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Technical Specification

Universal Mobile Telecommunications System (UMTS);

LTE;

Telecommunication management;

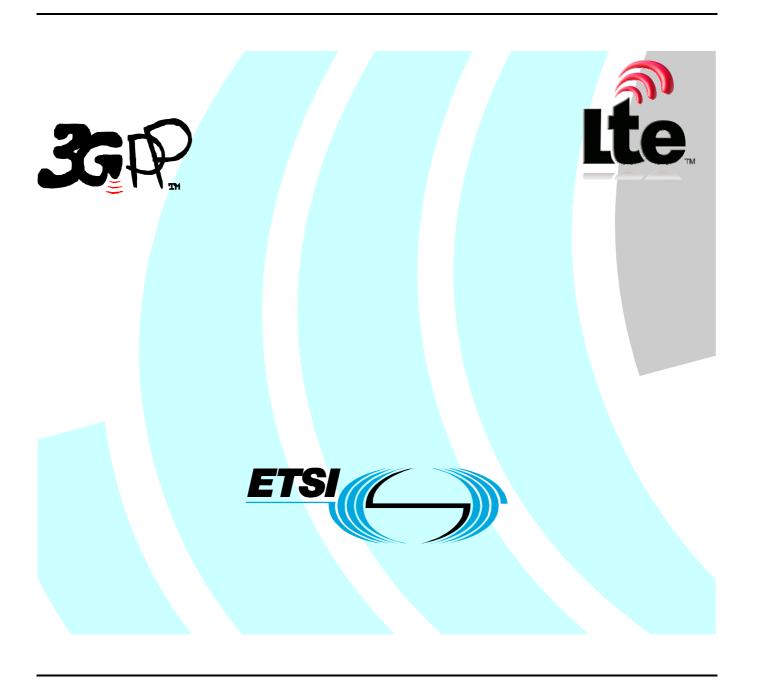
Home Node B (HNB) Subsystem (HNS)

Network Resource Model (NRM)

Integration Reference Point (IRP);

Requirements

(3GPP TS 32.771 version 9.0.0 Release 9)



Reference DTS/TSGS-0532771v900 Keywords LTE. UMTS

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

This Technical Report 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:

32.771:	Telecommunication management; Home Node B Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements
32.772:	Telecommunication management; Home Node B Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)
32.773:	Telecommunication management; Home Node B Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)
32.775:	Telecommunication management; Home Node B Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition

1 Scope

The document describes the requirements for Home NodeB Subsystem (HNS), which includes Home NodeB (HNB) and Home NodeB gateway (HNB GW). The HNS NRM IRP requirements are targeted on both HNB and HNB GW 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 25.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
- [3] 3GPP TS 32.102: "Telecommunication management; Architecture".
- [4] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".
- [5] 3GPP TS 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

Integration Reference Point (IRP): See 3GPP TS 32.150 [5].

Information Service (IS): See 3GPP TS 32.150 [5].

Solution Set (SS): See 3GPP TS 32.150 [5].

IRP Solution Set: See 3GPP TS 32.101 [1].

3.2 Abbreviations

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

CN Core Network
GW Gateway
HNB Home Node B
HNS Home Node B Subsystem
IRP Integration Reference Point

Information Object Class Network Resource Model IOC

NRM

SCTP Stream Control Transmission Protocol

4 Concepts and background

TBD

5 Requirements

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

- A. IRP-related requirements in 3GPP TS 32.101 [2].
- B. IRP-related requirements in 3GPP TS 32.102 [3].
- C. IRP-related requirements in 3GPP TS 32.600 [4].

In addition to the above, the following more specific requirements apply:

REQ-HNS_GW-CON-001 The Network Resource Model defined by this IRP shall contain HNB GW specific IOCs and related definitions.

REQ-HNS_GW-CON-002 The Network Resource Model defined by this IRP shall provide support for enabling consistency between HNB GW, HNB and related core network nodes.

REQ-HNS_GW-CON-003 The NRM specified by this IRP shall be able to view configuration information of the HNB GW entity. More detailed information is as follows:

- Shall allow for the viewing of basic configuration information including version, equipment type, equipment provider and unique identification, etc.
- Shall allow for the viewing of network configuration information including IP address, sub-network mask, default gateway and port configuration information, etc.
- Shall allow for the viewing of service related configuration information, for example the maximum number of HNB to be registered, the maximum number of packets to be forwarded, etc.

REQ-HNS_GW-CON-004 The NRM specified by this IRP shall capture Iuh interface information of HNB GW. More detailed information is as follows:

- Shall allow for the viewing of basic configuration information including Iuh identification etc.
- Shall allow for the viewing of network configuration information including SCTP management information, etc.

REQ-HNS_GW-CON-005 The NRM specified by this IRP shall capture the identity of registered HNB

Annex A (informative): Change history

Change history									
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New		
Sep 2009	SA#45	SP-090548			Presentation to SA for Information		1.0.0		
Dec 2009	SA#46	SP-090739			Presentation to SA for Approval	1.0.0	2.0.0		
Dec 2009					Publication	2.0.0	9.0.0		

History

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V9.0.0	February 2010	Publication					