSM-MAP"/>
      <enumeration value="ANSI-41"/>
    </restriction>
  </simpleType>
</element>
<element name="QualityMeasureCPICH">
  <simpleType>
    <restriction base="string">
      <enumeration value="Ec/No"/>
      <enumeration value="RSCP"/>
    </restriction>
  </simpleType>
</element>
<element name="TCRMax">
  <simpleType>
    <restriction base="string">
      <enumeration value="not used"/>
      <enumeration value="30"/>
      <enumeration value="60"/>
      <enumeration value="120"/>
      <enumeration value="180"/>
      <enumeration value="240"/>
    </restriction>
  </simpleType>
</element>
<element name="TCRMaxHyst">

```

```

<simpleType>
    <restriction base="string">
        <enumeration value="not used"/>
        <enumeration value="10"/>
        <enumeration value="20"/>
        <enumeration value="30"/>
        <enumeration value="40"/>
        <enumeration value="50"/>
        <enumeration value="60"/>
        <enumeration value="70"/>
    </restriction>
</simpleType>
</element>
<element name="TransferTypeFilter">
    <simpleType>
        <restriction base="string">
            <enumeration value="Upload"/>
            <enumeration value="Download"/>
            <enumeration value="Both"/>
        </restriction>
    </simpleType>
</element>
<element name="DeviceInfo">
    <complexType>
        <sequence>
            <element name="ProvisioningCode" type="string" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="AutonomousTransferCompletePolicy">
    <complexType>
        <sequence>
            <element name="Enable" type="boolean" minOccurs="0"/>
            <element ref="cd:TransferTypeFilter" minOccurs="0"/>
            <element name="FileTypeFilter" type="string" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="ManagementServer">
    <complexType>
        <sequence>
            <element name="URL" type="string" minOccurs="0"/>
            <element name="Username" type="string" minOccurs="0"/>
            <element name="Password" type="string" minOccurs="0"/>
            <element name="PeriodicInformEnable" type="boolean" minOccurs="0"/>
            <element name="PeriodicInformInterval" type="unsignedInt" minOccurs="0"/>
            <element name="PeriodicInformTime" type="dateTime" minOccurs="0"/>
            <element name="ConnectionRequestUsername" type="string" minOccurs="0"/>
            <element name="ConnectionRequestPassword" type="string" minOccurs="0"/>
            <element name="DefaultActiveNotificationThrottle" type="unsignedInt" minOccurs="0"/>
            <element ref="cd:AutonomousTransferCompletePolicy" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="Time">
    <complexType>
        <sequence>
            <element name="Enable" type="boolean" minOccurs="0"/>
            <element name="NTPServer1" type="string" minOccurs="0"/>
            <element name="NTPServer2" type="string" minOccurs="0"/>
            <element name="NTPServer3" type="string" minOccurs="0"/>
            <element name="NTPServer4" type="string" minOccurs="0"/>
            <element name="NTPServer5" type="string" minOccurs="0"/>
            <element name="LocalTimeZoneName" type="string" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="DNPrefix" type="string"/>
<element name="Gateway">
    <complexType>
        <sequence>
            <element name="SecGWServer1" type="string" minOccurs="0"/>
            <element name="SecGWServer2" type="string" minOccurs="0"/>
            <element name="SecGWServer3" type="string" minOccurs="0"/>
            <element name="FAPGWServer1" type="string" minOccurs="0"/>
            <element name="FAPGWServer2" type="string" minOccurs="0"/>
            <element name="FAPGWServer3" type="string" minOccurs="0"/>
            <element name="FAPGWPort" type="unsignedInt" minOccurs="0"/>
        </sequence>
    </complexType>
</element>

```

