# ETSITS 132 111-5 V6.0.0 (2005-03)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Fault Management;
Part 5: Alarm Integration Reference Point (IRP):
eXtensible Markup Language (XML) definitions
(3GPP TS 32.111-5 version 6.0.0 Release 6)



Reference
DTS/TSGS-0532111-5v600

Keywords
GSM, UMTS

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#### **Foreword**

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

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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 3<sup>rd</sup> Generation Partnership Project: Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

32.111-5	"Fault Management; Part 5: Alarm Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions".
32.111-4	"Fault Management; Part 4: Alarm Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)".
32.111-3	"Fault Management; Part 3: Alarm Integration Reference Point (IRP): Common Object Request "Broker Architecture (CORBA) Solution Set (SS)".
32.111-2	"Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)".
32.111-1	"Fault Management; Part 1: 3G fault management requirements".

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 communications system is composed of a multitude of Network Elements (NE) of various types and, typically, different vendors, which inter-operate in a coordinated manner in order to satisfy the network users' communication requirements.

The occurrence of faults in an NE may cause deterioration or loss of this NE's function. Fault Management is the functional area, which allows the operator to detect the occurrence of faults in the network in real-time. Configuration Management and Performance Management are two more functional areas, which require the operator to be alerted to certain conditions in the network.

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 Alarm IRP notifications.

#### 1 Scope

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

The present document defines the XML syntax of Alarm IRP notifications that is 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].

#### 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 32.111-2: "Telecommunication management; Fault Management; Alarm 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:

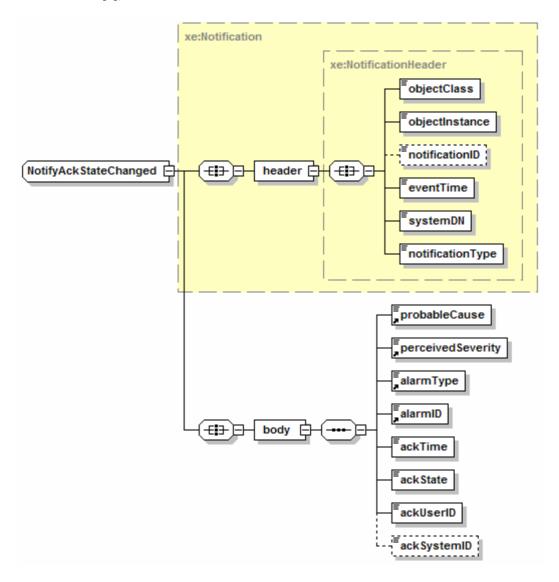
IRP Integration Reference Point
IS Information Service
NL Notification Log
UML Unified Modelling Language

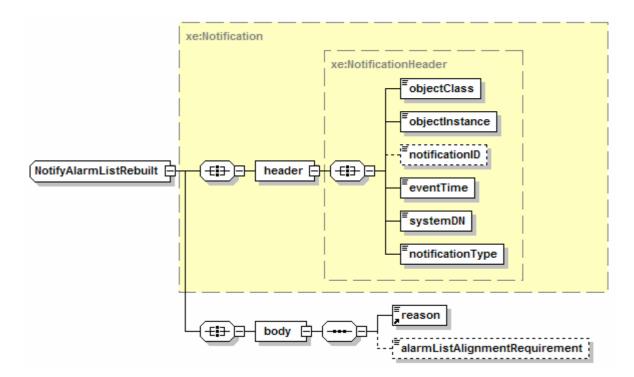
IRP Integration Reference Point
NRM Network Resource Model
XML eXtensible Markup Language

