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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 17.0.1 Release 17)



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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;
 - 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 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".

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 intersystem 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	CR	Rev	Subject/Comment		Old	New
		Doc.						
2014-06	SA#64	SP-	001	-	remove the feature support statements	F	11.0.0	11.1.0
		140358						
2014-09	-	-	-	-	Update to Rel-12 version (MCC)		11.1.0	12.0.0
2014-12	SA#66	SP-	002	-	Add requirement for the management of shared UTRAN	В	12.0.0	12.1.0
		140800						
2016-01	-	-	-	-	Update to Rel-13 version (MCC)		12.1.0	13.0.0
2017-03	SA#75	-	-	-	Promotion to Release 14 without technical change		13.0.0	14.0.0

	Change history						
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2018-06	-	-	-	-	-	Update to Rel-15 version (MCC)	15.0.0
2020-07	-	-	-	-	-	Update to Rel-16 version (MCC)	16.0.0
2022-03	-	-	-	-	-	Update to Rel-17 version (MCC)	17.0.0
2023-02						Removal of LTE and 5G logos (MCC)	17.0.1

History

Document history					
V17.0.0	April 2022	Publication (withdrawn)			
V17.0.1	February 2023	Publication			