



**Universal Mobile Telecommunications System (UMTS);
LTE;
Telecommunication management;
Universal Terrestrial Radio Access Network (UTRAN)
Network Resource Model (NRM)
Integration Reference Point (IRP);
Requirements
(3GPP TS 28.651 version 13.0.0 Release 13)**



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Foreword

This Technical Specification 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;
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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 3rd 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)'.
 - [7] 3GPP TS 32.130: "Telecommunication management; Network sharing; Concepts and requirements".
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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:

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

The NRM defined by this IRP:

- Shall support communications for telecommunication network management purposes, including management of converged networks.
- 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 inter-system handover.

REQ-UTRAN_NRM-CON-003: The NRM defined by this IRP shall support the management of shared UTRAN.

Annex A (informative): Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
2014-06	SA#64	SP-140358	001	-	remove the feature support statements	F	11.0.0	11.1.0
2014-09	-	-	-	-	Update to Rel-12 version (MCC)		11.1.0	12.0.0
2014-12	SA#66	SP-140800	002	-	Add requirement for the management of shared UTRAN	B	12.0.0	12.1.0
2016-01	-	-	-	-	Update to Rel-13 version (MCC)		12.1.0	13.0.0

History

Document history		
V13.0.0	January 2016	Publication