```

        </sequence>
    </complexType>
</element>
<element name="SelfConfig">
    <complexType>
        <sequence>
            <element name="UARFCNSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="PrimaryScramblingCodeSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="MaxFAPTxPowerSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="PCPICHPowerSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="MaxULTxPowerSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="LACRACURASelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="NeighborListSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="CellReSelectionSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="IntraFreqMeasSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="InterFreqMeasSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="InterRATMeasSelfConfigEnable" type="boolean" minOccurs="0"/>
            <element name="UEInternalMeasConfigEnable" type="boolean" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="UMTS">
    <complexType>
        <sequence>
            <element ref="cd:SelfConfig" minOccurs="0"/>
            <element ref="cd:Gateway" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="AdminState" type="boolean"/>
<element name="SelfConfigEvents" type="string"/>
<element name="EnclosureTamperingDetected" type="boolean"/>
<element name="FAPControl">
    <complexType>
        <sequence>
            <element ref="cd:AdminState" minOccurs="0"/>
            <element ref="cd:SelfConfigEvents" minOccurs="0"/>
            <element ref="cd:EnclosureTamperingDetected" minOccurs="0"/>
            <element ref="cd:UMTS" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="CSGMembershipDeterminedLocally" type="boolean"/>
<element name="HNBNName" type="string"/>
<element name="HomeZoneName">
    <simpleType>
        <restriction base="string">
            <maxLength value="48"/>
        </restriction>
    </simpleType>
</element>
<element name="MaxConcurrentCSGUsers" type="integer"/>
<element name="CSGID" type="unsignedInt"/>
<element name="AccessControlList" type="string"/>
<element name="MemberDetail">
    <complexType>
        <sequence>
            <element ref="cd:Modifier" minOccurs="0"/>
            <element name="Enable" type="boolean" minOccurs="0"/>
            <element name="IMSI" type="string" minOccurs="0"/>
            <element name="MSISDN" type="string" minOccurs="0"/>
            <element name="MembershipExpires" type="dateTime" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="AccessMgmt">
    <complexType>
        <sequence>
            <element ref="cd:AccessMode" minOccurs="0"/>
            <element ref="cd:NonCSGUEAccessDecision" minOccurs="0"/>
            <element ref="cd:CSGMembershipDeterminedLocally" minOccurs="0"/>
            <element ref="cd:HNBNName" minOccurs="0"/>
            <element ref="cd:HomeZoneName" minOccurs="0"/>
            <element ref="cd:MaxConcurrentCSGUsers" minOccurs="0"/>
            <element ref="cd:CSGID" minOccurs="0"/>
            <element ref="cd:AccessControlList" minOccurs="0"/>
            <element ref="cd:MemberDetail" minOccurs="0" maxOccurs="unbounded"/>
            <element ref="cd:LocalIPAccess" minOccurs="0"/>
        </sequence>
    </complexType>
</element>

```

```

        </sequence>
    </complexType>
</element>
<element name="CN">
    <complexType>
        <sequence>
            <element ref="cd:PLMNTYPE" minOccurs="0"/>
            <element name="PLMNID" type="string" minOccurs="0"/>
            <element name="EquivPLMNID" type="string" minOccurs="0"/>
            <element name="SAC" type="unsignedInt" minOccurs="0"/>
            <element name="LACRAC" type="string" minOccurs="0"/>
            <element name="CSDomain" minOccurs="0">
                <complexType>
                    <sequence>
                        <element name="T3212" type="unsignedInt" minOccurs="0"/>
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minOccurs="0"/>
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        </sequence>
    </complexType>
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            <element name="CSGPSCSplitInfo" minOccurs="0">
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                    <sequence>
                        <element name="StartPSCRANGE1Coefficient" type="unsignedInt"
minOccurs="0"/>
                        <element ref="cd:NumberOfPSCs" minOccurs="0"/>
                        <element name="PSCRANGE2Offset" type="unsignedInt" minOccurs="0"/>
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                </complexType>
            </element>
        </sequence>
    </complexType>
</element>
<element name="CellSelection">
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            <element ref="cd:QualityMeasureCPICH" minOccurs="0"/>
            <element name="QQualMin" type="integer" minOccurs="0"/>
            <element name="QQualMinOffset" type="unsignedInt" minOccurs="0"/>
            <element name="QRxLevMin" type="integer" minOccurs="0"/>
            <element name="DeltaQRxLevMin" type="integer" minOccurs="0"/>
            <element name="QRxLevMinOffset" type="unsignedInt" minOccurs="0"/>
            <element name="QHyst1s" type="unsignedInt" minOccurs="0"/>
            <element name="QHyst2s" type="unsignedInt" minOccurs="0"/>
            <element name="TRselections" type="unsignedInt" minOccurs="0"/>
            <element name="SIntrasearch" type="integer" minOccurs="0"/>
            <element name="SIntersearch" type="integer" minOccurs="0"/>
            <element name="SSearchHCS" type="integer" minOccurs="0"/>
            <element name="SSearchRAT" type="integer" minOccurs="0"/>
            <element name="SHCSRAT" type="integer" minOccurs="0"/>
            <element name="SLimitSearchRAT" type="integer" minOccurs="0"/>
            <element ref="cd:NonHCSTCRMax" minOccurs="0"/>
            <element name="NonHCSNCR" type="unsignedInt" minOccurs="0"/>
            <element ref="cd:NonHCSTCRMaxHyst" minOccurs="0"/>
            <element name="QHCS" type="unsignedInt" minOccurs="0"/>
            <element name="UseOfHCS" type="boolean" minOccurs="0"/>
            <element name="HCSPriority" type="unsignedInt" minOccurs="0"/>
            <element ref="cd:TCRMax" minOccurs="0"/>
            <element name="NCR" type="unsignedInt" minOccurs="0"/>
            <element ref="cd:TCRMaxHyst" minOccurs="0"/>
            <element name="UETxPwrMaxRACH" type="integer" minOccurs="0"/>
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    </complexType>
</element>

