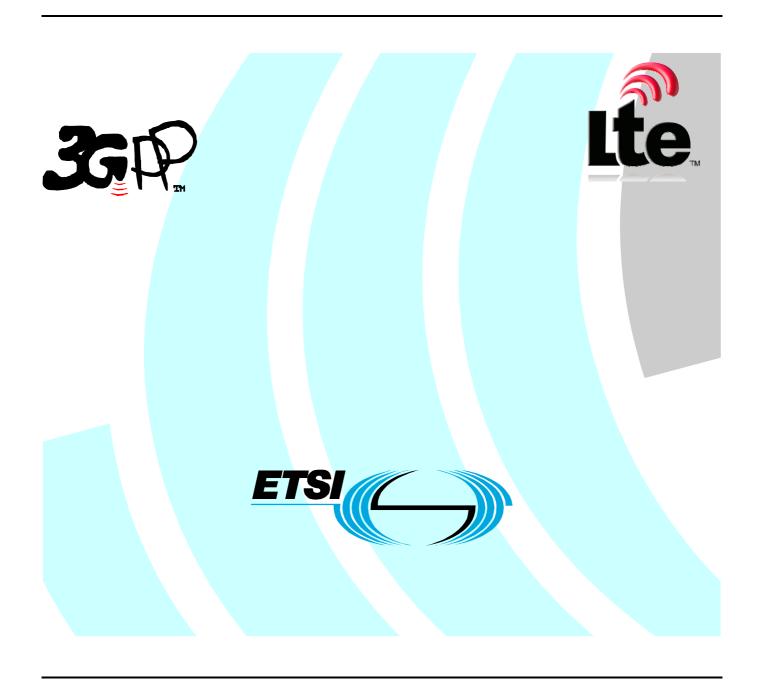
ETSITS 132 505 V9.0.0 (2010-02)

Technical Specification

Universal Mobile Telecommunications System (UMTS);

LTE;

Telecommunication management; Self-Configuration of Network Elements Integration Reference Point (IRP) (3GPP TS 32.505 version 9.0.0 Release 9)



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Foreword

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Version x.y.z

where:

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 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
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- 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:

32.505:	Self-Configuration of Network Elements Integration Reference Point (IRP); eXtensible Markup Language (XML) file format definition.
32.503:	Self-Configuration of Network Elements Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)
32.502:	Self-Configuration of Network Elements Integration Reference Point (IRP); Information Service (IS)
32.501:	Self-Configuration of Network Elements; Concepts and Integration Reference Point (IRP) Requirements

1 Scope

The present document is the "XML file format definition" of Self-Configuration IRP (SCIRP) for the IRP whose semantics are specified in Self-Configuration IRP Information Service (3GPP TS 32.502 [2]).

This file format definition specification is related to TS 32.502 V9.0.X.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions". [2] 3GPP TS 32.502: "Telecommunication management; Self-Configuration of Network Elements Integration Reference Point (IRP); Information Service (IS)". [3] W3C REC-xml-20001006: "Extensible Markup Language (XML) 1.0 (Second Edition)". W3C REC-xmlschema-0-20010502: "XML Schema Part 0: Primer". [4] [5] W3C REC-xmlschema-1-20010502: "XML Schema Part 1: Structures". [6] W3C REC-xmlschema-2-20010502: "XML Schema Part 2: Datatypes". [7] W3C REC-xml-names-19990114: "Namespaces in XML".

3 Definitions and abbreviations

3.1 Definitions

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

IRP: See 3GPP TS 32.150 [1].

IRPAgent: See 3GPP TS 32.150 [1].

IRPManager: See 3GPP TS 32.150 [1].

Self Configuration: The process which brings a network element into service requiring minimal human operator intervention or none at all.

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

XML declaration: it specifies the version of XML being used

NOTE: See [3].

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 [3].

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 [3].

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 [3].

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 [3].

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 [3].

XML attribute specification: has a name and a value

NOTE: See [3].

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

NOTE: See [3].

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 [4], [5] and [6].

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

NOTE: See [7], 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 [4], [5] and [6].

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 [4], [5] and [6].

