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**Software and systems
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**Part 5:
Keyword-driven testing**

*Ingénierie du logiciel et des systèmes — Essais du logiciel —
Partie 5: Essais axés sur des mots-clés*

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Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Conformance	5
4.1 Intended usage.....	5
4.2 Full conformance.....	5
4.3 Tailored conformance.....	5
5 Introduction to keyword-driven testing	5
5.1 Overview.....	5
5.2 Layers in keyword-driven testing.....	8
5.2.1 Overview.....	8
5.2.2 Domain layer.....	9
5.2.3 Test interface layer.....	10
5.2.4 Multiple layers.....	10
5.3 Types of keywords.....	11
5.3.1 Simple keywords.....	11
5.3.2 Composite keywords.....	12
5.3.3 Navigation/interaction (input) and verification (output).....	15
5.3.4 Keywords that determine test results.....	15
5.4 Keywords and data.....	16
6 Application of keyword-driven testing	17
6.1 Overview.....	17
6.2 Identifying and documenting keywords.....	17
6.3 Composing test cases.....	18
6.4 Keywords and data-driven testing.....	19
6.5 Modularity and refactoring.....	19
6.6 Keyword-driven testing in the test design and implementation process.....	20
6.6.1 Overview.....	20
6.6.2 Create test model (TD1).....	21
6.6.3 Identify test coverage items (TD2).....	21
6.6.4 Derive test cases (TD3).....	21
6.6.5 Create test procedures (TD4).....	22
6.7 Converting non-keyword-driven test cases into keyword-driven test cases.....	22
7 Keyword-driven testing frameworks	23
7.1 Overview.....	23
7.2 Components of a keyword-driven testing framework.....	23
7.2.1 Overview.....	23
7.2.2 Keyword-driven editor.....	25
7.2.3 Decomposer.....	25
7.2.4 Data sequencer.....	26
7.2.5 Manual test assistant.....	26
7.2.6 Tool bridge.....	26
7.2.7 Test execution environment and test execution engine.....	26
7.2.8 Keyword library.....	26
7.2.9 Data.....	27
7.2.10 Script repository.....	27
7.2.11 Documentation and organizational processes.....	27
7.3 Basic attributes of the keyword-driven testing framework.....	27
7.3.1 General information on basic attributes.....	27
7.3.2 Documentation.....	27

This is a preview of ISO/IEC/IEEE 29119-5:2024. [Click here to purchase the full version from the ANSI store.](#)

7.3.5	Manual test assistant (tool)	29
7.3.6	Tool bridge	29
7.3.7	Test execution engine	29
7.3.8	Keyword library	30
7.3.9	Script repository	30
7.4	Advanced attributes of frameworks	30
7.4.1	General information on advanced attributes	30
7.4.2	Documentation	30
7.4.3	Keyword-driven editor (tool)	31
7.4.4	Decomposer and data sequencer	31
7.4.5	Manual test assistant	31
7.4.6	Tool bridge	31
7.4.7	Test execution environment and test execution engine	31
7.4.8	Keyword library	32
7.4.9	Test data support	33
7.4.10	Script repository	33
8	Data interchange	33
	Annex A (informative) Typical keyword conventions	34
	Annex B (informative) Benefits and issues of keyword-driven testing	35
	Annex C (informative) Getting started with keyword-driven testing	37
	Annex D (informative) Roles and tasks	39
	Annex E (informative) Basic keywords	41
	Annex F (informative) Examples of the application of keywords	47
	Annex G (informative) Example data format for keywords	51
	Bibliography	55
	IEEE notices and abstract	56

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This second edition cancels and replaces the first edition (ISO/IEC/IEEE 29119-5:2016), which has been technically revised.

The main changes are as follows:

- updated reference to processes (test design and implementation process) according to ISO/IEC/IEEE 29119-2:2021;
- updated reference to documents (test procedure) according to ISO/IEC/IEEE 29119-3:2021;
- included definitions for terms used in this document, based on ISO/IEC/IEEE 29119-1:2022.

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The purpose of the ISO/IEC/IEEE 29119 series 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 and using any life cycle.

This document defines a unified approach for describing test cases in a modular way, which assists with the creation of items like keyword-driven test specifications and test automation frameworks. The term "keyword" refers to the elements which are, once defined, used to compose test cases, such as with building blocks. This document explains the main concepts and application of keyword-driven testing. It also defines attributes of frameworks designed to support keyword-driven testing.

The concepts relating to software testing defined in ISO/IEC/IEEE 29119-1 are also applicable to this document.

The test process model on which the keyword-driven testing framework is based is defined in ISO/IEC/IEEE 29119-2. It comprises test process descriptions that define the software testing processes at the organizational level, test management level and dynamic test level. Supporting diagrams describing the processes are also provided in ISO/IEC/IEEE 29119-2. However, this document describes a specific implementation of the test design and implementation process of ISO/IEC/IEEE 29119-2 for application in keyword-driven testing, in particular in TD3 ([6.6.4](#)) and TD4 ([6.6.5](#)).

The templates and examples of test documentation as defined in ISO/IEC/IEEE 29119-3 are also applicable to this document.

Software test design techniques that can be used during test design are defined in ISO/IEC/IEEE 29119-4. The application of ISO/IEC/IEEE 29119-4 is assumed when designing test cases that are then described by keywords according to this document.