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<element name="RRCTimers">
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      <element name="T302" type="unsignedInt" minOccurs="0"/>
      <element name="T304" type="unsignedInt" minOccurs="0"/>
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      <element name="T307" type="unsignedInt" minOccurs="0"/>
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      <element name="T310" type="unsignedInt" minOccurs="0"/>
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      <element name="T313" type="unsignedInt" minOccurs="0"/>
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      <element name="N302" type="unsignedInt" minOccurs="0"/>
      <element name="N304" type="unsignedInt" minOccurs="0"/>
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      <element name="WaitTime" type="unsignedInt" minOccurs="0"/>
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  </complexType>
</element>
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    </sequence>
  </complexType>
</element>
<element name="PowerControl">
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      <element name="ConstantValue" type="integer" minOccurs="0"/>
      <element name="PowerRampStepUp" type="unsignedInt" minOccurs="0"/>
      <element name="PreambleRetransMax" type="unsignedInt" minOccurs="0"/>
      <element name="PersistenceScaleFactor" type="unsignedInt" minOccurs="0"/>
      <element name="MMax" type="unsignedInt" minOccurs="0"/>
      <element name="NB01Min" type="unsignedInt" minOccurs="0"/>
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</element>
<element name="CellRestriction">
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      <element name="IntraFreqCellReselectionIndicator" type="boolean" minOccurs="0"/>
      <element name="TBarred" type="unsignedInt" minOccurs="0"/>
      <element name="AccessClassBarredListCS" type="string" minOccurs="0"/>
      <element name="AccessClassBarredListPS" type="string" minOccurs="0"/>
      <element name="CellReservedForOperatorUse" type="boolean" minOccurs="0"/>
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  </complexType>
</element>
<element name="IntraFreqMeas">
  <complexType>
    <sequence>
      <element ref="cd:MeasurementQuantity-Intra" minOccurs="0"/>
      <element name="FilterCoefficient" type="unsignedInt" minOccurs="0"/>
      <element name="IntraFrequencyEventIdentity" type="string" minOccurs="0"/>
      <element name="TriggeringCondition2Event1a" type="string" minOccurs="0"/>
      <element name="TriggeringCondition1Event1b" type="string" minOccurs="0"/>
      <element name="TriggeringCondition2Event1e" type="string" minOccurs="0"/>
      <element name="TriggeringCondition1Event1f" type="string" minOccurs="0"/>
      <element name="ReportingRangeEvent1a" type="unsignedInt" minOccurs="0"/>
      <element name="ReportingRangeEvent1b" type="unsignedInt" minOccurs="0"/>
      <element name="WeightingFactorEvent1a" type="unsignedInt" minOccurs="0"/>
    </sequence>
  </complexType>
</element>

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        <element name="WeightingFactorEvent1b" type="unsignedInt" minOccurs="0"/>
        <element name="ReportDeactivationThresholdEvent1a" type="unsignedInt"
minOccurs="0"/>
        <element name="ReportingAmountEvent1a" type="integer" minOccurs="0"/>
        <element name="ReportingAmountEvent1c" type="integer" minOccurs="0"/>
        <element name="ReportingIntervalEvent1a" type="unsignedInt" minOccurs="0"/>
        <element name="ReportingIntervalEvent1c" type="unsignedInt" minOccurs="0"/>
        <element name="HysteresisEvent1a" type="unsignedInt" minOccurs="0"/>
        <element name="HysteresisEvent1b" type="unsignedInt" minOccurs="0"/>
        <element name="HysteresisEvent1c" type="unsignedInt" minOccurs="0"/>
        <element name="HysteresisEvent1e" type="unsignedInt" minOccurs="0"/>
        <element name="HysteresisEvent1f" type="unsignedInt" minOccurs="0"/>
        <element name="TimeToTriggerEvent1a" type="unsignedInt" minOccurs="0"/>
        <element name="TimeToTriggerEvent1b" type="unsignedInt" minOccurs="0"/>
        <element name="TimeToTriggerEvent1c" type="unsignedInt" minOccurs="0"/>
        <element name="TimeToTriggerEvent1e" type="unsignedInt" minOccurs="0"/>
        <element name="TimeToTriggerEvent1f" type="unsignedInt" minOccurs="0"/>
        <element name="ThresholdUsedFrequencyEvent1e" type="integer" minOccurs="0"/>
        <element name="ThresholdUsedFrequencyEvent1f" type="integer" minOccurs="0"/>
        <element name="ReplacementActivationThresholdEvent1c" type="unsignedInt"
minOccurs="0"/>
    
