TTC仕様書
Technical Specification

TS-3GA-36.411(Rel12)v12.0.0

Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1

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一般社団法人

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THE TELECOMMUNICATION TECHNOLOGY COMMITTEE

TTC Telecommunication Technology Committee

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＜参考＞ [Remarks]

１．英文記述の適用レベル [Application level of English description]

適用レベル [Application level]：E2

本標準の本文、付属資料および付録の文章および図に英文記述を含んでいる。

[English description is included in the text and figures of main body, annexes and appendices.]

２．国際勧告等の関連 [Relationship with international recommendations and standards]

本標準は、3GPP で承認された Technical Specification 36.411 (Version 12.0.0) に準拠している。

[This standard is standardized based on the Technical Specification 36.411 (Version 12.0.0) approved by 3GPP.]

３．上記国際勧告等に対する追加項目等 [Departures from international recommendations]

原標準に対する変更項目 [Changes to original standard]

原標準が参照する標準のうち、TTC 標準に置き換える項目。[Standards referred to in the
original standard, which are replaced by TTC standards.]

原標準が参照する標準のうち、それらに準拠した TTC 標準等が制定されている場合は自動的に
最新版 TTC 標準等に置き換え参照するものとする。　[Standards referred to in the original standard
should be replaced by derived TTC standards.]

４．工業所有権 [IPR]

本標準に関わる「工業所有権等の実施の権利に係る確認書」の提出状況は、ＴＴＣホームページによる。

[Status of "Confirmation of IPR Licensing Condition" submitted is provided in the TTC web site.]

５．作成専門委員会 [Working Group]

3GPP 専門委員会 [3GPP Working Group]

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Contents

Foreword

This Technical Specification has been produced by the 3rd 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.

1 Scope

The present document specifies the standards allowed to implement layer 1 on the S1 interface.

The specification of transmission delay requirements and O&M requirements are not in the scope of the present document.

In the following, 'layer 1' and 'physical layer' are assumed to be synonymous.

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 TR 21.905: "Vocabulary for 3GPP Specifications".

[2]   Void

[3]   Void

[4]   Void

[5]   Void

[6]   Void

3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and   the following abbreviations apply:

E-UTRAN   Evolved Universal Terrestrial Radio Access Network

4 Introduction

The main functions of layer 1 are summarized in the following:

- Interface to physical medium;

- Frame delineation;

- Line clock extraction capability;

- Layer 1 alarms extraction and generation;

- Transmission quality control.

5 Layer 1 specifications

The support of any suitable layer 1 technique - like point-to-point or point-to-multipoint techniques - shall not be prevented.

6 Interface to management plane

The description of the interface towards the management plane is out of scope of this document, but at least the following O&M functions should be foreseen:

- Performance monitoring functions;

- Alarm status reporting functions;

- Synchronisation source management.

Annex A (informative):
Change history

Change history								
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**		**Old**	**New**
2007-09	37	RP-070586			specification presented to TSG-RAN for information		0.0.2	1.0.0
2007-11	38	RP-070849			specification presented to TSG-RAN for approval		1.0.0	2.0.0
2007-12	38				specification approved at TSG-RAN and placed under change control		2.0.0	8.0.0
2008-12	42	RP-080844	001		Rapporteurs Cut		8.0.0	8.1.0
2009-12					Created Rel-9 version based on v8.1.0		8.1.0	9.0.0
2010-12					Created Rel-10 version based on v 9.0.0		9.0.0	10.0.0
2011-06	52	RP-110684	004		Correction of references		10.0.0	10.1.0
2012-09					Update to Rel-11 version (MCC)		10.1.0	11.0.0
2014-09					Update to Rel-12 version (MCC)		11.0.0	12.0.0