3.2 Abbreviations

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

SC Self Configuration

XML eXtensible Markup Language

4 Self Configuration IRP XML Definitions

4.1 Self Configuration notifications XML definition structure

Editor"s note: Figure needs to be added.

4.2 Self Configuration IRP XML Schema for notifications (file name 'scIRPNotif.xsd')

```
<?xml version="1.0" encoding="UTF-8"?>
   3GPP TS 32.505 SCIRP Notification XML Schema
  sCIRPNotif.xsd
<schema targetNamespace="http://www.3gpp.org/ftp/specs/archive/32 series/32.505#scnIRPNotif"</pre>
xmlns:xsc="http://www.3gpp.org/ftp/specs/archive/32 series/32.505#scnIRPNotif"
xmlns:swm="http://www.3gpp.org/ftp/specs/archive/32_series/32.535#swManagementIRPNotif"
xmlns:xe="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification"
xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified">
   <import namespace="xe:Notification" schemaLocation="notification.xsd"/>
   <complexType name="NotifyScManagementProfileCreation">
      <complexContent>
         <extension base="xe:Notification">
            <sequence>
               <element name="body">
                  <complexType>
                      <sequence>
                        <element name="id" type="swm:Id"/>
                         <element name="versionNumber" type="swm:VersionNumber"/>
                        <element name="nEInformation" type="swm:NEInformation"/>
                         <element name="swVersionToBeInstalled"</pre>
type="swm:SwVersionToBeInstalledConditional"/>
                         <element name="stepsAndSelectedStopPointList"</pre>
type="swm:StepsAndSelectedStopPointList"/>
                         <element name="selectedFinalAdministrativeState"</pre>
type="swm:FinalAdministrativeStateValue"/>
                     </sequence>
                  </complexType>
               </element>
            </sequence>
         </extension>
      </complexContent>
   </complexType>
   <complexType name="NotifyScManagementProfileDeletion">
      <complexContent>
         <extension base="xe:Notification">
            <sequence>
               <element name="body">
                  <complexType>
                     <sequence>
                         <element name="id" type="swm:Id"/>
                      </sequence>
                  </complexType>
               </element>
            </sequence>
```

```
</extension>
      </complexContent>
   </complexType>
   <complexType name="NotifyScProcessCreation">
      <complexContent>
         <extension base="xe:Notification">
            <sequence>
               <element name="body">
                  <complexType>
                     <sequence>
                        <element name="id" type="swm:Id"/>
                        <element name="nEIdentification" type="swm:Id"/>
                        <element name="profileId" type="swm:ProfileId"/>
                        <element name="matchingNEInformation" type="swm:NEInformation"/>
                        <element name="stepInfoList" type="swm:StepInfoList"/>
                     </sequence>
                  </complexType>
               </element>
            </sequence>
         </extension>
      </complexContent>
   </complexType>
   <complexType name="NotifyScProcessStage">
      <complexContent>
         <extension base="xe:Notification">
            <sequence>
               <element name="body">
                  <complexType>
                     <sequence>
                        <element name="id" type="swm:Id"/>
                         <element name="stepInfoList" type="swm:StepInfoList"/>
                     </sequence>
                  </complexType>
               </element>
            </sequence>
         </extension>
      </complexContent>
   </complexType>
   <complexType name="NotifyScProcessDeletion">
      <complexContent>
         <extension base="xe:Notification">
            <sequence>
               <element name="body">
                  <complexType>
                     <sequence>
                        <element name="id" type="swm:Id"/>
                        <element name="triggerForDeletion" type="swm:TriggerForDeletion"/>
                        <element name="additionalInformation" type="string" minOccurs="0"/>
                     </sequence>
                  </complexType>
               </element>
            </sequence>
         </extension>
      </complexContent>
   </complexType>
   <complexType name="notifyNewScManagementCapabilityAvailability">
      <complexContent>
         <extension base="xe:Notification">
            <sequence>
               <element name="body">
                  <complexType>
                     <sequence>
                        <element name="id" type="swm:Id"/>
                        <element name="nEInformation" type="swm:NEInformation"/>
                        <element name="stepsAndOfferedStopPointList"</pre>
type="swm:StepsAndOfferedStopPointList"/>
                        <element name="offeredFinalAdministrativeStateInformation"</pre>
type="swm:OfferedFinalAdministrativeStateInformation"/>
                        <element name="swVersionToBeInstalledOfferList"</pre>
type="swm:swVersionToBeInstalledOfferList"/>
                     </sequence>
                  </complexType>
               </element>
            </sequence>
         </extension>
      </complexContent>
   </complexType>
   <complexType name="notifyScManagementProfileChange">
```

```
<complexContent>
         <extension base="xe:Notification">
            <seguence>
               <element name="body">
                  <complexType>
                     <sequence>
                        <element name="id" type="swm:Id"/>
                        <element name="versionNumber" type="swm:VersionNumber"/>
                        <element name="nEInformation" type="swm:NEInformation"/>
                        <element name="swVersionToBeInstalled"</pre>
type="swm:SwVersionToBeInstalledConditional"/>
                        <element name="stepsAndSelectedStopPointList"</pre>
type="swm:StepsAndSelectedStopPointList"/>
                        <element name="selectedFinalAdministrativeState"</pre>
type="swm:FinalAdministrativeStateValue"/>
                     </sequence>
                  </complexType>
               </element>
            </sequence>
         </extension>
      </complexContent>
   </complexType>
   <element name="notifyScManagementProfileCreation" type="swm:NotifyScManagementProfileCreation"/>
   <element name="notifyScManagementProfileDeletion" type="swm:NotifyScManagementProfileDeletion"/>
   <element name="notifyScManagementProcessCreation" type="swm:NotifyScManagementProcessCreation"/>
   <element name="notifyScProcessStage" type="swm:NotifyScProcessStage"/>
   <element name="notifyScManagementProcessDeletion" type="swm:NotifyScManagementProcessDeletion"/>
   <element name="notifyNewScManagementCapabilityAvailability"</pre>
type="swm:notifyNewScManagementCapabilityAvailability"/>
   <element name="notifyScManagementProfileChange" type="swm:NotifyScManagementProfileChange"/>
</schema>
```