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</sequence>

</complexType>

</element>

<element name="InterFreqMeas">

<complexType>

<sequence>

<element ref="cd:MeasurementQuantity-Inter" minOccurs="0"/>

<element name="FilterCoefficient" type="unsignedInt" minOccurs="0"/>

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<element name="WeightingFactorEvent2a" type="unsignedInt" minOccurs="0"/>

<element name="WeightingFactorEvent2b" type="unsignedInt" minOccurs="0"/>

<element name="WeightingFactorEvent2d" type="unsignedInt" minOccurs="0"/>

<element name="WeightingFactorEvent2f" type="unsignedInt" minOccurs="0"/>

<element name="HysteresisEvent2a" type="unsignedInt" minOccurs="0"/>

<element name="HysteresisEvent2b" type="unsignedInt" minOccurs="0"/>

<element name="HysteresisEvent2d" type="unsignedInt" minOccurs="0"/>

<element name="HysteresisEvent2f" type="unsignedInt" minOccurs="0"/>

<element name="TimeToTriggerEvent2a" type="unsignedInt" minOccurs="0"/>

<element name="TimeToTriggerEvent2b" type="unsignedInt" minOccurs="0"/>

<element name="TimeToTriggerEvent2d" type="unsignedInt" minOccurs="0"/>

<element name="TimeToTriggerEvent2f" type="unsignedInt" minOccurs="0"/>

<element name="ThresholdUsedFrequencyEvent2b" type="integer" minOccurs="0"/>

<element name="ThresholdUsedFrequencyEvent2d" type="integer" minOccurs="0"/>

<element name="ThresholdUsedFrequencyEvent2f" type="integer" minOccurs="0"/>

</sequence>

</complexType>

</element>

<element name="InterRATMeas">

<complexType>

<sequence>

<element name="GSMFilterCoefficient" type="unsignedInt" minOccurs="0"/>

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

<element name="WeightingFactor" type="unsignedInt" minOccurs="0"/>

<element name="Hysteresis" type="unsignedInt" minOccurs="0"/>

<element name="TimeToTrigger" type="unsignedInt" minOccurs="0"/>

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

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</complexType>

</element>

<element name="UEInternalMeas">

<complexType>

<sequence>

<element name="FilterCoefficient" type="unsignedInt" minOccurs="0"/>

<element name="UETxPwrThresholdEvent6a" type="integer" minOccurs="0"/>

<element name="TimeToTriggerEvent6a" type="unsignedInt" minOccurs="0"/>

<element name="UETxPwrThresholdEvent6b" type="integer" minOccurs="0"/>

<element name="TimeToTriggerEvent6b" type="unsignedInt" minOccurs="0"/>

</sequence>

</complexType>

</element>

<element name="RF">

<complexType>

<sequence>

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

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

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

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<element name="MaxFAPTxPower" type="string" minOccurs="0"/>
<element name="MaxULTxPower" type="string" minOccurs="0"/>
<element name="PCPICHPower" type="string" minOccurs="0"/>
<element name="PowerOffsetPilotDPDCH" type="unsignedInt" minOccurs="0"/>
<element name="FAPCoverageTarget" type="unsignedInt" minOccurs="0"/>
<element name="PSCHPower" type="integer" minOccurs="0"/>
<element name="SSCHPower" type="integer" minOccurs="0"/>
<element name="PICHPower" type="integer" minOccurs="0"/>
<element name="PCHPower" type="integer" minOccurs="0"/>
<element name="FACHPower" type="integer" minOccurs="0"/>
<element name="BCHPower" type="integer" minOccurs="0"/>
<element name="AICHPower" type="integer" minOccurs="0"/>
<element name="CTCHAllocationPeriod" type="unsignedInt" minOccurs="0"/>
<element name="CBSFrameOffset" type="unsignedInt" minOccurs="0"/>
<element name="MaxTTI" type="unsignedInt" minOccurs="0"/>
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</element>
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    <sequence>
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      <element name="MustInclude" type="boolean" minOccurs="0"/>
      <element name="PLMNID" type="string" minOccurs="0"/>
      <element name="RNCID" type="unsignedInt" minOccurs="0"/>
      <element name="CID" type="unsignedInt" minOccurs="0"/>
      <element name="LAC" type="unsignedInt" minOccurs="0"/>
      <element name="RAC" type="unsignedInt" minOccurs="0"/>
      <element name="URA" type="unsignedInt" minOccurs="0"/>
      <element name="PCPICHScramblingCode" type="unsignedInt" minOccurs="0"/>
      <element name="PCPICHTxPower" type="integer" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="InterFreqCell">
  <complexType>
    <sequence>
      <element ref="cd:Modifier" minOccurs="0"/>
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      <element name="MustInclude" type="boolean" minOccurs="0"/>
      <element name="PLMNID" type="string" minOccurs="0"/>
      <element name="RNCID" type="unsignedInt" minOccurs="0"/>