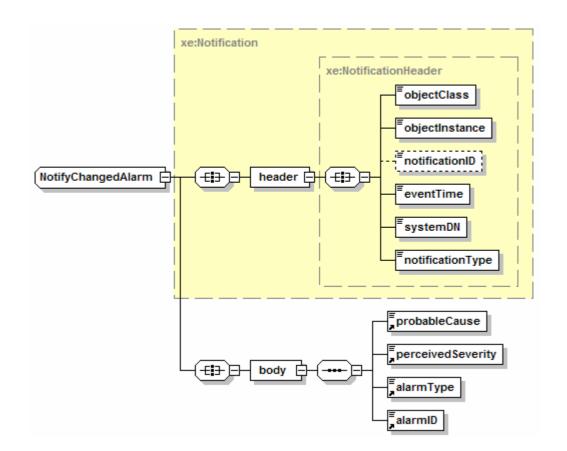
#### 4 Alarm IRP XML Definitions

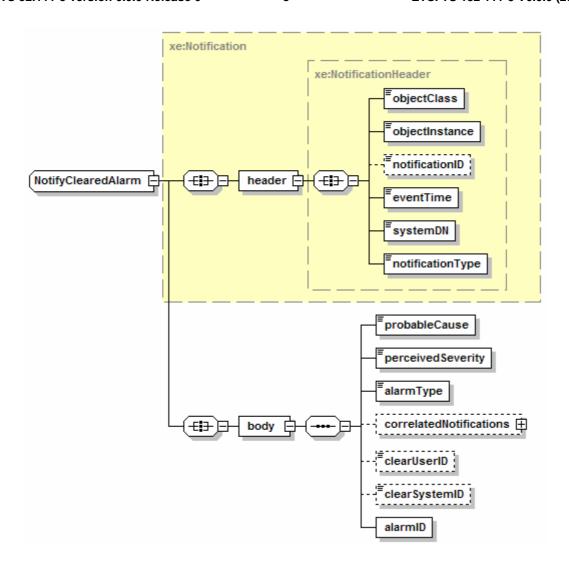
#### 4.1 Alarm IRP XML Definitions

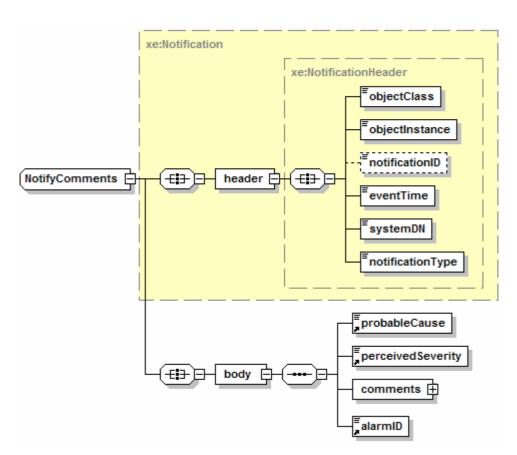
This clause provides XML definitions of Alarm IRP notifications as defined in [3]. These definitions are to be used in conjunction with Notification Log IRP XML Definitions for Notification Log IRP XML Data File and the NL IRP XML Notification Format [4], as well as considerations for NL IRP XML File Name Conventions defined therein.

