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AUSTRALIAN STANDARD

AS/ACIF S043.2:2006

Requirements for Customer Equipment for
connection to a metallic local loop interface of a
Telecommunications Network—
Part 2: Broadband

**Adopted for
regulatory purposes**



Australian Standard — *Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network— Part 2: Broadband*

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FOREWORD

General

This Standard was originally prepared by the ACIF Working Committee CECRP/WC10 on *Addressable Devices*. The Standard was subsequently revised by the ACIF Working Committees CECRP/WC13 on *DSL Customer Equipment* and CECRP/WC21 on *Broadband Revision*. It is one of a series of Telecommunication Standards developed under the Memorandum of Understanding between the Australian Communications Authority 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 AS/ACIF S043.2:2005 Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network— Part 2: Broadband.

This Standard is the result of a consensus among representatives on the ACIF Working Committee to produce it as an Australian Standard.

The requirements in this Standard are consistent with the aims of s376 of the *Telecommunications Act 1997*. Specifically the aim is to protect the integrity of a telecommunications network or facility.

It should be noted that some Customer Equipment (CE) may require demonstration of compliance with requirements in other Standards or other Parts of this Standard.

AS/ACIF S043 consists of the following parts under the general title Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network:

- Part 1: Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network— Part 1: General
- Part 2: Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network— Part 2: Broadband
- Part 3: Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network— Part 3: DC, low frequency AC and voiceband

This Standard should be read in conjunction with AS/ACIF S043.1 [3] and the supporting arrangements document ACIF G563 [4].

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

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

Regulatory notice

This document has been made by ACMA as Telecommunications Technical Standard AS/ACIF S043.2-2006 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:

Australian Communications and Media Authority
PO Box 13112
Law Courts PO
Melbourne VIC 8010
Australia

Telephone: +61 3 9963 6800
Facsimile: +61 3 9963 6899
TTY: +61 3 9963 6948

Introduction

This introduction for the DR AS/ACIF S043.2:2006 *Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network— Part 2: Broadband* Standard is not an authoritative section of this draft Standard and is only provided as guidance for the user of the draft Standard to outline its objectives, the factors that have been taken into account in its development and to list the principle differences between the new and the previous edition.

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 is designed or intended for connection to a Telecommunications Network via a metallic local loop interface and has a broadband capability, in order to meet the regulatory arrangements for such equipment in Australia.

The objective of this revision is to update AS/ACIF S043.2 to introduce Equipment Classes for DSL modems that enable broadband services with extended upstream bandwidth, based on Annex M to ITU-T Recommendations G.992.3 [8] and G.992.5 [9].

Specific factors taken into account were:

- (i) the growing end user demand for equipment and broadband services to support applications requiring increased upstream bandwidth relative to existing ADSL, ADSL2 and ADSL2+ services.
- (ii) the support for the introduction of such equipment and services by suppliers of customer equipment and service providers.

The principle differences between this draft edition of AS/ACIF S043.2 and the previous edition are:

- (i) the addition of Equipment Classes 6j to 6n to enable the use of ADSL2 or ADSL2+ with extended upstream bandwidth (based on Annex M to ITU-T Recommendations G.992.3 [8] and G.992.5 [9]).
- (ii) the deletion of Appendices used for Equipment Classes that had been removed in the previous revision of AS/ACIF S043.2.
- (iii) the subsequent editorial relabelling of the remaining Appendices.

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