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**Source:** SA5 (Telecom Management)  
**Title:** Rel-4 CR 32.615 (S5-010766)  
**Document for:** Decision  
**Agenda Item:** 7.5.3

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Doc-1st-	Spec	CR	Phas	Subject	C	Versi	Versi	Doc-2nd-	Workitem
SP-010645	32.615	001	Rel-4	Addition of MCC and MNC attributes to GSM cell related MOCs in Bulk CM XML file format	F	4.0.0	4.1.0	S5-010766	OAM-CM

## CHANGE REQUEST

⌘ **32.615 CR 001** ⌘ rev **-** ⌘ Current version: **4.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ Addition of MCC and MNC attributes to GSM cell related MOCs in Bulk CM XML file format		
<b>Source:</b>	⌘ SA5		
<b>Work item code:</b>	⌘ OAM-CM <span style="float: right;"><b>Date:</b> ⌘ 30/11/2001</span>		
<b>Category:</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;">                 ⌘ <b>F</b>                  Use <u>one</u> of the following categories:  <b>F</b> (correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (addition of feature),  <b>C</b> (functional modification of feature)  <b>D</b> (editorial modification)                  Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.             </td> <td style="width: 50%; vertical-align: top;"> <b>Release:</b> ⌘ REL-4                  Use <u>one</u> of the following releases:                  2 (GSM Phase 2)                  R96 (Release 1996)                  R97 (Release 1997)                  R98 (Release 1998)                  R99 (Release 1999)                  REL-4 (Release 4)                  REL-5 (Release 5)             </td> </tr> </table>	⌘ <b>F</b> Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	<b>Release:</b> ⌘ REL-4 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
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<b>Reason for change:</b>	⌘ Attributes MCC (Mobile Country Code) and MNC (Mobile Network Code), present on MOCs GsmCell and ExternalGsmCell in GERAN NRM (32.652), are missing in Bulk CM GERAN NRM-specific XML schema (32.615).
<b>Summary of change:</b>	⌘ <ul style="list-style-type: none"> <li>◆ Addition of MCC and MNC attributes to GsmCell and ExternalGsmCell MOC-corresponding XML elements in GERAN NRM-specific XML schema.</li> <li>◆ Corrections of wrong references to XML schemas.</li> <li>◆ Corrections of wrong references to number and version of the TS.</li> <li>◆ Editorial modifications.</li> </ul>
<b>Consequences if not approved:</b>	⌘ Bulk CM GERAN XML schema would be inconsistent with GERAN NRM.

<b>Clauses affected:</b>	⌘ <ul style="list-style-type: none"> <li>- Annex B (MCC and MNC)</li> <li>- 4.4 (XML schema reference)</li> <li>- 4.2.1, Annex A, Annex B, Annex D (TS number/version reference)</li> <li>- 4.1, 4.3 (purely editorial)</li> </ul>												
<b>Other specs affected:</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">⌘ <input type="checkbox"/></td> <td style="width: 55%;">Other core specifications</td> <td style="width: 15%;">⌘</td> <td style="width: 15%;"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Test specifications</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>O&amp;M Specifications</td> <td></td> <td></td> </tr> </table>	⌘ <input type="checkbox"/>	Other core specifications	⌘		<input type="checkbox"/>	Test specifications			<input type="checkbox"/>	O&M Specifications		
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<b>Other comments:</b>	⌘												

## 4.1 Global structure

The content of a configuration data XML file is the succession of:

- the standard XML declaration with specification of the version of XML and of the character encoding being used (see [2])
- a ~~bulkCmConfigDataFile~~ bulkCmConfigDataFile XML element; this is the root XML element of configuration data XML files



### 4.2.1 XML element fileHeader



The following is an example of a fileHeader XML element:

```
<fileHeader
  fileFormatVersion="32.602-5615 V4.01"
  senderName="DC=a1.companyNN.com,SubNetwork=1,IRPAgent=1"
  vendorName="Company NN"
/>
```



## 4.3 XML element configData

As defined by the following extract of XML schema bulkCmConfigDataFile.xsd (see Annex A):

```
<element name="configData" maxOccurs="unbounded">
  <complexType>
    <attribute name="dnPrefix" type="string" use="optional"/>
    <choice>
      <element ref="xn:SubNetwork"/>
      <element ref="xn:MeContext"/>
      <element ref="xn:ManagedElement"/>
    </choice>
  </complexType>
</element>
```

a configData XML element:

- has an optional dnPrefix XML attribute specification; this attribute specification carries the DN Prefix information as defined in Annex C of 32.300 [7]

~~— and its XML content is an instance of the specific type of XML element (see below) corresponding to one of the NRM classes SubNetwork, MeContext or ManagedElement (see [8]); depending on the System Context of the IRP (see [1]) the used NRM class shall be:~~

- and its XML content is an instance of the specific type of XML element (see below) corresponding to one of the NRM classes SubNetwork, MeContext or ManagedElement (see [8]); depending on the System Context of the IRP (see [1]) the used NRM class shall be:

~~— in case of System Context A, only SubNetwork NRM class, or~~

- in case of System Context A, only SubNetwork NRM class, or

~~— in case of System Context B, only MeContext or ManagedElement NRM class~~

- in case of System Context B, only MeContext or ManagedElement NRM class

...

