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Technical Specification

**3rd Generation Partnership Project;
Technical Specification Group Radio Access Network;
NG-RAN;
E1 layer 1
(Release 16)**



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3GPP

Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet

<http://www.3gpp.org>

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Contents

Foreword	4
1 Scope	5
2 References	5
3 Abbreviations	5
3.1 Void	5
3.2 Void	5
4 Introduction	5
Annex A (informative): Change history	6

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:

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where:

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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.

1 Scope

The present document specifies the standards allowed to implement layer 1 on the E1 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 TS 38.411: "NG-RAN; NG layer 1".

3 Abbreviations

For the purposes of the present document, the abbreviations given in TS 38.411 [1] apply.

3.1 Void

3.2 Void

4 Introduction

The E1 Layer 1 shall comply with the requirements of clauses 4 through 6 in TS 38.411 [1].

Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2018-02	R3#99	R3-181357	-	-	-	Skeleton	0.0.0
2018-02	R3#99	R3-181420	-	-	-	Editorial changes, including R3#99 agreements	0.1.0
2018-05	R3#100	R3-183605				Removal of Editor's note	0.2.0
2018-06	RP#80	RP-180996				First submission to RAN for approval	1.0.0
2018-06	RAN#80		-	-	-	Specification approved at TSG-RAN and placed under change control	15.0.0
2019-09	RP-85	RP-192166	0002	1	F	Clean up empty sections	15.1.0
2020-07	SA#88-e	-	-	-	-	Update to Rel-16 version (MCC)	16.0.0