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AS/NZS ISO/IEC/IEEE 29119.3:2015

Australian/New Zealand Standard™

Software and systems engineering—Software testing

Part 3: Test documentation

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT-015, Software and Systems Engineering. It was approved on behalf of the Council of Standards Australia on 9 June 2015 and on behalf of the Council of Standards New Zealand on 11 June 2015.
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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-015, Software and Systems Engineering.

The objective of this Standard is to specify software test documentation templates that can be used by any organization, project or smaller testing activity. It describes the test documentation that is an output of the processes specified in ISO/IEC/IEEE 29119-2 Test documentation.

This Standard is identical with, and has been reproduced from ISO/IEC/IEEE 29119-3:2013, *Software and systems engineering—Software testing*, Part 3: *Test documentation*.

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

(a) In the source text 'this part of ISO/IEC/IEEE 29119' should read 'this Australian/New Zealand standard'.

(b) A full point substitutes for a comma when referring to a decimal marker.

None of the normative references in the source document have been adopted as Australian or Australian/New Zealand Standards.

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

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INTRODUCTION

The purpose of the ISO/IEC/IEEE 29119 series of software testing standards is to define an internationally-agreed set of standards for software testing that can be used by any organization when performing any form of software testing.

This part of ISO/IEC/IEEE 29119, Test Documentation, includes templates and examples of test documentation that are produced during the test process. The templates are arranged within clauses reflecting the overall test process description structure in ISO/IEC/IEEE 29119-2 Test Processes, i.e. by the test process in which they are being produced. Annex A contains outlines of the contents of each document. Annex B contains a list of all the information items identified in Clauses 5, 6 and 7 of this part of ISO/IEC/IEEE 29119 with the corresponding level of conformance (shall/should/may) from ISO/IEC/IEEE 29119-2 Test Processes. Annex C contains an overview of the examples. Annexes D to S contain examples of the application of the templates. Annex T provides mappings to existing standards. The Bibliography for this part of ISO/IEC/IEEE 29119 is at the end of the document.

The concepts and vocabulary relating to the software testing documentation are defined in ISO/IEC/IEEE 29119-1 Concepts and Definitions.

The actual test process model is defined in ISO/IEC/IEEE 29119-2 Test Processes. It comprises test process descriptions that define the software testing processes at the organizational level, test management level and dynamic test level. Supporting informative diagrams describing the processes are also provided.

Software test design techniques that can be used during test design are defined in ISO/IEC/IEEE 29119-4 Test Techniques.

This series of international standards aims to provide stakeholders with the ability to manage and perform software testing in any organization.

NOTES

AUSTRALIAN/NEW ZEALAND STANDARD

Software and systems engineering—Software testing

Part 3:
Test documentation

1 Scope

This part of ISO/IEC/IEEE 29119 specifies software test documentation templates that can be used by any organization, project or smaller testing activity. It describes the test documentation that is an output of the processes specified in ISO/IEC/IEEE 29119-2 Test Processes. An overview of the documents is provided in Figure 1 below. A slightly larger version of this figure is provided in Annex A.

