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Contents

ntellectual Property Rights	2			
Foreword	2			
Modal verbs terminology	2			
Foreword	4			
ntroduction	4			
Scope	5			
References	5			
Definitions and abbreviations. Definitions	.5 5			
Requirements	5			
Annex B (informative): Change history	.7			
1 Scope 5 2 References 5 3 Definitions and abbreviations 5 3.1 Definitions 5 3.2 Abbreviations 5 4 Requirements 5 Annex B (informative): Change history 7 History 5				

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:

- 28.731 Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Requirements.
- 28.732 Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS).
- 28.733 Transport Network (TN) interface 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: Transport Network (TN) interface 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]

Network Resource Model (NRM): See definition in TS 32.622 [6].

3.2 Abbreviations

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

CM Configuration Management

GSM Global System for Mobile communication

IRP Integration Reference Point NRM Network Resource Model

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-TN_NRM-CON-001: The NRM specified by this IRP shall allow for the configuration of the ATM Termination Points of the UTRAN inter element links (Iub-link, Iur-link, Iu-link), which are residing in a Node B or RNC. More specifically, the NRM:

- 1) shall allow for the viewing of the physical layer used by the ATM network (e. g. E1);
- 2) shall allow for the viewing of parameters of the virtual circuits associated with each link (e.g. VPI/VCI, ATM Service Category, AAL type, Peak Cell Rate, Sustainable Cell Rate, Maximum Burst Size);
- 3) shall allow the assigning of a UTRAN interface logical channel (e.g. Iub-NBAP) to a virtual circuit and configuration of parameters of the virtual circuit (e.g. VPI/VCI, ATM Service Category, AAL type, Peak Cell Rate, Sustainable Cell Rate, Maximum Burst Size);
- 4) shall allow to relate the ATM Termination Point easily to the associated link;
- 5) shall allow to relate the ATM Termination Point easily to the network element and the type of network element it is connected to.

REQ-TN_NRM-CON-002: The NRM defined by this IRP shall be generic in the sense to allow support for multiple transport technologies (e.g. IP) in the future;

REQ-TN_NRM-CON-003: The NRM defined by this IRP shall be generic in the sense to allow support for the management of termination points of other interface links (e. g. links between network elements of the CN) in the future.

Annex B (informative): Change history

	Change history							
Date	TSG #	TSG Doc.	CR	Rev	ev Subject/Comment Ca		Old	New
2014-06	SA#64	SP- 140358	001	-	remove the feature support statements F 11.0.			11.1.0
2014-10	-	-	-	-	Update to Rel-12 version (MCC)		11.1.0	12.0.0
2016-01	-	-	-	-	Update to Rel-13 version (MCC)		12.0.0	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

History

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V15.0.0	July 2018	Publication			