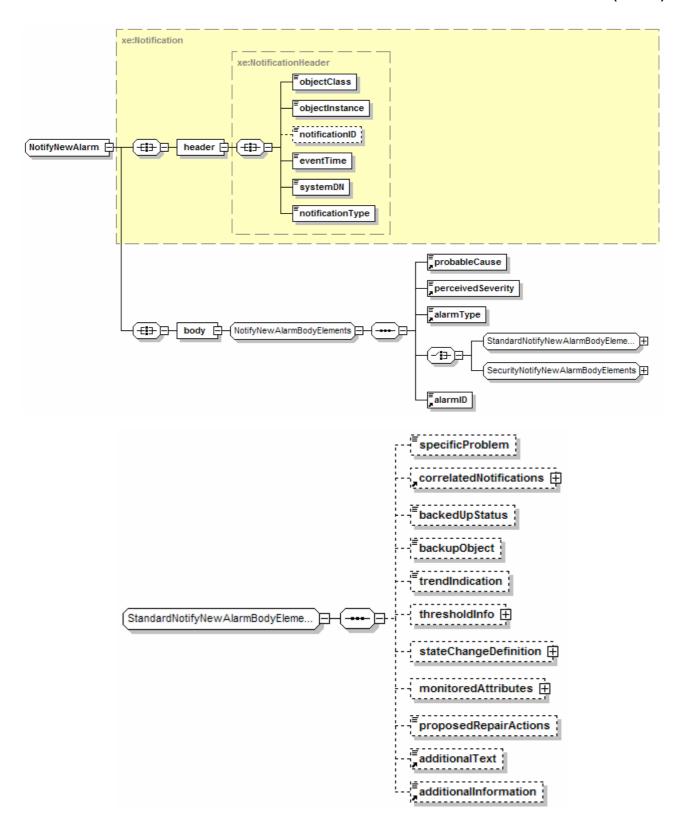


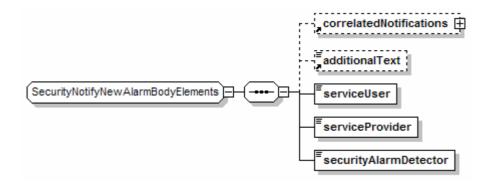


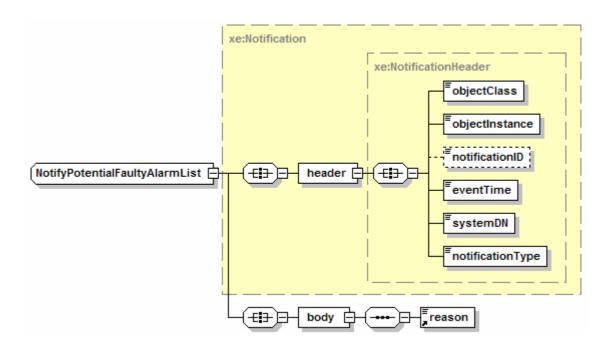












#### 4.2 Alarm IRP XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
targetNamespace="http://www.3gpp.org/ftp/specs/latest/rel-6/32_series/32111-5-
600.zip#alarmIRPNotif"
elementFormDefault="qualified" attributeFormDefault="unqualified"
xmlns="http://www.3gpp.org/ftp/specs/latest/rel-6/32_series/32111-5-600.zip#alarmIRPNotif"
mlns:xe="http://www.3gpp.org/ftp/specs/latest/rel-6/32_series/32335-600.zip#notification"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
 <xs:import</pre>
  namespace="http://www.3gpp.org/ftp/specs/latest/rel-6/32_series/32335-600.zip#notification"/>
 <xs:simpleType name="AckState">
   <xs:restriction base="xs:string">
      <xs:enumeration value="ACKNOWLEDGED"/>
      <xs:enumeration value="UNACKNOWLEDGED"/>
   </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="AlarmListAlignmentRequirement">
   <xs:restriction base="xs:string">
      <xs:enumeration value="Alignment required"/>
      <xs:enumeration value="Alignment not required"/>
   </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="AlarmListRebuiltReason">
   <xs:restriction base="xs:string">
      <xs:enumeration value="Agent-NE communications error"/>
```

