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Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Generic Integration Reference Point (IRP) management;
Requirements
(3GPP TS 32.311 version 4.1.0 Release 4)**



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Foreword

This Technical Specification (TS) 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 the 32.300-series covering the 3rd Generation Partnership Project: Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

32.311: "Generic Integration Reference Point (IRP) management; Requirements";

32.312: "Generic Integration Reference Point (IRP) management; Information Service (IS)".

The Itf-N interface is built up by a number of Integration Reference Points (IRPs) and a related Name Convention, which realise the functional capabilities over this interface. The basic structure of the IRPs is defined in 3GPP TS 32.101 [1] and 3GPP TS 32.102 [2].

The IRPs support a set of common services. Those features allow to retrieve IRP profile and IRP supported versions. The present document contains the requirements of those common services.

1 Scope

The purpose of the present document is to define a common service supported by all IRPs such as AlarmIRP. The present document is the "Requirements" part. It defines the requirements that shall be fulfilled by all IRPs, such as AlarmIRP, supporting this common service.

With this common service supported by all IRPs, an IRPManager shall be able to retrieve the profile of operations and notifications supported by a given IRP which is name-contained by an IRPAgent. An IRPManager shall also be able to retrieve the IRPVersions supported by the given IRP.

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 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 the following apply:

IRP: see 3GPP TS 32.102 [2].

IRPAgent: see 3GPP TS 32.102 [2].

IRPManager: see 3GPP TS 32.102 [2].

IRP document version number string: the IRP document version number (sometimes called "IRPVersion") string is used to identify a particular IRP Solution Set (SS) specification. It is derived using the following rule:

- Take the 3GPP TS version number on the front page of the SS specification, such as "3GPP TS 32.111-3 (V4.1.0)". Discard the leading "3GPP TS". Discard all characters after and including the last period. Eliminate leading and trailing spaces. Reduce multiple consecutive spaces with one space. Express the resultant in a string. Capitalise the string.

EXAMPLE: If the 3GPP document version number is "3GPP TS 32.111-3 V4.1.0 (2001-09)", then the IRP document version number shall be "32.111-3 V4.1".
If the 3GPP document version number is "3GPP TS 32.303 V4.1.0 (2001-09)", then the IRP document version number shall be "32.303 V4.1".

3.2 Abbreviations

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

CM	Configuration Management
EM	Element Manager
IRP	Integration Reference Point
IS	Information Service
NE	Network Element
NM	Network Manager
SS	Solution Set

4 Generic IRP functions over Itf-N

The requirements for the generic IRP service over Itf-N are provided in the following clauses.

4.1 Versions retrieval function

Each IRP supported by an IRPAgent is fully identified by the version number of the corresponding IRP specification. An IRPAgent can simultaneously support several versions of the same IRP. An IRPAgent shall provide over Itf-N a function that is capable of retrieving all the IRPVersion(s) (i.e. *IRP document version number string(s)*) of an IRP currently supported by IRPAgent. An IRPManager shall then be able to decide which IRPVersion it is going to talk to. The IRP document version number string format is defined in clause 3.1 of the present document.

4.2 Profiles retrieval functions

Each IRP supported by an IRPAgent provides a set of operations and notifications. It is possible to define in each IRP Information Service (IS) some operations and notification that are optional, which means that the final implementation of those operations and notifications is vendor dependant. Similarly, some parameters of operations and notifications may be defined as optional in the IRP IS.

It shall be possible for an IRPManager to retrieve over Itf-N the profile of an IRP of a given version: the profile shall provide information such as name of supported operations and notifications, and the list of supported parameters for each supported operation and notification.

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010285	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Jul 2001	--	--	--	--	TS number wrongly shown as 32.312 instead of 32.311	4.0.0	4.0.1
Dec 2002	--	--	--	--	Cosmetics	4.0.1	4.0.2
Dec 2003	S_22	SP-030639	001	--	Align with 32.102	4.0.2	4.1.0

History

Document history		
V4.0.1	July 2001	Publication (Withdrawn)
V4.0.2	December 2002	Publication
V4.1.0	December 2003	Publication