3GPP TS 32.305 V9.0.0 (2009-12)

Technical Specification

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

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3GPP

Postal address

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

Internet
http://www.3gpp.org

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Foreword

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

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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:

   32.301:   Configuration Management (CM); Notification Integration Reference Point (IRP): Requirements

   32.302:   Configuration Management (CM); Notification Integration Reference Point (IRP): Information Service (IS)

   32.303:   Configuration Management (CM); Notification Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)

   32.305:   Configuration Management (CM); Notification Integration Reference Point (IRP): eXtensible Markup Language (XML) definition

   32.307:   Configuration Management (CM); Notification Integration Reference Point (IRP): Simple Object Access Protocol (SOAP) Solution Set (SS)

The present document is part of a TS-family, which describes the requirements and information model necessary for Telecommunications Management (TM). The TM principles and TM architecture are specified in 3GPP TS 32.101 [1] and 3GPP TS 32.102 [2].

A standard general-purpose mechanism for the management of logs containing selected notifications from the network is required to provide an ability to perform historical analysis on faults and conditions, which occurred in the network. The TS 32.33x-series, constituting the Notification Log IRP, sets forth such a mechanism - and the present document contains the XML definition related to Notification IRP notification header.

1 Scope

The present document specifies the XML Definitions for the Notification Integration Reference Point (Notification IRP) as it applies to Itf-N, in accordance with Notification IRP IS definitions [3].

This XML Definitions specification defines the Notification IRP XML Notification header format.

This specification is related to 3GPP TS 32.302 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 32.101: "Telecommunication management; Principles and high level requirements".

[2] 3GPP TS 32.102: "Telecommunication management; Architecture".

[3] 3GPP TS 32.302: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Information Service (IS)".

[4] 3GPP TS 32.335: "Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): eXtensible Markup Language (XML) solution definitions".

[5] 3GPP TS 32.331: "Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): Requirements".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], and 3GPP TS 32.331 [5] apply.

3.2 Abbreviations

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

IRP   Integration Reference Point
IS   Information Service
NL   Notification Log
UML   Unified Modelling Language
IRP   Integration Reference Point
NRM   Network Resource Model
XML   eXtensible Markup Language

4 Notification IRP XML Definitions

4.1 Notification IRP XML notification header Definitions

This clause provides XML definitions of Notification IRP notification header as defined in 3GPP TS 32.302 [3]. These definitions are to be used in conjunction with Notification Log IRP XML Definitions for Notification Log IRP XML Data File and the NL IRP XML Notification Format (3GPP TS 32.335 [4]).

The structure of the Notification IRP XML Notification header Format is shown in figure 4.1.
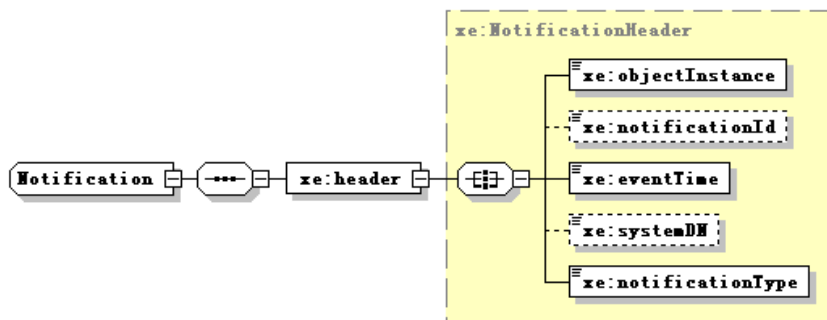

Figure 4.1: Structure of the Notification IRP XML Notification header Format

The Notification IRP XML Notification header Format uses the definition of notifications in Annex A.

Annex A (normative): Notification IRP Notification header XML Schema (File name "notification.xsd")

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!--
    3GPP TS 32.305 Notification IRP
    3GPP Notification IRP XML Solution Definitions, Schema Definition
    notification.xsd
-->
<schema targetNamespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification"
xmlns="http://www.w3.org/2001/XMLSchema"
xmlns:xe="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification"
xmlns:xn="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
elementFormDefault="qualified" attributeFormDefault="unqualified">
<import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"/>
    <simpleType name="NotificationId">
        <restriction base="long"/>
    </simpleType>
    <complexType name="NotificationHeader">
        <all>
            <element name="objectInstance" type="xn:dn"/>
            <element name="notificationId" type="xe:NotificationId" minOccurs="0"/>
            <element name="eventTime" type="dateTime"/>
            <element name="systemDN" type="xn:dn" minOccurs="0"/>
            <element name="notificationType" type="string"/>
        </all>
    </complexType>
    <complexType name="Notification" abstract="true">
        <sequence>
            <element name="header" type="xe:NotificationHeader"/>
        </sequence>
    </complexType>
    <element name="Notification" type="xe:Notification"/>
</schema>
```

Annex B (informative):
Void

Annex C (informative): Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
Jun 2005	SA_28	SP-050287	--	--	Submitted to TSG SA#28 for Approval	--	1.0.0	6.0.0
Mar 2006	SA_31	SP-060090	0001	--	Correct the definition of Notification in XSD	F	6.0.0	6.1.0
Jun 2006	SA_32	SP-060431	0002	1	Change Annex A from Informative to Normative - Align with all XML TSs (32.3x5/6y5)	F	6.1.0	6.2.0
Dec 2006	SA_34	SP-060707	0003	--	Correct XML schema	F	6.2.0	6.3.0
Jun 2007	SA_36	--	--	--	Automatic upgrade to Rel-7 (no CR) at freeze of Rel-7. Added to "Scope" the IS-SS relationship text. Deleted reference to CMIP SS, discontinued from R7 onwards.	--	6.3.0	7.0.0
Dec 2008	SA_42	--	--	--	Upgrade to Release 8	--	7.0.0	8.0.0
Dec 2009	SA_46	SP-090719	0004	--	Discontinue from Rel-9 onwards the XML schema extraction and storage	C	8.0.0	9.0.0