      <element name="CID" type="unsignedInt" minOccurs="0"/>
      <element name="LAC" type="unsignedInt" minOccurs="0"/>
      <element name="RAC" type="unsignedInt" minOccurs="0"/>
      <element name="URA" type="unsignedInt" minOccurs="0"/>
      <element name="UARFCNUL" type="unsignedInt" minOccurs="0"/>
      <element name="UARFCNDL" type="unsignedInt" minOccurs="0"/>
      <element name="PCPICHScramblingCode" type="unsignedInt" minOccurs="0"/>
      <element name="PCPICHTxPower" type="integer" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="InterRATCell">
  <complexType>
    <sequence>
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            <element name="Enable" type="boolean" minOccurs="0"/>
            <element name="MustInclude" type="boolean" minOccurs="0"/>
            <element name="PLMNID" type="string" minOccurs="0"/>
            <element name="LAC" type="unsignedInt" minOccurs="0"/>
            <element name="BSIC" type="unsignedInt" minOccurs="0"/>
            <element name="CI" type="unsignedInt" minOccurs="0"/>
            <element ref="cd:BandIndicator" minOccurs="0"/>
            <element name="BCCHARFCN" type="unsignedInt" minOccurs="0"/>
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        </complexType>
      </element>
    </sequence>
  </complexType>
</element>
<element name="NeighborList">
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        <element ref="cd:InterFreqCell" minOccurs="0" maxOccurs="unbounded"/>
        <element ref="cd:InterRATCell" minOccurs="0"/>
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</element>
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        <sequence>
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            <element name="HSEnable" type="boolean" minOccurs="0"/>
            <element name="NumOfHSPDSCHs" type="unsignedInt" minOccurs="0"/>
            <element name="NumOfHSSCCHs" type="unsignedInt" minOccurs="0"/>
            <element ref="cd:CellSelection" minOccurs="0"/>
            <element ref="cd:RRCTimers" minOccurs="0"/>
            <element ref="cd:DRX" minOccurs="0"/>
            <element ref="cd:PowerControl" minOccurs="0"/>
            <element ref="cd:CellRestriction" minOccurs="0"/>
            <element ref="cd:IntraFreqMeas" minOccurs="0"/>
            <element ref="cd:InterFreqMeas" minOccurs="0"/>
            <element ref="cd:InterRATMeas" minOccurs="0"/>
            <element ref="cd:UEInternalMeas" minOccurs="0"/>
            <element ref="cd:RF" minOccurs="0"/>
            <element ref="cd:NeighborList" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
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    <complexType>
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            <element name="URAList" type="string" minOccurs="0"/>
            <element name="RNCID" type="unsignedInt" minOccurs="0"/>
            <element name="CellID" type="unsignedInt" minOccurs="0"/>
            <element name="HNBIDRealm" type="string" minOccurs="0"/>
            <element name="TRatC" type="unsignedInt" minOccurs="0"/>
            <element name="TRafcC" type="unsignedInt" minOccurs="0"/>
            <element name="NRafcC" type="unsignedInt" minOccurs="0"/>
            <element name="TigOR" type="unsignedInt" minOccurs="0"/>
            <element name="TinTR" type="unsignedInt" minOccurs="0"/>
            <element name="TDataFwd" type="unsignedInt" minOccurs="0"/>
            <element name="TRelocPrep" type="unsignedInt" minOccurs="0"/>
            <element name="TRelocOverall" type="unsignedInt" minOccurs="0"/>
            <element ref="cd:CSG" minOccurs="0"/>
            <element ref="cd:FDDFAP" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
<element name="CellConfig">
    <complexType>
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                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>
<element name="SCTP">
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            <element name="HBInterval" type="unsignedInt" minOccurs="0"/>
            <element name="MaxAssociationRetransmits" type="unsignedInt" minOccurs="0"/>
            <element name="MaxInitRetransmits" type="unsignedInt" minOccurs="0"/>
            <element name="MaxPathRetransmits" type="unsignedInt" minOccurs="0"/>
            <element name="RTOInitial" type="unsignedInt" minOccurs="0"/>
            <element name="RTOMax" type="unsignedInt" minOccurs="0"/>
            <element name="RTOMin" type="unsignedInt" minOccurs="0"/>
            <element name="ValCookieLife" type="unsignedInt" minOccurs="0"/>
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    </complexType>
</element>
<element name="RealTime">
    <complexType>

