ETSI TS 132 325 V9.0.0 (2010-01)

Technical Specification

Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions (3GPP TS 32.325 version 9.0.0 Release 9)

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Foreword

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The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Contents

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:

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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; Test management Integration Reference Point (IRP), as identified below:

32.321: "Test Management Integration Reference Point (IRP); Requirements";

32.322: "Test Management Integration Reference Point (IRP); Information Service (IS)";

32.323: "Test Management Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)";

32.325: "Test Management Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions".

A 3G telecommunication network is composed of a multitude of different Network Elements (NE). For a successful operation of the network the operator must be provided with mechanisms allowing him to manage the network. These management activities can be grouped into several areas: configuration management, fault management, performance management, accounting management and security management.

A management function assisting in different high level management areas such as fault management and performance management is test management. The purpose of testing is to get information about the functionality and performance of the 3G managed network subject to the test.

The present document is part of a TS-family defining the Telecommunication Management (TM) of 3G systems. The TM principles are described in 3GPP TS 32.101 [1]. The TM architecture is described in 3GPP TS 32.102 [2]. The other specifications define the interface (Itf-N) between the managing system (manager), which is in general the Network Manager (NM) and the managed system (agent), which is either an Element Manager (EM) or the managed NE itself. The Itf-N is composed of a number of integration reference points (IRPs) defining the information in the agent that is visible for the manager, the operations that the manager may perform on this information and the notifications that are sent from the agent to the manager. One of these IRPs is the Test Management IRP.

1 Scope

The present document specifies the XML Definitions for the Test Management IRP (TMIRP) as it applies to Itf-N, in accordance with TM IRP IS definitions [3] as well as Notification Log IRP XML Definitions [4].

This specification is related to 3GPP TS 32.322 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 32.322: "Test Management 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:

EM	Element Manager
TM	Test Management
TMIRP	Test Management IRP
IRP	Integration Reference Point
IS	Information Service
NL	Notification Log
XML	eXtensible Markup Language

4 TM IRP XML Definitions

4.1 TM IRP XML Definitions

This section provides XML definitions of TM IRP notifications as defined in 3GPP TS 32.322 [3].
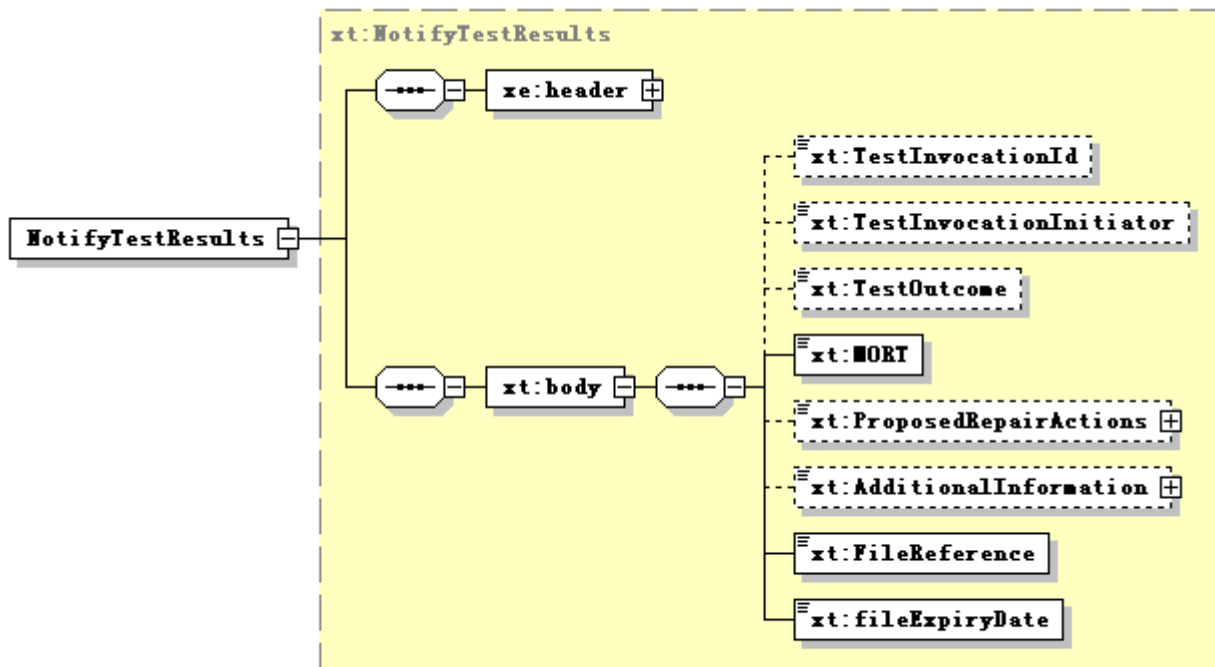

