
**Intelligent transport systems —
Communications access for land
mobiles (CALM) — Evolved Universal
Terrestrial Radio Access Network
(E-UTRAN) —**

**Part 1:
General usage**

*Systèmes intelligents de transport — Accès aux communications
des services mobiles terrestres (CALM) — Réseau d'accès à la radio
terrestre universelle évoluée (E-UTRAN) —*

Partie 1: D'usage général



This document is a preview generated by EBS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Adoption of other standards and internationally adopted practices	3
6 Communication and management adaptation	3
6.1 Communication interface	3
6.2 Communication adaptation	3
6.2.1 Communication adaptation layer	3
6.3 Management adaptation.....	3
6.3.1 Management adaptation entity	3
6.3.2 Mapping of E-UTRAN connection states to ISO 21218 CI states.....	4
6.3.3 Connection and disconnection procedure.....	4
6.4 CI parameters.....	5
6.4.1 General.....	5
6.4.2 E-UTRAN specific parameters.....	5
6.4.3 Communication profile parameters.....	5
7 Session establishment and termination procedures	6
Annex A (informative) E-UTRAN initial access/default bearer establishment	7
Bibliography	10

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 204, *Intelligent transport systems*.

ISO 17515 consists of the following parts, under the general title *Intelligent transport systems — Communications access for land mobiles (CALM) — Evolved Universal Terrestrial Radio Access Network (E-UTRAN)*:

— *Part 1: General usage*

Additional parts, dealing with direct communications and routing functionalities, are under preparation.

Introduction

This International Standard is a member of the set of International Standards developed under the acronym “Communications Access for Land Mobiles” (CALM) that refers to ISO/TC 204 work items. An introduction to this set of International Standards is provided in ISO 21217.

This part of ISO 17515 is part 1 of a multipart standard which determines usage of technology developed under the acronym E-UTRAN for usage as a communication interface in an ITS station unit.

The term long-term evolution (LTE) is commonly used to refer to the set of standards containing the E-UTRAN technical specifications. In this part of ISO 17515, the term “E-UTRAN” is used to refer to these specifications and can be treated as a synonym for “LTE”.

Intelligent transport systems — Communications access for land mobiles (CALM) — Evolved Universal Terrestrial Radio Access Network (E-UTRAN) —

Part 1: General usage

1 Scope

This part of ISO 17515 enables usage of the E-UTRAN cellular network technology as an ITS access technology in an ITS station by specifying details of the “Communication Adaptation Layer” (CAL) and the “Management Adaptation Entity” (MAE) of communication interfaces specified in ISO 21218, and session management by reference to ISO 25111.

Wherever practicable, this part of ISO 17515 has been developed by reference to suitable extant standards, adopted by selection.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 21217:2014, *Intelligent transport systems — Communications access for land mobiles (CALM) — Architecture*

ISO 21218:2013, *Intelligent transport systems — Communications access for land mobiles (CALM) — Access technology support*

ISO 24102-3:2013, *Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management — Part 3: Service access points*

ISO 25111:2009, *Intelligent transport systems — Communications access for land mobiles (CALM) — General requirements for using public networks*

3GPP TS 36.331, *Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification (Release 10)*

ETSI/TS 102 760-1, *Intelligent Transport Systems (ITS); Communications Access for Land Mobiles (CALM); Test specifications for Access Technology Support (ISO 21218); Part 1: Implementation Conformance Statement (ICS) proforma*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

I-Parameter

parameter of a CI

[SOURCE: ISO 21218]