

COMMUNICATIONS ALLIANCE LTD



AUSTRALIAN STANDARD

AS/CA S003.2:2010

Requirements for Customer Access Equipment for
connection to a Telecommunications Network —
Part 2: Analogue and TDM based technologies

**Adopted for
regulatory purposes**

Australian Standard – Requirements for Customer Access Equipment for connection to a Telecommunications Network — Part 2: Analogue and TDM based technologies

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FOREWORD

General

This Standard was prepared by the Communications Alliance WC20 : **Customer Access Equipment Revision** Working Committee. It is one of a series of Telecommunication Standards developed under the Memorandum of Understanding between the Australian Communications Authority (ACA) and the Australian Communications Industry Forum.

Note: On 1 July 2005 the ACA became the Australian Communications and Media Authority (ACMA) and the Memorandum of Understanding continues in effect as if the reference to the ACA were a reference to ACMA.

This Standard is a revision of the AS/ACIF S003:2005 and AS/ACIF S003:2008 *Customer Access Equipment for connection to a Telecommunications Network* Standards. This Standard is the result of a consensus among representatives on the Communications Alliance Working Committee to produce it as an Australian Standard.

The designation of this Standard has been changed from AS/ACIF to AS/CA to reflect that the Standard has been published by Communications Alliance as an accredited Standards Development Organisation.

The requirements in this Standard are consistent with the aims of s376 of the *Telecommunications Act 1997*. Specifically these aims are—

- (a) protecting the integrity of a telecommunications network or facility;
- (b) protecting the health and safety of persons;
- (c) ensuring access to emergency services; and
- (d) ensuring interoperability with a standard telephone service.

It should be noted that some Customer Equipment (CE) may also need to comply with requirements in other Standards or other Parts of this Standard.

Part 2 of this Standard should be read in conjunction with AS/CA S003.1 [3].

Applicable electrical safety Standards and EMC Standards may apply under Commonwealth or State laws, or both.

Intellectual property rights

Equipment which is manufactured to comply with this Standard may require the use of technology which is protected by patent rights in Australia. Questions about the availability of such technology, under licence or otherwise, should be directed to the patent holder or Australian licensee (if known) or through enquiry at IP Australia which incorporates the Patent, Designs and Trade Marks Offices. Further information can be found at www.ipaustralia.gov.au.

Standards revision

Australian Standards (AS/ACIF and AS/CA Standards) developed by Communications Alliance, are updated, according to the needs of the industry, by amendments or revision. Users of these Standards should make sure that they possess the latest amendments or editions. Representations concerning the need for a change to this AS/CA Standard should be addressed to:

The Project Manager
Customer Equipment and Cable Reference Panel
Communications Alliance
PO Box 444
Milsons Point NSW 1565

Regulatory notice

This document has been made by ACMA as Telecommunications Technical Standard AS/CA S003.2-2010 under s376 of the *Telecommunications Act 1997*.

ACMA is a Commonwealth authority with statutory powers to impose requirements concerning telecommunications Customer Equipment and Customer Cabling.

ACMA requires Australian manufacturers and importers, or their Australian agents, of specified items of Customer Equipment and Customer Cabling to establish compliance with Standards such as this. Items are required to be labelled in accordance with the applicable labelling notices.

Details on current compliance arrangements can be obtained from the ACMA website at <http://www.acma.gov.au> or by contacting ACMA below at:

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Melbourne VIC 8010
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Introduction

This introduction for the AS/CA S003.2 **Requirements for Customer Access Equipment for connection to a Telecommunications Network — Part 2: Analogue and TDM based technologies** Standard is not an authoritative section of this Standard and is only provided as guidance for the user of the Standard to outline its objectives, and the factors that have been taken into account in its development.

The reader is directed to the clauses of this Standard for the specific requirements and to the Australian Communications and Media Authority (ACMA) for the applicable telecommunications labelling and compliance arrangements.

Note: Further information on the telecommunications labelling and compliance arrangements can be found in *The Telecommunications Labelling (Customer Equipment and Customer Cabling) Notice* (the TLN). The TLN can be obtained from the Australian Communications and Media Authority (ACMA) website at www.acma.gov.au.

The objective of this Standard is to provide the requirements and test methods for customer equipment that provides access (gateway functions) to a Telecommunications Network in order to meet the regulatory arrangements for such equipment in Australia. The objective of Part 2 of this Standard is to provide requirements specifically for analogue and PCM-based TDM (Pulse Code Modulation-based Time Division Multiplexing) technologies, but not including packet or cell based technologies.

The objective of this revision is to divide the requirements for customer equipment that provides access (gateway functions) into technology specific Parts. The separation of requirements into Part 2 facilitates compliance of—

- (i) modified Customer Access Equipment (CAE) that complied with the requirements for AS/ACIF S003:2005; and
- (ii) new CAE that uses analogue and PCM-based TDM technologies.

The principal differences between this edition of AS/CA S003.2 and the 2005 edition of AS/ACIF S003 are the following:

- (a) The transmission requirements that are specific to analogue and PCM-based TDM technologies, that were previously found in AS/ACIF S003:2005, have been included in AS/CA S003.2.
- (b) A preferred loss plan (relative levels +3 dBr / -9 dBr) and an alternate loss plan (relative levels 0 dBr / -6 dBr) have been included to assist compliance when analogue or PCM-based TDM technology CE complying with an earlier Standard is being modified or upgraded but does not introduce packet or cell based technology.
- (c) Figures for 'Attenuation/Frequency distortion', 'Variation of gain with level' and 'Signal to total distortion limits' masks have been relaxed from the ES 201 168 figures to allow for consistency of the requirement with previous editions of the Standard.

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1 INTERPRETATIVE GUIDELINES

1.1 Categories of requirements

This Standard contains mandatory requirements as well as provisions that are recommendatory only. Mandatory requirements are designated by the words '**shall**' or '**shall not**'. All other provisions are voluntary.

1.2 Compliance statements

Compliance statements, in italics, suggest methodologies for demonstrating CE's compliance with the requirements.

1.3 Definitions, expressions and terms

If there is any conflict between the definitions used in this Standard and the definitions used in the *Telecommunications Act 1997*, the definitions in the Act take precedence.

1.4 Notes

Text denoted as 'Note' is for guidance in interpretation and is shown in smaller size type.

1.5 References

- (a) Applicable editions (or versions) of other documents referred to in this Standard are specified in Section 3: REFERENCES.
- (b) If a document refers to another document, the other document is a sub-referenced document.
- (c) Where the edition (or version) of the sub-referenced document is uniquely identified in the reference document, then that edition (or version) applies.
- (d) Where the edition (or version) of the sub-referenced document is not uniquely identified in the reference document, then the applicable edition (or version) is that which is current at the date the reference document is legislated under the applicable regulatory framework, or for a non-legislated document, the date upon which the document is published by the relevant standards organisation.
- (e) A number in square brackets '[]' refers to a document listed in Section 3: REFERENCES.

1.6 Units and symbols

In this Standard the International System (SI) of units and symbols is used in accordance with Australian Standard AS ISO 1000 [1].

1.7 Parts of Standards

Customer Equipment (CE) scoped by this Standard is to comply with requirements in Part 1 and the applicable technology-specific Part of this Standard.