Figure 1

NOTE: The use of XML schema key word "sequence" to support IS-defined set (not sequence) is for the purpose of XML processor efficiency. This shall not imply the use of "sequence" in other technology.

4.2   TM IRP XML Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!--
    3GPP TS 32.325 TMIRP Notification XML Schema
    tMIRPNotif.xsd
-->
<schema xmlns:xt="http://www.3gpp.org/ftp/specs/archive/32_series/32.325#tMIRPNotif"
xmlns:xe="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification"
xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.325#tMIRPNotif"
elementFormDefault="qualified" attributeFormDefault="unqualified">
    <import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification" />
    <simpleType name="TestInvocationId">
        <restriction base="string"/>
    </simpleType>
    <simpleType name="TestOutcome">
        <restriction base="string">
            <enumeration value="pass"/>
            <enumeration value="fail"/>
            <enumeration value="inconclusive"/>
            <enumeration value="timed-out"/>
            <enumeration value="premature-termination"/>
        </restriction>
    </simpleType>
    <complexType name="NotifyTestResults">
        <complexContent>
            <extension base="xe:Notification">
                <sequence>
                    <element name="body">
                        <complexType>
                            <sequence>
                                <element name="FileReference" type="string"/>
                                <element name="fileExpiryDate" type="dateTime"/>
                                <element name="TestInvocationId" type="xt:TestInvocationId"
minOccurs="0"/>
                                <element name="TestInvocationInitiator" type="string"
minOccurs="0"/>
                                <element name="TestOutcome" type="xt:TestOutcome" minOccurs="0"/>
                                <element name="MORT" type="string"/>
                                <element name="ProposedRepairActions" type="anyType" minOccurs="0"/>
                                <element name="AdditionalInformation" type="anyType" minOccurs="0"/>
                            </sequence>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <element name="NotifyTestResults" type="xt:NotifyTestResults"/>
</schema>
```

Annex A (informative):
Void

Annex B (informative): Change history

<table>
<tr><th colspan="9">Change history</th></tr>
<tr><th>Date</th><th>TSG #</th><th>TSG Doc.</th><th>CR</th><th>Rev</th><th>Subject/Comment</th><th>Cat</th><th>Old</th><th>New</th></tr>
<tr><td>Mar 2007</td><td>SA_35</td><td>SP-070070</td><td>--</td><td>--</td><td>Submitted to TSG SA#35 for Approval</td><td>--</td><td>1.0.0</td><td>7.0.0</td></tr>
<tr><td>Dec 2008</td><td>SA_42</td><td>--</td><td>--</td><td>--</td><td>Upgrade to Release 8</td><td>--</td><td>7.0.0</td><td>8.0.0</td></tr>
<tr><td>Dec 2009</td><td>SA_46</td><td>SP-090719</td><td>0001</td><td>--</td><td>Discontinue from Rel-9 onwards the XML schema extraction and storage</td><td>F</td><td>8.0.0</td><td>9.0.0</td></tr>
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History

Document history		
V9.0.0	January 2010	Publication