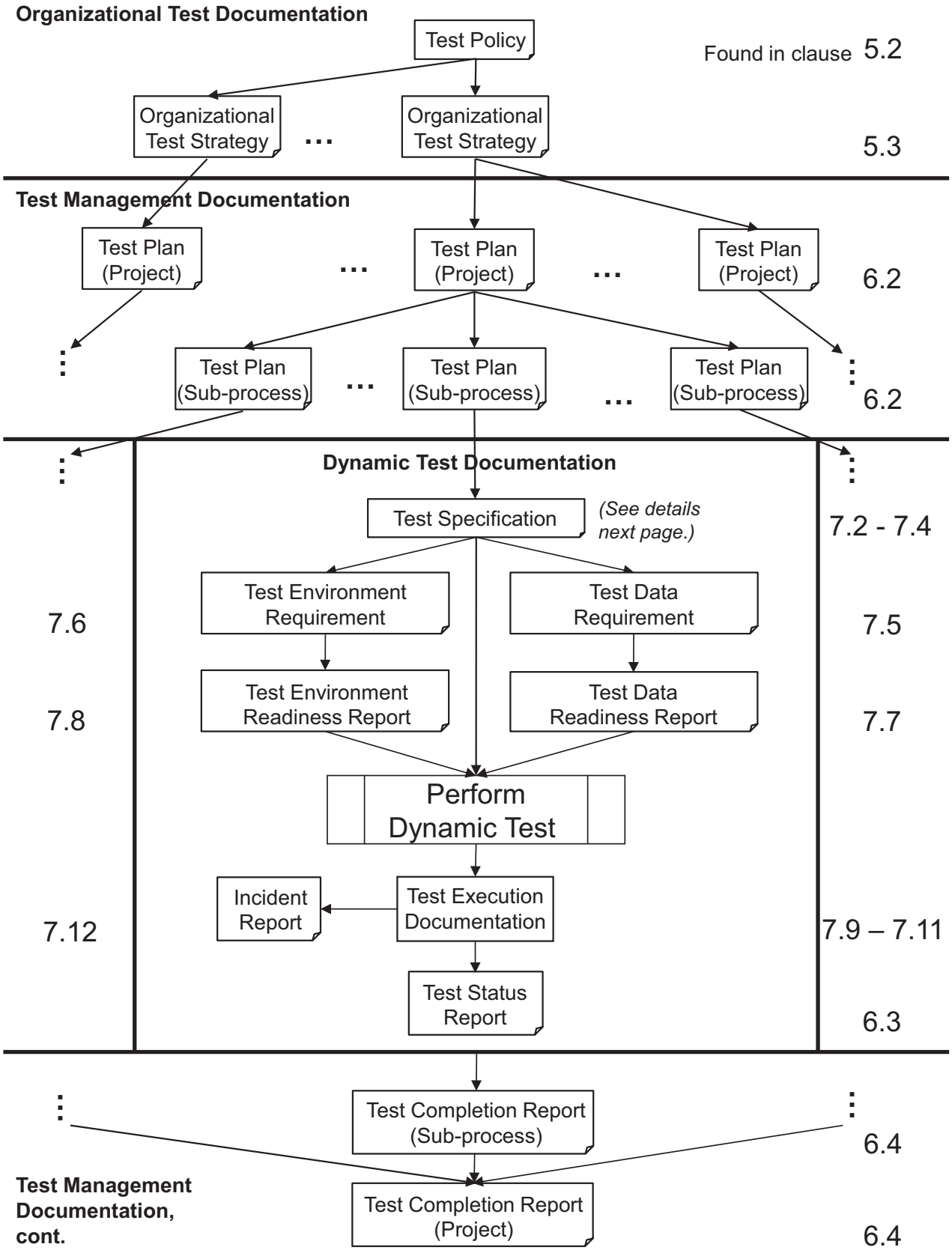

Figure 1 — The hierarchy of test documentation

This part of ISO/IEC/IEEE 29119 is applicable to testing in all software development lifecycle models.

This part of ISO/IEC/IEEE 29119 is intended for, but not limited to, testers, test managers, developers, and project managers, particularly those responsible for governing, managing, and implementing software testing.

The documents described in this part of ISO/IEC/IEEE 29119 may be issued in several versions over time. However, the handling of multiple versions of documents is out of scope of this part of ISO/IEC/IEEE 29119, because this is a configuration management issue.

2 Conformance

2.1 Intended usage

The requirements in this part of ISO/IEC/IEEE 29119 are contained in Clauses 5, 6 and 7. This part of ISO/IEC/IEEE 29119 provides requirements for a number of test documents suitable for use during the complete software lifecycle. It is recognized that particular projects or organizations may not need to use all of the documents defined by this part of ISO/IEC/IEEE 29119. Therefore, implementation of this part of ISO/IEC/IEEE 29119 typically involves selecting a set of documents suitable for the organization or project. There are two ways that an organization can claim to conform to the provisions of this part of ISO/IEC/IEEE 29119; full or tailored conformance. Conformance may be claimed for organizations, projects, multi-supplier projects and services, as identified in the claim of conformance.

The information items identified in Clauses 5, 6, and 7 of this part of ISO/IEC/IEEE 29119 correspond to the outputs of the ISO/IEC/IEEE 29119-2 Test Processes. Annex B is normative and provides an overview of the normative requirements for the clauses in ISO/IEC/IEEE 29119-2 where the creation of the information items defined in Clauses 5, 6, and 7 of this part of ISO/IEC/IEEE 29119 is described.

In this part of ISO/IEC/IEEE 29119, for simplicity of reference, each document is described as if it were published as a separate hardcopy document. Document titles and contents provided in this part of ISO/IEC/IEEE 29119 may be modified (added to, combined or re-titled) and use of the nomenclature of the specific records in Clauses 5, 6 and 7 is not required to claim conformance. Documents shall be considered as conforming if they are unpublished but available in electronic form, divided into separate documents or volumes, or combined with other documents into one document.

2.2 Types of conformance

The following types of conformance shall be asserted. The selected type shall be identified in the claim of conformance documentation.

2.2.1 Full Conformance

The minimum set of required information items is all of those information items specified in Clauses 5, 6 and 7 of this part of ISO/IEC/IEEE 29119.

NOTE Full conformance could be claimed for selected documents even if full conformance with the entire standard is not claimed.

2.2.2 Tailored Conformance

The content of the test documents defined in Clauses 5, 6 and 7 of this part of ISO/IEC/IEEE 29119 may be tailored based on the tailored conformance to ISO/IEC/IEEE 29119-2 Test Processes and/or based on the specific needs of an organization or project. Where tailoring occurs, justification shall be provided whenever an information item defined in Clauses 5, 6 and 7 of this part of ISO/IEC/IEEE 29119 is not prepared. All tailoring decisions shall be recorded with their rationale, including the consideration of any applicable risks. Tailoring decisions shall be agreed by the relevant stakeholders.

Tailored conformance can be achieved by:

a) The minimum set of required test documentation is determined by the tailoring of the processes and activities in accordance with Clause 2 of ISO/IEC/IEEE 29119-2 Test Processes; and/or