## 3GPP TS 28.651 V11.0.0 (2012-12)

Technical Specification

3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
Telecommunication management;
Universal Terrestrial Radio Access Network (UTRAN)
Network Resource Model (NRM)
Integration Reference Point (IRP);
Requirements
(Release 11)





#### Keywords

NRM, IRP, Converged Management, UTRAN

#### 3GPP

#### Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis Valbonne - FRANCE Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet

http://www.3gpp.org

#### Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© 2012, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TTA, TTC). All rights reserved.

UMTS<sup>TM</sup> is a Trade Mark of ETSI registered for the benefit of its members  $3GPP^{TM}$  is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners LTE<sup>TM</sup> is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners GSM® and the GSM logo are registered and owned by the GSM Association

## Contents

Fore	word	4
Intro	oduction	4
1	Scope	5
2	References	5
3	Definitions and abbreviations	5
3.1	Definitions	5
	Abbreviations	
4	Requirements	6
Ann	ex A (informative): Change historyError! Bookmark not define	ed.

## **Foreword**

This Technical Specification has been produced by the 3<sup>rd</sup> 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.

#### Ready for Converged Management

This specification is part of a set that has been developed for converged management solutions.

## 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:

28.651	UTRAN Network Resource Model (NRM) Integration Reference Point (IRP); Requirements
28.652	UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)
28.653	UTRAN Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions

## 1 Scope

The present document defines, in addition to the requirements defined in [1], [2] and [3], the requirements for the present IRP: Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM).

## 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 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".
- [4] 3GPP TS 32.107: "Telecommunication management; Fixed Mobile Convergence (FMC) Federated Network Information Model (FNIM)".
- [5] 3GPP TS 28.620: "Telecommunication management; Fixed Mobile Convergence (FMC) Federated Network Information Model (FNIM) Umbrella Information Model (UIM)".
- [6] 3GPP TS.28.622: "Generic Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)".

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

**IRP:** See 3GPP TS 32.101 [1].

**Information Object Class (IOC):** See definition in TS 28.622 [6].

Network Resource Model (NRM): See definition in TS 28.622 [6].

#### 3.2 Abbreviations

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

CM Configuration Management FDD Frequency Division Duplex GSM Global System for Mobile communication

IRP Integration Reference Point
NRM Network Resource Model
TDD Time Division Duplex

UMTS Universal Mobile Telecommunications System UTRAN Universal Terrestrial Radio Access Network

## 4 Requirements

The following general and high-level requirements apply for the present IRP:

- A. IRP-related requirements in 3GPP TS 32.101 [1].
- B. IRP-related requirements in 3GPP TS 32.102 [2].
- C. IRP-related requirements in 3GPP TS 32.600 [3].

The NRM defined by this IRP:

- D. Shall support communications for telecommunication network management purposes, including management of converged networks.
- E. Is a member of the Federated Network Information Model (FNIM) [4] and its information is derived from FNIM Umbrella Information Model (UIM) [5].

In addition, the following more specific requirements apply:

**REQ-UTRAN\_NRM-CON-001:** The NRM defined by this IRP shall contain UTRAN specific IOCs and related definitions, supporting UTRAN network entities, which shall include FDD and TDD mode aspects.

**REQ-UTRAN\_NRM-CON-002:** The NRM defined by this IRP shall support management of UMTS-GSM intersystem handover.

# Annex A (informative): Change history

Change history												
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New				
2012-11					First draft			0.1.0				
2012-12	SA#58				Presented for information and approval		0.1.0	1.0.0				
2012-12					New version after approval		1.0.0	11.0.0				