

TTA Standard

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3GPP-(Technical Speciation
Group Radio Access Network;
NG-RAN; F1 layer 1)



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Technical Specification

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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

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1 Scope

The present document specifies the standards allowed to implement Layer 1 on the F1 interface. The F1 interface provides means for interconnecting a gNB-CU and a gNB-DU of a gNB within an NG-RAN, or for interconnecting a gNB-CU and a gNB-DU of an en-gNB within an E-UTRAN.

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".
- [2] 3GPP TS 38.401: "NG-RAN; Architecture Description".
- [3] 3GPP TS 38.300: "NR; Overall description; Stage-2".
- [4] 3GPP TS 37.340: "NR; Multi-connectivity; Overall description; Stage-2".

3 Definitions, symbols and abbreviations

3.1 Definitions

gNB-CU: as defined in TS 38.401 [2]

gNB-DU: as defined in TS 38.401 [2]

gNB: as defined in TS 38.300 [3]

en-gNB: as defined in TS 37.340 [4]

3.2 Abbreviations

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

4 Introduction

The F1 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
2017-06	RAN3-NR#2	R3-172602				Replace sections 4, 5 and 6 by a reference to NG Layer 1 requirements.	0.2.0
2017-10	RAN3#97 bis	R3-174245				Implementing the agreed pCR from RAN3#97bis meeting: R3-174127	0.3.0
2017-12	RAN#78	RP-172493				Version submitted to RAN for approval. Correction of the references in "Definitions, symbols and abbreviations" section. Table of contents changes	1.0.0
2017-12	RAN#78					TR approved by RAN plenary	15.0.0