

Australian/New Zealand Standard[®]

**Information technology—Software
packages—Quality requirements
and testing**

AS/NZS 4366:1996

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT/15, Software Engineering. It was approved on behalf of the Council of Standards Australia on 19 December 1995 and on behalf of the Council of Standards New Zealand on 19 February 1996. It was published on 5 March 1996.

The following interests are represented on Committee IT/15:

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Australian Computer Society
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Australian Information Industry Association
Australian Software Metrics Association
CASE Special Interest Group
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and testing**

PUBLISHED JOINTLY BY:

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Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Standards House,
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Wellington 6001 New Zealand

ISBN 0 7337 0294 5

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT/15 on Software Engineering. It is identical with and reproduced from ISO/IEC 12119:1994 *Information technology— Software packages—Quality requirements and testing*.

The objective of this Standard is to provide suppliers, certification bodies, testing laboratories, accreditation bodies, auditors and buyers with a concise guide to—

- (a) quality requirements for software packages; and
- (b) instructions on how to test a software package against these requirements (in particular, instructions for independent testing by a third party).

It deals with software packages as offered and delivered. It does not deal with the software production process.

Statements expressed in mandatory terms in notes to text, tables and figures are deemed to be requirements of this Standard.

The International Standard number does not appear on each page of text and its identity is shown only on the cover. In the source text, 'this International Standard' should read 'this Australian/New Zealand Standard', and a full point substitutes a comma when referring to a decimal marker.

*Reference to International Standard
or other Publication*

Australian/New Zealand

ISO/IEC	SAA	
Guide 2 General terms and their definitions concerning standardization and related activities	HB18.2	Guidelines for third-party certification and accreditation Guide 2: General terms and their definitions concerning standardization and related activities
Guide 16 Code of principles on third-party certification systems and related standards	HB18.16	Guide 16: Code of principles on third-party certification systems and related Standards
Guide 22 Information on manufacturer's declaration of conformity with standards or other technical specifications	HB18.22	Guide 22: Information on manufacturers declaration of conformity with standards
Guide 23 Methods of indicating conformity with standards for third-party certification systems	HB18.23	Guide 23: Methods of indicating conformity with Standards for third party certification systems
Guide 25 General requirements for the competence of calibration and testing laboratories	HB18.25	Guide 25: General requirements for the competence of calibration and testing laboratories
Guide 28 General rules for a model third-party certification system for products	H18.28	Guide 28: General rules for a model third-party certification system for products
Guide 40 General requirements for the acceptance of certification bodies	HB18.40	Guide 40: General requirements for the acceptance of certification bodies

ISO/IEC		SAA	
Guide 44	General rules for ISO or IEC international third-party certification schemes for products	HB18.44	Guide 44: General rules for ISO or IEC international third-party certification schemes for products
Guide 58	Calibration and testing laboratory accreditation systems—General requirements for operation and recognition	HB18.58	Guide 58: Calibration and testing laboratory accreditation systems—General requirements for operation and recognition
2382	Information technology — Vocabulary	AS 1189	Data processing— Vocabulary
2382-1	Part 1: Fundamental terms	1189.1	Part 1: Fundamental terms
2382-7	Part 7: Computer programming	1189.7	Part 7: Computer programming
2382-20	Part 20: System development	1189.20	Part 20: System development
9126	Information technology — Software product evaluation — Quality characteristics and guidelines for their use	—	
ISO			
2382	Data processing — Vocabulary	1189	Data processing— Vocabulary
2382-2	Part 2: Arithmetic and logic operations	1189.2	Part 2: Arithmetic and logic operations
2382-8	Information processing systems— Vocabulary Part 8: Control, integrity and security	1189.8	Part 8: Control, integrity and security
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2382-14	Part 14: Reliability, maintenance and availability	1189.14	Part 14: Reliability, maintenance and availability
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6385	Ergonomic principles in the design of work systems	—	
6592	Information processing — Guidelines for the documents of computer-based application systems	3876	Information processing — Guidelines for the documentation of computer-based application systems
8402	Quality management and quality assurance— Vocabulary	AS/NZS —	
9127	Information processing systems — User documentation and cover information for consumer software packages	—	
9241-1	Ergonomic requirements for office work with visual display terminals (VDTs) Part 1: General introduction	—	
9241-2	Part 2: Guidance on task requirements	—	

ISO		AS/NZS	
9241-10	Part 10: Dialogue principles	—	
9241-11	Part 11: Guidance on specifying and measuring useability	—	
9241-12	Part 12: Presentation of information	—	
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9241-15	Part 15: Command dialogues	—	
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ANSI/IEEE		AS	
610.12	Glossary of Software Engineering Terminology	3611	Glossary of software engineering terminology

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First published as AS/NZS 4366:1996.

AUSTRALIAN/NEW ZEALAND STANDARD

Information technology—Software packages— Quality requirements and testing

1 Scope

This International Standard is applicable to software packages. Examples are text processors, spreadsheets, data base programs, graphics packages, programs for technical or scientific functions, and utility programs.

It establishes

- requirements for software packages (quality requirements);
- instructions on how to test a software package against these requirements (instructions for testing, in particular for third party testing).

It deals only with software packages as offered and delivered. It does not deal with their production process (including activities and intermediate products, e.g. specifications). The quality system of a supplier is outside the scope of this International Standard.

NOTE— Some software needs additional requirements, e.g. safety-critical software.

The intended users of this International Standard include

- a) suppliers when
 - 1) specifying requirements for a software package;
 - 2) designing a form to describe products;
 - 3) assessing their own products;
 - 4) issuing declarations of conformity [ISO/IEC Guide 22];
 - 5) applying for certificates or marks of conformity [ISO/IEC Guide 23];

b) certification bodies which may wish to establish a third-party certification scheme (international, regional or national) [ISO/IEC Guides 16, 28 and 44];

c) testing laboratories which will have to follow the instructions for testing when testing for a certificate or a mark of conformity [ISO/IEC Guide 25];

d) accreditation bodies for accrediting certification bodies and testing laboratories [ISO/IEC Guides 40 and 58];

e) auditors of testing laboratories when assessing their competence [ISO/IEC Guide 58];

f) buyers who may

1) compare their requirements with those described here;

2) compare the requirements for the intended work task with the information in product descriptions of existing products;

3) look for certified products;

4) check otherwise if the requirements are met;

g) users who may profit from better products.

2 Definitions

For the purposes of this International Standard, the following definitions apply. Definitions from other standards used in this International Standard are reproduced in annex A for convenient reference.