

Australian/New Zealand Standard™

**Information technology—
Software product evaluation**

Part 3: Process for developers



S t a n d a r d s Australia



STANDARDS
NEW ZEALAND
Pūnaha Aotearoa

AS/NZS 14598.3:2000

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Part 3: Process for developers

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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 14598-3:1999, *Information technology—Software product evaluation, Part 3: Process for developers*.

The objective of this Standard is to give developers of software product guidelines for clarifying quality requirements and for implementing and analysing software quality measures during all phases of the development life cycle.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

This Standard is Part 3 of AS/NZS 14598, *Information technology—Software product evaluation*, which is published in parts as follows:

- Part 1: General overview
- Part 2: Planning and management
- Part 3: Process for developers (this Standard)
- Part 4: Process for acquirers
- Part 5: Process for evaluators
- Part 6: Documentation of evaluation modules

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.
- (b) In the source text ‘this part of ISO/IEC 14598’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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/IEC		AS/NZS	
9126	Information technology—Software product quality	4216	Information technology—Software product evaluation—Quality characteristics and guidelines for their use
9126-1	Part 1: Quality Model	—	
12207	Information technology—Software life cycle processes	ISO/IEC 12207	Information technology—Software life cycle processes
14598	Information technology—Software product evaluation	14598	Information technology—Software product evaluation
14598-1	Part 1: General overview	14598.1	Part 1: General overview
14598-2	Part 2: Planning and management	14598.2	Part 2: Planning and management
14598	Software engineering—Product evaluation		
14598-6	Part 6: Documentation of evaluation modules	—	

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Software engineering - Product evaluation - Part 3: Process for developers

1 Scope

This part of ISO/IEC 14598 provides requirements and recommendations for the practical implementation of software product evaluation when the evaluation is conducted in parallel with the development and carried out by the developer. In particular, it may be used to apply the concepts described in ISO/IEC 9126-1, 2, 3 and ISO/IEC 14598-1, 2, 6.

The process described in this part of ISO/IEC 14598 defines the activities needed to analyse evaluation requirements, to specify, design, and perform evaluation actions and to conclude the evaluation of any kind of software product.

The evaluation process is designed to be used concurrently with the development. The evaluation process needs to be synchronised with the software development process and the entities be evaluated as they are delivered.

This part of ISO/IEC 14598 may be used by

- a project manager to clarify quality requirements, to monitor and control the quality of the software during development and to make decisions to assure that the required quality is built in,
- a software designer to identify specific features that should be built into the software or changed in order to meet the quality requirements,
- a quality assurance / control / audit responsible to evaluate whether the quality requirements are met,
- a maintainer to make decisions for the implementation of changes and redesign/reengineering,
- a software acquirer as part of an agreement with a developer when acquiring software (e.g. in the case of outsourcing software development) when an independent evaluation is not required. Acquirers may be personnel in a purchasing role, developers outsourcing a part of the software product, or end-users. The role of the acquirer depends on the agreement between the acquirer and the developer. ISO/IEC 14598-4 describes evaluation from the acquirers point of view.

This part of ISO/IEC 14598 is intended for application at the project level. In order to obtain full benefit from this standard the organization should be involved. This aspect is covered in ISO/IEC 14598-2.

This part of ISO/IEC 14598 does not prescribe specific indicators or metrics nor does it prescribe any particular development method.

2 Conformance

In order to conform to this part of ISO/IEC 14598, an organization shall review all requirements and recommendations in clause 6, to identify which are applicable, and state which requirements have not been implemented.