

Australian/New Zealand Standard™

**Information technology—
Software product evaluation**

Part 1: General overview

AS/NZS 14598.1:2000

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT-015, Software Engineering. It was approved on behalf of the Council of Standards Australia on 5 November 2000 and on behalf of the Council of Standards New Zealand on 27 October 2000. It was published on 15 December 2000.

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Part 1: General overview

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-015, Software Engineering. This Standard is identical with and has been reproduced from ISO/IEC 14598-1:1999, *Information technology—Software product evaluation, Part 1: General overview*.

The objective of this Standard is to give developers, acquirers and evaluators of software product a framework for evaluating the quality of software product and give the requirements for methods of software product measurement and evaluation.

This Standard is Part 1 of AS/NZS 14598, *Information technology—Software product evaluation*, which is published in Parts as follows:

Part 1: General overview (this Standard)

Part 2: Planning and management

Part 3: Process for developers

Part 4: Process for acquirers

Part 5: Process for evaluators

Part 6: Documentation of evaluation modules

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- (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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References to International Standards should be replaced by references to equivalent Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian or Australian/New Zealand Standard</i>	
ISO		AS/NZS	
8402	Quality management and quality assurance—Vocabulary	ISO 8402	Quality management and quality assurance—Vocabulary
ISO/IEC			
2382	Data processing—Vocabulary	—	
2382-1	Part 1: Fundamental terms	—	
9126	Information technology—Software product evaluation—Quality characteristics and guidelines for their use	4216	Information technology—Software product evaluation—Quality characteristics and guidelines for their use
12207	Information technology—Software life-cycle processes	ISO/IEC 12207	Information technology—Software life cycle processes

1	Scope	1
2	Conformance	1
3	Normative references	1
4	Terms and definitions	2
5	Overview of ISO/IEC 14598 and ISO/IEC 9126	6
5.1	Structure of ISO/IEC 14598 and ISO/IEC 9126	6
5.2	Evaluation process	6
5.3	Support for evaluation	6
5.4	Software quality characteristics and metrics	7
6	Evaluation process	8
7	Establish evaluation requirements	9
7.1	Establish the purpose of evaluation.....	9
7.2	Identify types of product(s) to be evaluated	11
7.3	Specify quality model.....	13
8	Specify the evaluation	14
8.1	Select metrics	14
8.2	Establish rating levels for metrics	15
8.3	Establish criteria for assessment.....	16
9	Design the evaluation	16
9.1	Produce evaluation plan	16
10	Execute the evaluation	16
10.1	Take measures.....	16
10.2	Compare with criteria.....	17
10.3	Assess results	17
11	Supporting processes	17
	Bibliography	18

NOTES

Information technology — Software product evaluation — Part 1: General overview

1 Scope

This part of ISO/IEC 14598 introduces the other parts. It provides an overview of the other parts and explains the relationship between ISO/IEC 14598 and the quality model in ISO/IEC 9126. This part of ISO/IEC 14598 defines the technical terms used in the other parts, contains general requirements for specification and evaluation of software quality and clarifies the general concepts. Additionally, it provides a framework for evaluating the quality of all types of software product and states the requirements for methods of software product measurement and evaluation.

ISO/IEC 14598 is intended for use by developers, acquirers and independent evaluators, particularly those responsible for software product evaluation. The evaluation results produced from the application of ISO/IEC 14598 can be used by managers and developers/maintainers to measure compliance to requirements and to make improvements where necessary. The evaluation results can also be used by analysts to establish the relationships between the internal and external metrics. Process improvement personnel can use the evaluation results to determine how processes can be improved through study and examination of the project's product quality information.

NOTE Much of the guidance in ISO/IEC 14598 is not specific to software, but is also applicable to other complex products.

2 Conformance

Specification and evaluation of software conforms to this part of ISO/IEC 14598 if it uses the process in clause 6 and a quality model as required in 8.3. Conformance to ISO/IEC 14598 as a whole shall mean conformance to all applicable published parts of ISO/IEC 14598.

3 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 14598. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 14598 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO/IEC 2382-1:1993, *Information technology — Vocabulary — Part 1: Fundamental terms*.

ISO 8402:1994, *Quality management and quality assurance — Vocabulary*.

ISO/IEC 9126-1:—1), *Information technology — Software quality characteristics and metrics — Part 1: Quality characteristics and sub-characteristics*.

ISO/IEC 12207:1995, *Information technology — Software life cycle processes*.

1 To be published. Until this part is published ISO/IEC 9126:1991 should be used.