```
<xs:enumeration value="Agent restarts"/>
    <xs:enumeration value="Indeterminate"/>
 </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EventType">
 <xs:restriction base="xs:string">
    <xs:enumeration value="Communications Alarm"/>
    <xs:enumeration value="Processing Error Alarm"/>
    <xs:enumeration value="Environmental Alarm"/>
    <xs:enumeration value="Quality of Service Alarm"/>
    <xs:enumeration value="Equipment Alarm"/>
    <xs:enumeration value="Integrity Violation"/>
    <xs:enumeration value="Operational Violation"/>
    <xs:enumeration value="Physical Violation"/>
    <xs:enumeration value="Security Service or Mechanism Violation"/>
    <xs:enumeration value="Time Domain Violation"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="PerceivedSeverity">
 <xs:restriction base="xs:string">
   <xs:enumeration value="Critical"/>
    <xs:enumeration value="Major"/>
    <xs:enumeration value="Minor"/>
    <xs:enumeration value="Warning"/>
    <xs:enumeration value="Indeterminate"/>
    <xs:enumeration value="Cleared"/>
    <xs:enumeration value=""/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ProbableCause">
  <xs:restriction base="xs:string">
    <xs:enumeration value="INDETERMINATE"/>
    <xs:enumeration value="ALARM INDICATION SIGNAL"/>
    <xs:enumeration value="CALL SETUP FAILURE"/>
    <xs:enumeration value="DEGRADED SIGNAL M3100"/>
    <xs:enumeration value="FAR END RECEIVER FAILURE"/>
    <xs:enumeration value="FRAMING ERROR M3100"/>
    <xs:enumeration value="LOSS OF FRAME"/>
    <xs:enumeration value="LOSS OF POINTER"/>
    <xs:enumeration value="LOSS OF SIGNAL"/>
    <xs:enumeration value="PAYLOAD TYPE MISMATCH"/>
    <xs:enumeration value="TRANSMISSION ERROR"/>
    <xs:enumeration value="REMOTE ALARM INTERFACE"/>
    <xs:enumeration value="EXCESSIVE BIT ERROR RATE"/>
    <xs:enumeration value="PATH TRACE MISMATCH"/>
    <xs:enumeration value="UNAVAILABLE"/>
    <xs:enumeration value="SIGNAL LABEL MISMATCH"/>
    <xs:enumeration value="LOSS OF MULTI FRAME"/>
    <xs:enumeration value="COMMUNICATIONS RECEIVE FAILURE"/>
    <xs:enumeration value="COMMUNICATIONS TRANSMIT FAILURE"/>
    <xs:enumeration value="MODULATION FAILURE"/>
    <xs:enumeration value="DEMODULATION FAILURE"/>
    <xs:enumeration value="BACK PLANE FAILURE"/>
    <xs:enumeration value="DATA SET PROBLEM"/>
    <xs:enumeration value="EQUIPMENT IDENTIFIER DUPLICATION"/>
    <xs:enumeration value="EXTERNAL DEVICE PROBLEM"/>
    <xs:enumeration value="LINE CARD PROBLEM"/>
    <xs:enumeration value="MULTIPLEXER PROBLEM M3100"/>
    <xs:enumeration value="NE IDENTIFIER DUPLICATION"/>
    <xs:enumeration value="POWER PROBLEM M3100"/>
    <xs:enumeration value="PROCESSOR PROBLEM M3100"/>
    <xs:enumeration value="PROTECTION PATH FAILURE"/>
    <xs:enumeration value="RECEIVER FAILURE M3100"/>
    <xs:enumeration value="REPLACEABLE UNIT MISSING"/>
    <xs:enumeration value="REPLACEABLE UNIT TYPE MISMATCH"/>
    <xs:enumeration value="SYNCHRONISATION SOURCE MISMATCH"/>
    <xs:enumeration value="TERMINAL PROBLEM"/>
    <xs:enumeration value="TIMING PROBLEM M3100"/>
    <xs:enumeration value="TRANSMITTER FAILURE M3100"/>
    <xs:enumeration value="TRUNK CARD PROBLEM"/>
    <xs:enumeration value="REPLACEABLE UNIT PROBLEM"/>
    <xs:enumeration value="REAL TIME CLOCK FAILURE"/>
    <xs:enumeration value="PROTECTION MECHANISM FAILURE"/>
    <xs:enumeration value="PROTECTING RESOURCE FAILURE"/>
    <xs:enumeration value="AIR COMPRESSOR FAILURE"/>
    <xs:enumeration value="AIR CONDITIONING FAILURE"/>
    <xs:enumeration value="AIR DRYER FAILURE"/>
    <xs:enumeration value="BATTERY DISCHARGING"/>
```

