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Presentation of Technical Specification to TSG SA

Presentation to: TSG SA Meeting #28
Document for presentation: TS 32.305 V1.0.0
Notification Integration Reference Point (IRP): XML Definitions
Presented for: Approval

Abstract of document:

This TS defines the XML Definitions for the Notification Header.

Work done against the WID contained in SP-020754 (Work Item ID: OAM-NIM).

The present document is a member of a TS-family consisting of:

- 32.301: "Notification IRP: Requirements"
- 32.302: "Notification IRP: Information Service (IS)"
- 32.303: "Notification IRP: CORBA Solution Set (SS)"
- 32.304: "Notification IRP: CMIP Solution Set (SS)"
- 32.305: "Notification IRP: XML Definitions"**

Purpose of These Specifications:

The purpose of 32.305 is to provide a Notification header XML definition that Notification Log IRP use.

Changes since last presentation to TSG-SA:

Completed

Outstanding Issues:

None

Contentious Issues:

None

3GPP TS 32.305 V1.0.0 (2005-06)

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 6)**



The present document has been developed within the 3rd Generation Partnership Project (3GPPTM) and may be further elaborated for the purposes of 3GPP.

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Keywords

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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:

- 32.301: "Notification Integration Reference Point (IRP): Requirements";
- 32.302: "Notification Integration Reference Point (IRP): Information Service (IS)";
- 32.303: "Notification Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)";
- 32.304: "Notification Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)";
- 32.305: "Notification Integration Reference Point (IRP): eXtensible Markup Language (XML) definition".**

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.

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; Notification Integration Reference Point (IRP): Information Service (IS)".
- [4] 3GPP TS 32.335: "Telecommunication management; Notification Log Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions".
- [5] 3GPP TS 32.331: "Notification log 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 [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 [4]

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

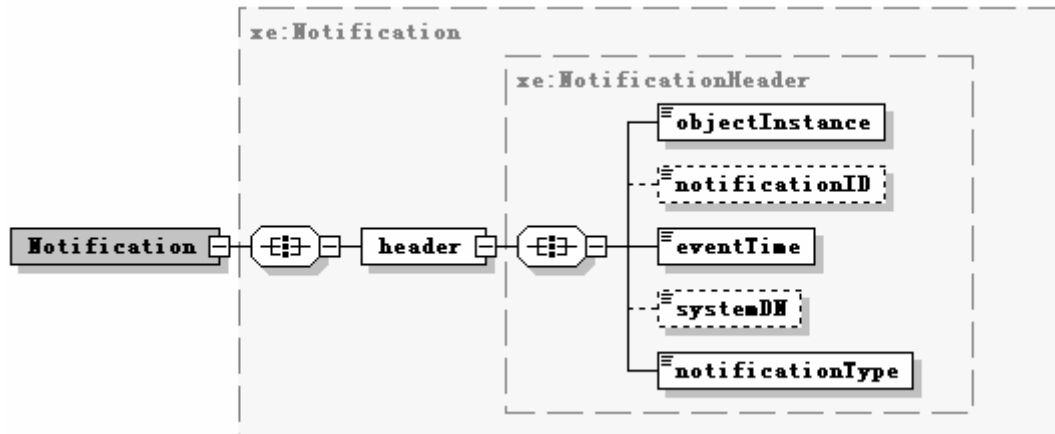


Figure 4.1: Structure of the Notification IRP XML Notification header Format

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

Annex A (Informative): Notification IRP Notification header XML Schema (File name “notification.xsd”)

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
  The 3GPP Notification IRP XML Solution Definitions, Schema Definition
-->
<schema targetNamespace="http://www.3gpp.org/ftp/specs/latest/rel-
6/32_series/32305#notification" xmlns="http://www.w3.org/2001/XMLSchema"
xmlns:xe="http://www.3gpp.org/ftp/specs/latest/rel-6/32_series/32305#notification"
elementFormDefault="qualified" attributeFormDefault="unqualified">
  <simpleType name="DN">
    <restriction base="string"/>
  </simpleType>
  <simpleType name="NotificationID">
    <restriction base="long">
    </restriction>
  </simpleType>
  <complexType name="NotificationHeader">
    <all>
      <element name="objectInstance" type="xe:DN"/>
      <element name="notificationID" type="xe:NotificationID" minOccurs="0"/>
      <element name="eventTime" type="dateTime"/>
      <element name="systemDN" type="xe:DN" minOccurs="0"/>
      <element name="notificationType" type="string"/>
    </all>
  </complexType>
  <complexType name="Notification">
    <all>
      <element name="header" type="xe:NotificationHeader"/>
    </all>
  </complexType>
  <element name="Notification" type="xe:Notification" 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/32.305/schema/32305-600-XMLSchema.zip

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2005	S_28	SP-050287	--	--	Submitted to TSG SA#28 for Approval	1.0.0	