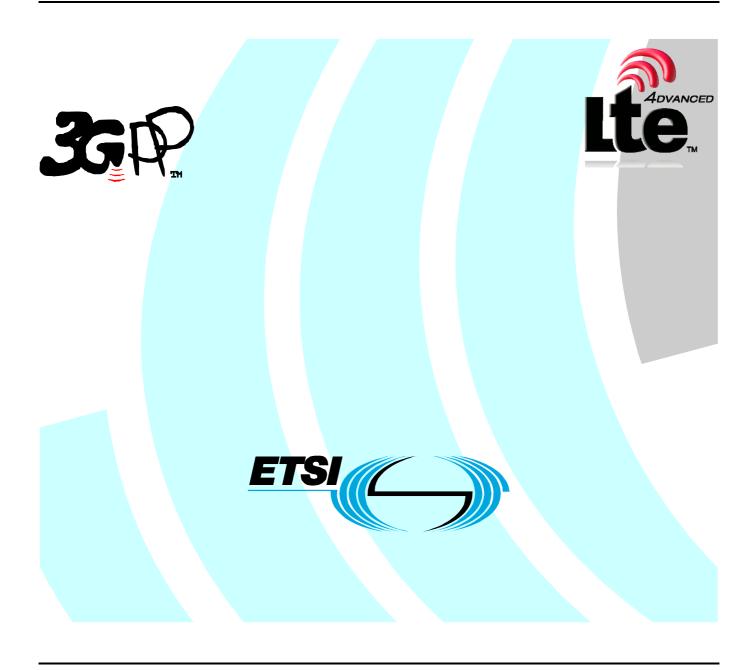
## ETSITS 136 421 V10.0.0 (2011-01)

Technical Specification

LTE; Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 layer 1 (3GPP TS 36.421 version 10.0.0 Release 10)



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#### Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> 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.

## 1 Scope

The present document specifies the standards allowed to implement Layer 1 on the X2 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 36.411: "Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1".

## 3 Definitions, symbols and abbreviations

#### 3.1 Definitions

For the purposes of the present document, the definitions given in 3GPP TS 36.411 apply.

## 3.2 Symbols

For the purposes of the present document, the symbols given in 3GPP TS 36.411 apply.

#### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TS 36.411 apply.

#### 4 Introduction

The X2 Layer 1 shall comply with the requirements of clauses 5 through 8 in [1].

# Annex A (informative): Change history

	Change history								
TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New			
37	RP-070587			specification presented to TSG-RAN for information	0.0.1	1.0.0			
38	RP-070854			specification presented to TSG-RAN for approval	1.0.0	2.0.0			
38				specification approved at TSG-RAN and placed under change control	2.0.0	8.0.0			
46				Upgraded to Release 9	8.0.0	9.0.0			
				History section updated	9.0.0	9.0.1			
				Rel-10 created based on v. 9.0.1	9.0.1	10.0.0			
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## History

Document history								
V10.0.0	January 2011	Publication						