```
<xs:enumeration value="BATTERY FAILURE"/>
<xs:enumeration value="COMMERICAL POWER FAILURE"/>
<xs:enumeration value="COOLING FAN FAILURE"/>
<xs:enumeration value="ENGINE FAILURE"/>
<xs:enumeration value="FIRE DETECTOR FAILURE"/>
<xs:enumeration value="FUSE FAILURE"/>
<xs:enumeration value="GENERATOR FAILURE"/>
<xs:enumeration value="LOW BATTERY THRESHOLD"/>
<xs:enumeration value="PUMP FAILURE M3100"/>
<xs:enumeration value="RECTIFIER FAILURE"/>
<xs:enumeration value="RECTIFIER HIGH VOLTAGE"/>
<xs:enumeration value="RECTIFIER LOW F VOLTAGE"/>
<xs:enumeration value="VENTILATION SYSTEM FAILURE"/>
<xs:enumeration value="ENCLOSURE DOOR OPEN M3100"/>
<xs:enumeration value="EXPLOSIVE GAS"/>
<xs:enumeration value="FIRE"/>
<xs:enumeration value="FLOOD"/>
<xs:enumeration value="HIGH HUMIDITY"/>
<xs:enumeration value="HIGH TEMPERATURE"/>
<xs:enumeration value="HIGH WIND"/>
<xs:enumeration value="ICE BUILD UP"/>
<xs:enumeration value="INTRUSION DETECTION"/>
<xs:enumeration value="LOW FUEL"/>
<xs:enumeration value="LOW HUMIDITY"/>
<xs:enumeration value="LOW CABLE PRESSURE"/>
<xs:enumeration value="LOW TEMPERATURE"/>
<xs:enumeration value="LOW WATER"/>
<xs:enumeration value="SMOKE"/>
<xs:enumeration value="TOXIC GAS"/>
<xs:enumeration value="EXTERNAL POINT FAILURE"/>
<xs:enumeration value="STORAGE CAPACITY PROBLEM M3100"/>
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<xs:enumeration value="CORRUPT DATA M3100"/>
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<xs:enumeration value="SOFTWARE ENVIRONMENT PROBLEM"/>
<xs:enumeration value="SOFTWARE DOWNLOAD FAILURE"/>
<xs:enumeration value="LOSS OF REAL TIME"/>
<xs:enumeration value="REINITIALIZED"/>
<xs:enumeration value="EXCESSIVE ERROR RATE"/>
<xs:enumeration value="ADAPTER ERROR"/>
<xs:enumeration value="APPLICATION SUBSYSTEM FAILURE"/>
<xs:enumeration value="BANDWIDTH REDUCTION"/>
<xs:enumeration value="COMMUNICATION PROTOCOL ERROR"/>
<xs:enumeration value="COMMUNICATION SUBSYSTEM FAILURE"/>
<xs:enumeration value="CONFIGURATION OR CUSTOMIZING ERROR"/>
<xs:enumeration value="CONGESTION"/>
<xs:enumeration value="CPU CYCLES LIMIT EXCEEDED"/>
<xs:enumeration value="DATA SET OR MODEM ERROR"/>
<xs:enumeration value="DTE DCE INTERFACE ERROR"/>
<xs:enumeration value="EQUIPMENT MALFUNCTION"/>
<xs:enumeration value="EXCESSIVE VIBRATION"/>
<xs:enumeration value="FILE ERROR"/>
<xs:enumeration value="HEATING OR VENTILATION OR COOLING SYSTEM PROBLEM"/>
<xs:enumeration value="HUMIDITY UNACCEPTABLE"/>
<xs:enumeration value="INPUT OUTPUT DEVICE ERROR"/>
<xs:enumeration value="INPUT DEVICE ERROR"/>
<xs:enumeration value="LAN ERROR"/>
<xs:enumeration value="LEAK DETECTION"/>
<xs:enumeration value="LOCAL NODE TRANSMISSION ERROR"/>
<xs:enumeration value="MATERIAL SUPPLY EXHAUSTED"/>
<xs:enumeration value="OUT OF MEMORY"/>
<xs:enumeration value="OUTPUT DEVICE ERROR"/>
<xs:enumeration value="PERFORMANCE DEGRADED"/>
<xs:enumeration value="PRESSURE UNACCEPTABLE"/>
<xs:enumeration value="QUEUE SIZE EXCEEDED"/>
<xs:enumeration value="RECEIVE FAILURE"/>
<xs:enumeration value="REMOTE NODE TRANSMISSION ERROR"/>
<xs:enumeration value="RESOURCE AT OR NEARING CAPACITY"/>
<xs:enumeration value="RESPONSE TIME EXCESSIVE"/>
<xs:enumeration value="RETRANSMISSION RATE EXCESSIVE"/>
<xs:enumeration value="SOFTWARE ERROR"/>
<xs:enumeration value="SOFTWARE PROGRAM ABNORMALLY TERMINATED"/>
<xs:enumeration value="SOFTWARE PROGRAM ERROR"/>
<xs:enumeration value="TEMPERATURE UNACCEPTABLE"/>
<xs:enumeration value="THRESHOLD CROSSED"/>
<xs:enumeration value="TOXIC LEAK DETECTED"/>
<xs:enumeration value="TRANSMIT FAILURE"/>
<xs:enumeration value="UNDERLYING RESOURCE UNAVAILABLE"/>
```