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        </sequence>
    </complexType>
</element>
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        <sequence>
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    </complexType>
</elements>
<element name="IPsec">
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        <sequence>
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    </complexType>
</element>
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                        <element ref="cd:Modifier" minOccurs="0"/>
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                        <element name="DSCPMarkPolicy" type="integer" minOccurs="0"/>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>
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                    </sequence>
                </complexType>
            <element name="Pkey" minOccurs="0" maxOccurs="unbounded">
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                    <sequence>
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                </complexType>
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                <complexType>
                    <sequence>
                        <element ref="cd:Modifier" minOccurs="0"/>
                        <element name="Enable" type="boolean" minOccurs="0"/>
                        <element name="AuthMethod" type="string"/>
                        <element name="MaxChildSA" type="unsignedInt" minOccurs="0"/>
                        <element name="IKEEncrypt" type="string"/>
                        <element name="IKEPRF" type="string"/>
                        <element name="IKEIntegrity" type="string"/>
                        <element name="IKEDH" type="string"/>
                        <element name="ESPEncrypt" type="string"/>
                        <element name="ESPIntegrity" type="string"/>
                        <element name="IPsecWindowSize" type="unsignedInt" minOccurs="0"/>
                        <element name="IKERekeyLifetime" type="unsignedInt" minOccurs="0"/>
                        <element name="IPsecRekeyLifetimeByte" type="unsignedInt"
minOccurs="0"/>
                        <element name="IPsecRekeyLifetimeTime" type="unsignedInt"
minOccurs="0"/>
                        <element name="DPDTimer" type="unsignedInt" minOccurs="0"/>
                        <element name="NATTKeepaliveTimer" type="unsignedInt" minOccurs="0"/>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>

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</element>
<element name="Transport">
  <complexType>
    <sequence>
      <element ref="cd:SCTP" minOccurs="0"/>
      <element ref="cd:RealTime" minOccurs="0"/>
      <element ref="cd:Packet" minOccurs="0"/>
      <element ref="cd:IPsec" minOccurs="0"/>
      <element ref="cd:Tunnel" minOccurs="0"/>
      <element ref="cd:Security" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="WCDMAFDD">
  <complexType>
    <sequence>
      <element ref="cd:InServiceHandling" minOccurs="0"/>
      <element name="ScanOnBoot" type="boolean" minOccurs="0"/>
      <element name="ScanPeriodically" type="boolean" minOccurs="0"/>
      <element name="PeriodicInterval" type="unsignedInt" minOccurs="0"/>
      <element name="PeriodicTime" type="dateTime" minOccurs="0"/>
      <element name="REMPLMNList" type="string" minOccurs="0"/>
      <element name="REMBandList" type="string" minOccurs="0"/>
      <element name="UARFCNDLList" type="string" minOccurs="0"/>
      <element name="ScanTimeout" type="unsignedInt" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="GSM">
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      <element name="ScanPeriodically" type="boolean" minOccurs="0"/>
      <element name="PeriodicInterval" type="unsignedInt" minOccurs="0"/>
      <element name="PeriodicTime" type="dateTime" minOccurs="0"/>
      <element name="REMPLMNList" type="string" minOccurs="0"/>
      <element name="REMBandList" type="string" minOccurs="0"/>
      <element name="ARFCNList" type="string" minOccurs="0"/>
      <element name="ScanTimeout" type="unsignedInt" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="REM">
  <complexType>
    <sequence>
      <element ref="cd:WCDMAFDD" minOccurs="0"/>
      <element ref="cd:GSM" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="GPS">
  <complexType>
    <sequence>
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      <element name="ScanPeriodically" type="boolean" minOccurs="0"/>
      <element name="PeriodicInterval" type="unsignedInt" minOccurs="0"/>
      <element name="PeriodicTime" type="dateTime" minOccurs="0"/>
      <element name="ContinuousGPS" type="boolean" minOccurs="0"/>
      <element name="ScanTimeout" type="unsignedInt" minOccurs="0"/>
    </sequence>
  </complexType>
</element>