4.3 Self Configuration XML Schema for IOCs (file name 'scIRPIOCs.xsd')

```
<?xml version="1.0" encoding="UTF-8"?>
  3GPP TS 32.505 Self Configuration IRP IOC XML Schema
  scIRPIOCs.xsd
<schema targetNamespace="http://www.3gpp.org/ftp/specs/archive/32 series/32.505#scIRPIOCs"</pre>
xmlns:xswi="http://www.3gpp.org/ftp/specs/archive/32 series/32.535#swManagementIRPIOCs"
xmlns:swm="http://www.3gpp.org/ftp/specs/archive/32 series/32.535#swManagementIRPNotif"
xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified">
   <!-- Attributes of the scManagementCapability IOC -->
   <element name="id" type="swm:Id"/>
   <element name="neInformation" type="swm:NEInformation"/>
   <element name="stepsAndOfferedStopPointList" type="xswi:StepsAndOfferedStopPointList"/>
   <element name="offeredFinalAdministrativeStateInformation"</pre>
type="xswi:OfferedFinalAdministrativeStateInformation"/>
   <!-- Attributes of the scManagementProfile IOC -->
   <element name="id" type="swm:Id"/>
   <element name="versionNumber" type="swm:VersionNumber"/>
   <element name="neInformation" type="swm:NEInformation"/>
   <element name="stepsAndSelectedStopPointList" type="swm:StepsAndSelectedStopPointList"/>
   <element name="selectedFinalAdministrativeState" type="swm:SelectedFinalAdministrativeState"/>
   <!-- Attributes of the scProcess IOC -->
   <element name="id" type="swm:Id"/>
   <element name="nEIdentification" type="swm:Id"/>
   <element name="profileId" type="swm:ProfileId"/>
   <element name="stepInfoList" type="swm:stepInfoList"/>
</schema>
```

Annex A (informative): Void

Annex B (informative): Change history

Change history									
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New		
Dec 2009	SA#46	SP- 0907355			Presentation to SA for Information and approval		1.0.0		
Dec 2009					Publication	1.0.0	8.0.0		
Dec 2009	-	-	-	-	Update to Rel-9 version	8.0.0	9.0.0		

History

Document history						
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