```
<xs:enumeration value="VERSION MISMATCH"/>
<xs:enumeration value="A BIS TO BTS INTERFACE FAILURE"/>
<xs:enumeration value="A BIS TO TRX INTERFACE FAILURE"/>
<xs:enumeration value="ANTENNA PROBLEM"/>
<xs:enumeration value="BATTERY BREAKDOWN"/>
<xs:enumeration value="BATTERY CHARGING FAULT"/>
<xs:enumeration value="CLOCK SYNCHRONISATION PROBLEM"/>
<xs:enumeration value="COMBINER PROBLEM"/>
<xs:enumeration value="DISK PROBLEM"/>
<xs:enumeration value="EXCESSIVE RECEIVER TEMPERATURE"/>
<xs:enumeration value="EXCESSIVE TRANSMITTER OUTPUT POWER"/>
<xs:enumeration value="EXCESSIVE TRANSMITTER TEMPERATURE"/>
<xs:enumeration value="FREQUENCY HOPPING DEGRADED"/>
<xs:enumeration value="FREQUENCY HOPPING FAILURE"/>
<xs:enumeration value="FREQUENCY REDEFINITION FAILED"/>
<xs:enumeration value="LINE INTERFACE FAILURE"/>
<xs:enumeration value="LINK FAILURE"/>
<xs:enumeration value="LOSS OF SYNCHRONISATION"/>
<xs:enumeration value="LOST REDUNDANCY"/>
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<xs:enumeration value="MAINS BREAKDOWN WITHOUT BATTERY BACKUP"/>
<xs:enumeration value="POWER SUPPLY FAILURE"/>
<xs:enumeration value="RECEIVER ANTENNA FAULT"/>
<xs:enumeration value="RECEIVER MULTICOUPLER FAILURE"/>
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<xs:enumeration value="SIGNAL QUALITY EVALUATION FAULT"/>
<xs:enumeration value="TIMESLOT HARDWARE FAILURE"/>
<xs:enumeration value="TRANSCEIVER PROBLEM"/>
<xs:enumeration value="TRANSCODER PROBLEM"/>
<xs:enumeration value="TRANSCODER OR RATE ADAPTER PROBLEM"/>
<xs:enumeration value="TRANSMITTER ANTENNA FAILURE"/>
<xs:enumeration value="TRANSMITTER ANTENNA NOT ADJUSTED"/>
<xs:enumeration value="TRANSMITTER LOW VOLTAGE OR CURRENT"/>
<xs:enumeration value="TRANSMITTER OFF FREQUENCY"/>
<xs:enumeration value="DATABASE INCONSISTENCY"/>
<xs:enumeration value="FILE SYSTEM CALL UNSUCCESSFUL"/>
<xs:enumeration value="INPUT PARAMETER OUT OF RANGE"/>
<xs:enumeration value="INVALID PARAMETER"/>
<xs:enumeration value="INVALID POINTER"/>
<xs:enumeration value="MESSAGE NOT EXPECTED"/>
<xs:enumeration value="MESSAGE NOT INITIALISED"/>
<xs:enumeration value="MESSAGE OUT OF SEQUENCE"/>
<xs:enumeration value="SYSTEM CALL UNSUCCESSFUL"/>
<xs:enumeration value="TIMEOUT EXPIRED"/>
<xs:enumeration value="VARIABLE OUT OF RANGE"/>
<xs:enumeration value="WATCH DOG TIMER EXPIRED"/>
<xs:enumeration value="COOLING SYSTEM FAILURE"/>
<xs:enumeration value="EXTERNAL EQUIPMENT FAILURE"/>
<xs:enumeration value="EXTERNAL POWER SUPPLY FAILURE"/>
<xs:enumeration value="EXTERNAL TRANSMISSION DEVICE FAILURE"/>
<xs:enumeration value="REDUCED ALARM REPORTING"/>
<xs:enumeration value="REDUCED EVENT REPORTING"/>
<xs:enumeration value="RECUCED LOGGING CAPABILITY"/>
<xs:enumeration value="SYSTEM RESOURCES OVERLOAD"/>
<xs:enumeration value="BROADCAST CHANNEL FAILURE"/>
<xs:enumeration value="CALL ESTABLISHMENT ERROR"/>
<xs:enumeration value="INVALID MESSAGE RECEIVED"/>
<xs:enumeration value="INVALID MSU RECEIVED"/>
<xs:enumeration value="LAPD LINK PROTOCOL FAILURE"/>
<xs:enumeration value="LOCAL ALARM INDICATION"/>
<xs:enumeration value="REMOTE ALARM INDICATION"/>
<xs:enumeration value="ROUTING FAILURE"/>
<xs:enumeration value="SS7 PROTOCOL FAILURE"/>
<xs:enumeration value="TRANSMISSION FAILURE"/>
<xs:enumeration value="AUTHENTICATION FAILURE"/>
<xs:enumeration value="BREACH OF CONFIDENTIALITY"/>
<xs:enumeration value="CABLE TAMPER"/>
<xs:enumeration value="DELAYED INFORMATION"/>
<xs:enumeration value="DENIAL OF SERVICE"/>
<xs:enumeration value="DUPLICATE INFORMATION"/>
<xs:enumeration value="INFORMATION MISSING"/>
<xs:enumeration value="INFORMATION MODIFICATION DETECTED"/>
<xs:enumeration value="INFORMATION OUT OF SEQUENCE"/>
<xs:enumeration value="KEY EXPIRED"/>
<xs:enumeration value="NON REPUDIATION FAILURE"/>
<xs:enumeration value="OUT OF HOURS ACTIVITY"/>
<xs:enumeration value="OUT OF SERVICE"/>
<xs:enumeration value="PROCEDURAL ERROR"/>
```

