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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 4.0.2 Release 4)**

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**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

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## Foreword

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## Foreword

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

The present document is part of the 32.300-series covering the 3<sup>rd</sup> Generation Partnership Project: Technical Specification Group Services and System Aspects; Telecommunication Management; Generic Integration Reference Point (IRP) management, as identified below:

**32.311: "Requirements";**

32.312: "Information Service".

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.

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## Introduction

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.

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# 1 Scope

The purpose of the present document is to define a common service supported by all IRPs. The present document is the "Requirements" part. It defines, for the purpose of supporting the common service, the requirements that shall be fulfilled by all IRPs supporting this 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 are by an IRPAgent. An IRPManager shall also be able to retrieve the different versions supported by an IRP.

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# 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: "3G Telecom Management principles and high level requirements".
- [2] 3GPP TS 32.102: "3G Telecom Management Architecture".
- [3] 3GPP TS 32.106-3 (V3.2.0): "Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point: CORBA solution set version 1:1".

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# 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] and 3GPP TS 32.102 [2] and the following apply:

**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 specification

It is derived using the following rule. Take the 3GPP document version number on the front page of the solution set specification, such as "3GPP TS 32.106-3 (V3.2.0)". 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. Capitalised the string.

EXAMPLE: If the 3GPP document version number is "3GPP TS 32.106-3 V3.2.0 (2000-12)", then the IRP document version number shall be "32.106 V3.2".

**IRP:** See 3GPP TS 32.102 [2].

**qualifiers:** the meaning of qualifiers for operations, parameters and information attributes (whether they are Mandatory(M)/ Conditional(C)/ Optional(O)) defined in the present (Information Service) document is provided in 3GPP TS 32.102 [2]

Moreover, qualifiers of information attributes, when those information attributes are re-used in other IRP ISs, obey to the following rule: Mandatory and Conditional qualifiers of information attributes shall always be the same in other IRPs ISs, Optional qualifiers of information attributes may be set to either Optional or Mandatory in the other IRP ISs

## 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

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## 4 Generic IRP functions over Itf-N

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

### 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 of an IRP currently supported by IRPAgent. An IRPManager shall then be able to decide which IRP version it is going to talk to.

### 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 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 Information Service.

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.

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## 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

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# History

<b>Document history</b>		
V4.0.1	July 2001	Publication (Withdrawn)
V4.0.2	December 2002	Publication