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    <sequence>
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          <attribute name="senderName" type="string" use="optional"/>
          <attribute name="vendorName" type="string" use="optional"/>
        </complexType>
      </element>
      <element name="configData" minOccurs="0" maxOccurs="unbounded">
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            <element name="managedElement">

```

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<complexType>
    <attribute name="localDn" type="string" use="optional"/>
    <attribute name="userLabel" type="string" use="optional"/>
    <attribute name="swVersion" type="string" use="optional"/>
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</element>
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<element ref="cd:ManagementServer" minOccurs="0"/>
<element ref="cd:Time" minOccurs="0"/>
<element name="FAPService" minOccurs="0" maxOccurs="unbounded">
    <complexType>
        <sequence>
            <element ref="cd:DNPrefix" minOccurs="0"/>
            <element ref="cd:FAPControl" minOccurs="0"/>
            <element ref="cd:AccessMgmt" minOccurs="0"/>
            <element ref="cd:CellConfig" minOccurs="0"/>
            <element ref="cd:Transport" minOccurs="0"/>
            <element ref="cd:REM" minOccurs="0"/>
            <element ref="cd:GPS" minOccurs="0"/>
        </sequence>
    </complexType>
</element>
</sequence>
</complexType>
</element>
<element name="fileFooter">
    <complexType>
        <attribute name="dateTime" type="dateTime" use="required"/>
    </complexType>
</element>
</sequence>
</complexType>
</element>
</schema>

```

4.2.3 CM data file XML header

The following header shall be used in actual XML CM data files:

```

<?xml version="1.0" encoding="UTF-8"?>
<?xmlstylesheet type="text/xsl" href="configData.xsl"?>
<ConfigDataFile
    xmlns=
    "http://www.3gpp.org/ftp/specs/archive/32_series/32.584#configData"
>
```

5 PM data format definition

5.1 Mapping table

Table 5.1 maps the PM file content items in the 3GPP TS 32.582 [9] document to those used in the XML schema based file format definitions. XML tag attributes are useful where data values bind tightly to its parent element. They have been used where appropriate.

Table 5.1 Mapping of File Content Items to XML tags

File Content Item	XML schema based XML tag	Description
measDataCollection	measCollecFile	
measFileHeader	fileHeader	
measData	measData	
measFileFooter	fileFooter	
fileFormatVersion	fileHeader fileFormatVersion	

File Content Item	XML schema based XML tag	Description
senderName	fileHeader dnPrefix and fileSender localDn	This attribute shall hold the DN of HNB. See Note 1. See TS 32.300 [4] for definition of DN.
senderType	fileSender elementType	For the XML schema based XML format, XML attribute specification "elementType" may be absent in case the "senderType" is not configured in the sender.
vendorName	fileHeader vendorName	For the XML schema based XML format, XML attribute specification "vendorName" may be absent in case the "vendorName" is not configured in the sender.
collectionBeginTime	measCollec beginTime	3GPP TS 32.582 [9] clause 6.3.2.1 Period Statistics "ReportStartTime"
neld	managedElement	
neUserName	managedElement userLabel	For the XML schema based XML format, XML attribute specification "userLabel" may be absent in case the "nEUserName" is not configured in the CM applications. Not used in HNB PM file
neDistinguishedName	fileHeader dnPrefix and managedElement localDn	This attribute shall hold the DN of HNB. See Note 1. See TS 32.300 [4] for definition of DN.
neSoftwareVersion	managedElement swVersion	For the XML schema based XML format, XML attribute specification "swVersion" may be absent in case the "nESoftwareVersion" is not configured in the CM applications. Not used in HNB PM file
measInfo	measInfo	
measInfoId	measInfoId	
measTimeStamp	granPeriod endTime	Calculated from the 3GPP TS 32.582 [9] clause 6.3.2.1 Period Statistics "ReportStartTime" + accumulation of the 3GPP TS 32.582 [9] clause 6.3.2.1 Period Statistics "SampleSeconds"
jobId	Job jobId	Not used in HNB PM file
granularityPeriod	granPeriod duration	For the XML schema based XML format, the value of XML attribute specification "duration" shall use the truncated representation "PTnS" (see [13]). 3GPP TS 32.582 [9] clause 6.3.2.1 Period Statistics "SampleInterval"
reportingPeriod	repPeriod duration	For the XML schema based XML format, the value of XML attribute specification "duration" shall use the truncated representation "PTnS" (see [13]). 3GPP TS 32.582 [9] clause 6.3.1.1 Period Upload Interval
measTypes	measTypes or measType	For the XML schema based XML format, depending on sender's choice for optional positioning presence, either XML element "measTypes" or XML elements "measType" will be used. 3GPP TS 32.582 [9] clause 6.3.2.2 Period Statistics Reference
measValues	measValue	
measObjInstId	measValue measObjLdn	Identifier of the Managed Object (see TS 32.432 [20].)
measResults	measResults or R	For the XML schema based XML format, depending on sender's choice for optional positioning presence, either XML element "measResults" or XML elements "r" will be used. Broadband Forum data object PeriodicStatistics.SampleSet.{i}.Parameter.{i}.Values (see TR-157 Amendment 1 [15])
suspectFlag	Suspect	Not used in HNB PM file
timeStamp	measCollec endTime	3GPP TS 32.582 [9] clause 6.3.2.1 Period Statistics ReportEndTime
There is no corresponding File Content Item.	measType p	An optional positioning XML attribute specification of XML element "measType" (XML schema based), used to identify a measurement type for the purpose of correlation to a result. The value of this XML attribute specification is expected to be a non-zero, non-negative integer value that is unique for each instance of XML element "measType" that is contained within the measurement data collection file. Not used in HNB PM file