```
<xs:enumeration value="UNAUTHORISED ACCESS ATTEMPT"/>
    <xs:enumeration value="UNEXPECTED INFORMATION"/>
    <xs:enumeration value="UNSPECIFIED REASON"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ThresholdIndicator">
  <xs:restriction base="xs:string">
    <xs:enumeration value="UP"/>
    <xs:enumeration value="DOWN"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="TrendIndicator">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Less Severe"/>
    <xs:enumeration value="No Change"/>
    <xs:enumeration value="More Severe"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="additionalInformation" type="xs:string"/>
<xs:element name="additionalText" type="xs:string"/>
<xs:element name="alarmID" type="xs:long"/>
<xs:element name="alarmType" type="EventType"/>
<xs:element name="correlatedNotifications" type="CorrelatedNotificationSet"/>
<xs:element name="perceivedSeverity" type="ProbableCause"/>
<xs:element name="probableCause" type="ProbableCause"/>
<xs:element name="reason" type="AlarmListRebuiltReason"/>
<xs:complexType name="AttributeValue">
    <xs:element name="attribute-name" type="xs:string"/>
    <xs:element name="attribute-value" type="xs:anySimpleType"/>
</xs:complexType>
<xs:complexType name="AttributeValueSet">
  <xs:sequence>
    <xs:element name="attribueValue" type="AttributeValue" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="AttributeValueChange">
  <xs:all>
    <xs:element name="attribute-name" type="xs:string"/>
    <xs:element name="old-value" type="xs:anySimpleType"/>
<xs:element name="new-value" type="xs:anySimpleType"/>
  </xs:all>
</xs:complexType>
<xs:complexType name="AttributeValueChangeSet">
  <xs:sequence>
    <xs:element name="attributeValueChange" type="AttributeValueChange" minOccurs="0"</pre>
                max0ccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="Comment">
  <xs:sequence>
    <xs:element name="comment-date" type="xs:dateTime"/>
    <xs:element name="comment-text" type="xs:string"/>
    <xs:element name="user-id" type="xs:string"/>
    <xs:element name="system-id" type="xs:string"/>
  </xs:sequence>
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            <xs:sequence>
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              <xs:element ref="alarmType"/>
              <xs:element ref="alarmID"/>
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              <xs:element name="ackState" type="AckState"/>
              <xs:element name="ackUserID" type="xs:string"/>
              <xs:element name="ackSystemID" type="xs:string" minOccurs="0"/>
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      substitutionGroup="xe:Notification"/>
</xs:schema>
```

# Annex A (informative): XML schema electronic files

The informative XML schema electronic files corresponding to the present document, if available, are contained in archive 32111-5-600-XMLSchema.zip which accompanies the present document.

# Annex B (informative): Change history

Change history										
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New			
Dec 2004	S_26	SP-040792			Submitted to TSG SA#26 for Information	1.0.0				
Mar 2005	S_27	SP-050022			Submitted to TSG SA#27 for Approval	2.0.0	6.0.0			

## History

Document history						
V6.0.0	March 2005	Publication				