AS/NZS 4802.3:1999
ISO/IEC 8802-3:1996

AS/NZS 4802.3

Australian/New Zealand Standard™

**Information processing systems—
Local area networks**

**Part 3: Carrier sense multiple access
with collision detection access method
and physical layer specifications**

[ISO/IEC title: Information technology—Telecommunications and information
exchange between systems—Local and metropolitan area networks—Specific
requirements, Part 3: Carrier sense multiple access with collision detection
(CSMA/CD) access method and physical layer specifications]

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT/1, Information Systems—Interconnection. It was approved on behalf of the Council of Standards Australia on 14 July 1999 and on behalf of the Council of Standards New Zealand on 28 June 1999. It was published on 5 August 1999.

The following interests are represented on Committee IT/1:

Australian Association of Chief Information Officers
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Australian Bankers Association
Australian Bureau of Statistics
Australian Chamber of Commerce and Industry
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT/1, Information Systems—Interconnection, to supersede AS/NZS 4802.3:1994. This Standard is identical with and has been reproduced from ISO/IEC 8802-3:1996, *Information technology—Telecommunications and information exchange between systems—Local and metropolitan area networks—Specific requirements,* Part 3: *Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications.*

The objective of this Standard is to provide designers of local area networks with a specification employing CSMA/CD as the access method which encompasses several media types and techniques for signal rates from 1 Mb/s to 20 Mb/s, and provides the necessary specification and related parameter values for 10 Mb/s and1 Mb/s baseband implementations. Specifications for 10BASE-T, 10BASE-FP, 10BASE-FB and layer management are also included.

In January 1997, the IEC commenced numbering its Standards from 60000 by adding 60000 to the number of each existing Standard. This co-ordinates IEC numbering with ISO numbering. During the transition period an IEC Standard might be identified by its new number or its old number (e.g. IEC 60050 or IEC 50).

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A normative annex is an integral part of a Standard, whereas an informative annex is only for information and guidance.

As this Standard is reproduced from an International Standard, the following applies:

(a)   Its number does not appear on each page of text and its identity is shown only on the cover and title page.

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Reference to International Standard		*Australian or Australian/New Zealand Standard*
IEC		AS/NZS
60060	High-voltage test techniques	—
60068	Basic environmental testing procedures	—
60096	Radio-frequency cables	—
60096-1	Part 1: General requirements and measuring methods and Amendment No. 2 (1993)	—
60169	Radio-frequency connectors	—
60169-8	Part 8: Radio-frequency coaxial connectors with inner diameter of outer conductor 6.5 mm (0.256 in) with bayonet lock—Characteristic impedance 50 ohms (Type BNC)	—
60169-16	Part 16: Radio-frequency coaxial connectors with inner diameter of outer conductor 7 mm (0.276 in) with screw coupling—Characteristic impedance 50 ohms (75 ohms) (Type N)	—

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IEC		AS/NZS	
60380	Safety of electrically energized office machines	—	
60435	Safety of data processing equipment	—	
60793	Optical fibres	—	
60793-1	Part 1: Generic specification	—	
60793-2	Part 2: Product specifications	—	
60794	Optical fibre cables	—	
60794-1	Part 1: Generic specification	—	
60794-2	Part 2: Product specifications	—	
60807	Rectangular connectors for frequencies below 3 MHz	—	
60807-2	Part 2: Detail specification for a range of connectors with assessed quality, with trapezoidal shaped metal shells and round contacts—Fixed solder contact types	—	
60825	Safety of laser products	2211	Laser safety
60825-1	Part 1: Equipment classification, requirements and user's guide	2211.1	Part 1: Equipment classification, requirements and user's guide
60874	Connectors for optical fibres and cables	—	
60874-1	Part 1: Generic specification	—	
60874-2	Part 2: Sectional specification for fibre optic connector type F-SMA	—	
60874-10	Part 10: Sectional specification, Fibre optic connector type BFOC/2,5	—	
60950	Safety of Information Technology Equipment, Including Electrical Business Equipment	3260	Approval and test specification—Safety of information technology equipment including electrical business equipment (Incorporating Amendments 1, 2 and 3)
IEEE			
802	IEEE Standards for Local and Metropolitan Area Networks: Overview and Architecture (ANSI)	—	
802-1F	Part 1F: Common Definitions and Procedures for IEEE 802 Management Information (ANSI)	—	
ISO		**AS**	
2382	Data processing—Vocabulary	1189	Data processing—Vocabulary
2382-9	Part 9: Data communication	1189.9	Part 9: Data communication
ISO/IEC		**AS/NZS**	
7498	Information technology—Open Systems Interconnection—Basic Reference Model	2777	Information processing systems—Open Systems Interconnection—Basic reference model
7498-1	Part 1: The Basic Model	2777.1	Part 1: The basic model