File Content Item	XML schema based XML tag	Description
There is no corresponding File Content Item.	r p	An optional positioning XML attribute specification of XML element "r", used to correlate a result to a measurement type. The value of this XML attribute specification should match the value of XML attribute specification "p" of the corresponding XML element "measType" (XML schema based). Not used in HNB PM file

NOTE: There are two forms of naming for HNB. Implementation can choose to use one of the two.

1. The full DN: The name hierarchy is defined by TS 32.772 [18]. DN Prefix may or may not be present. The value for the 'id' for HNB is a string and is the HNB Identifier or HNB Name (see Annex C Table C.1 of TS 22.220 [19]).

Example 1: "DC=a1.companyNN.com,SubNetwork=1,ManagementNode=6, HMSFunction=99,HNB=abc1234"

2. There is no name hierarchy. It is a string and it is the value of the HNB Identifier or HNB Name (see Annex C Table C.1 of TS 22.220 [19]).

Example 2: "abc1234"

The representation of all timestamps in PM files shall follow the representations allowed by the ISO 8601 [abc].

The precise format for timestamp representation shall be determined by the technology used for encoding the PM file (e.g. XML DTD, XML Schema). The choice of technology should ensure that this representation is derived from ISO 8601 [abc]. Based on the representation used, the timestamp shall refer to either UTC time or local time or local time with offset from UTC.

5.2 XML schema based PM data file format definition

5.2.1 PM data file XML diagram

For the purposes of the present document XML diagram in TS 32.435 [8] section 4.2.1 applies.

5.2.2 PM data file XML schema

For the purposes of the present document XML schema in TS 32.435 [8] section 4.2.2 applies.

5.2.2 PM data file XML header

For the purposes of the present document XML header in TS 32.435 [8] section 4.2.3 applies.

Annex A (informative): Examples

A.1 XML schema based CM data file

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="ConfigData.xsl"?>
<configDataFile xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.584# configData"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.584#configData"
http://www.3gpp.org/ftp/specs/archive/32_series/32.584#configData">
    <fileHeader fileFormatVersion="32.584 V1.0" vendorName="Company NN" >
    </fileHeader>
    <configData>
        <managedElement localDn="SubNetwork=CountryNN,MeContext=MEC-Gbg-1,ManagedElement=RNC-Gbg-1"
userLabel="RNC Telecomville"/>
            <DeviceInfo>
                <ProvisioningCode>0101</ProvisioningCode>
            </DeviceInfo>
    </configData>
    <fileFooter dateTime="2000-03-01T14:15:00+02:00">
    </fileFooter>
</configDataFile>
```

A.2 XML schema based PM data file

For the purposes of the present document the examples in TS 32.435 [8] Annex A apply.

Annex B (informative):
Void

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2009-06	SA#44	SP-090302	--	--	Presentation for information and approval	1.0.0	8.0.0
2009-09	SA#45	SP-090534	001	-	Correct global modifier of XML file for CM to instance specific modifier	8.0.0	8.1.0
2009-09	SA#45	SP-090534	002	-	Correct FAPService.{i}.Transport.Security.Secret.{i}. object definitions	8.0.0	8.1.0
2009-09	SA#45	SP-090539	003	-	Change CM file per contribution to BBF	8.0.0	8.1.0
2009-12	SA-46	SP-090719	004	--	Discontinuation of the maintenance of WSDL/XML schema folders	8.1.0	9.0.0
2010-03	SA#47	SP-100035	005	--	Update references to BBF TR-157	9.0.0	9.1.0
2010-03	SA#47	SP-100035	006	--	The element definition of 'Home Zone name' modification	9.0.0	9.1.0
2010-09	SA#49	SP-100488	007	--	Clarify the description of attributes using Distinguished Name	9.1.0	9.2.0
2011-03	SA#51	SP-110099	008	--	Add LIPA access management XML element	9.2.0	10.0.0
2011-06	SA#52	SP-110288	010	1	Correction of XML definition for HNB non-IPsec usage - alignment with 33.320	10.0.0	10.1.0
2012-09	-	-	-	-	Update to Rel-11 version (MCC)	10.1.0	11.0.0
2014-10	-	-	-	-	Update to Rel-12 version (MCC)	11.0.0	12.0.0

History

Document history		
V12.0.0	October 2014	Publication