## 4.4 XML attribute specification modifier

As defined by the following extract of XML schema [bulkCmConfigDataFile.xsd](#) [genericNrm.xsd](#) (see Annex [AB](#)):

```
<attribute name="modifier" use="optional">
  <simpleType>
    <restriction base="string">
      <enumeration value="create"/>
      <enumeration value="delete"/>
      <enumeration value="update"/>
    </restriction>
  </simpleType>
</attribute>
```

the value of the optional modifier XML attribute specification of the specific XML elements corresponding to the classes of the NRM is one of the following: create, delete, or update.

...

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## Annex A (normative): Configuration data file base XML schema

The following XML schema [bulkCmConfigDataFile.xsd](#) is the base schema for configuration data XML files:

```
<!--
  3GPP TS 32.602-5615 Bulk CM IRP
  Configuration data file base XML schema
  bulkCmConfigDataFile.xsd
-->
```

...

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## Annex B (normative): Configuration data file NRM specific XML schemas

The following XML schemas are the NRM specific schemas for configuration data XML files.

The following XML schema [genericNrm.xsd](#) is the NRM specific schema for the Generic Network Resources IRP NRM defined in 32.622 [8]:

```
<!--
  3GPP TS 32.602-5615 Bulk CM IRP
  Configuration data file Generic Network Resources IRP NRM XML schema
  genericNrm.xsd
-->
```

...

The following XML schema [utranNrm.xsd](#) is the NRM specific schema for the UTRAN Network Resources IRP NRM defined in 32.642 [9]:

```
<!--
  3GPP TS 32.602-5615 Bulk CM IRP
  Configuration data file UTRAN Network Resources IRP NRM XML schema
```

```

    utranNrm.xsd
-->

```

...

The following XML schema `geranNrm.xsd` is the NRM specific schema for the GERAN Network Resources IRP NRM defined in 32.652 [10]:

```

<!--
3GPP TS 32.602-5615 Bulk CM IRP
Configuration data file GERAN Network Resources IRP NRM XML schema
geranNrm.xsd
-->

```

...

```

<element name="GsmCell">
  <complexType>
    <extension base="xn:NrmClassXmlType">
      <sequence>
        <all>
          <element name="userLabel" minOccurs="0"/>
          <element name="cellIdentity" minOccurs="0"/>
          <element name="cellAllocation" minOccurs="0"/>
          <element name="ncc" minOccurs="0"/>
          <element name="bcc" minOccurs="0"/>
          <element name="lac" minOccurs="0"/>
          <element name="mcc" minOccurs="0"/>
          <element name="mnc" minOccurs="0"/>
          <element name="rac" minOccurs="0"/>
          <element name="racc" minOccurs="0"/>
          <element name="tsc" minOccurs="0"/>
          <element name="rxLevAccessMin" minOccurs="0"/>
          <element name="msTxPwrMaxCCH" minOccurs="0"/>
          <element name="hoppingSequenceNumber" minOccurs="0"/>
          <element name="plmnPermitted" minOccurs="0"/>
        </all>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="gn:GsmRelation"/>
          <element ref="un:UtranRelation"/>
          <element ref="xn:VsDataContainer"/>
        </choice>
      </sequence>
    </extension>
  </complexType>
</element>

```

...

```

<element name="ExternalGsmCell">
  <complexType>
    <extension base="xn:NrmClassXmlType">
      <sequence>
        <all>
          <element name="userLabel" minOccurs="0"/>
          <element name="cellIdentity" minOccurs="0"/>
          <element name="bcchFrequency" minOccurs="0"/>
          <element name="ncc" minOccurs="0"/>
          <element name="bcc" minOccurs="0"/>
          <element name="lac" minOccurs="0"/>
          <element name="mcc" minOccurs="0"/>
          <element name="mnc" minOccurs="0"/>
          <element name="rac" minOccurs="0"/>
        </all>
      </sequence>
    </extension>
  </complexType>
</element>

```

```
        <element name="racc" minOccurs="0"/>
      </all>
    </sequence>
  </extension>
</complexType>
</element>

</schema>
```

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## Annex D (normative): Session log file XML schema

The following XML schema `bulkCmSessionLogFile.xsd` is the schema for session log XML files:

```
<!--
3GPP TS 32.602-5615 Bulk CM IRP
Session log file XML schema
bulkCmSessionLogFile.xsd
-->
```

