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Information technology — Security techniques — Test requirements for cryptographic modules

Technologies de l'information — Techniques de sécurité — Exigences d'essai pour modules cryptographiques



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Contents

| | Page |
|---|----------|
| Foreword | v |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 Symbols and abbreviated terms | 1 |
| 5 Document organization | 1 |
| 5.1 General | 1 |
| 5.2 Assertions and security requirements | 2 |
| 6 Security requirements | 2 |
| 6.1 General | 2 |
| 6.2 Cryptographic module specification | 3 |
| 6.2.1 Cryptographic module specification general requirements | 3 |
| 6.2.2 Types of cryptographic modules | 3 |
| 6.2.3 Cryptographic boundary | 5 |
| 6.2.4 Modes of operations | 13 |
| 6.3 Cryptographic module interfaces | 17 |
| 6.3.1 Cryptographic module interfaces general requirements | 17 |
| 6.3.2 Types of interfaces | 20 |
| 6.3.3 Definition of interfaces | 20 |
| 6.3.4 Trusted channel | 30 |
| 6.4 Roles, services, and authentication | 32 |
| 6.4.1 Roles, services, and authentication general requirements | 32 |
| 6.4.2 Roles | 33 |
| 6.4.3 Services | 34 |
| 6.4.4 Authentication | 42 |
| 6.5 Software/Firmware security | 49 |
| 6.6 Operational environment | 57 |
| 6.6.1 Operational environment general requirements | 57 |
| 6.6.2 Operating system requirements for limited or non-modifiable operational environments | 57 |
| 6.6.3 Operating system requirements for modifiable operational environments | 58 |
| 6.7 Physical security | 68 |
| 6.7.1 Physical security embodiments | 68 |
| 6.7.2 Physical security general requirements | 69 |
| 6.7.3 Physical security requirements for each physical security embodiment | 75 |
| 6.7.4 Environmental failure protection/testing | 86 |
| 6.8 Non-invasive security | 89 |
| 6.9 Sensitive security parameter management | 91 |
| 6.9.1 Sensitive security parameter management general requirements | 91 |
| 6.9.2 Random bit generators | 92 |
| 6.9.3 Sensitive security parameter generation | 93 |
| 6.9.4 Sensitive security parameter establishment | 94 |
| 6.9.5 Sensitive security parameter entry and output | 94 |
| 6.9.6 Sensitive security parameter storage | 98 |
| 6.9.7 Sensitive security parameter zeroisation | 99 |
| 6.10 Self-tests | 102 |
| 6.10.1 Self-test general requirements | 102 |
| 6.10.2 Pre-operational self-tests | 105 |
| 6.10.3 Conditional self-tests | 109 |
| 6.11 Life-cycle assurance | 119 |
| 6.11.1 Life-cycle assurance general requirements | 119 |
| 6.11.2 Configuration management | 119 |

| | | |
|--------|---|-----|
| 6.11.3 | Design..... | 121 |
| 6.11.4 | Finite state model..... | 121 |
| 6.11.5 | Development..... | 125 |
| 6.11.6 | Vendor testing..... | 129 |
| 6.11.7 | Delivery and operation..... | 130 |
| 6.11.8 | End of life..... | 131 |
| 6.11.9 | Guidance documents..... | 132 |
| 6.12 | Mitigation of other attacks..... | 133 |
| 6.13 | Documentation requirements..... | 134 |
| 6.14 | Cryptographic module security policy | 134 |
| 6.15 | Approved security functions..... | 135 |
| 6.16 | Approved sensitive security parameter generation and establishment methods..... | 135 |
| 6.17 | Approved authentication mechanisms | 135 |
| 6.18 | Approved non-invasive attack mitigation test metrics | 135 |

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

This third edition cancels and replaces the second edition (ISO/IEC 24759:2014), of which it constitutes a minor revision. It also incorporates the Technical Corrigendum ISO/IEC 24759:2014/Cor.1:2015.

The main changes compared to the previous edition (plus other minor editorial modifications) are as follows:

- References to ISO/IEC 19790:2012 have been corrected throughout;
- [6.2.3.2](#): AS02.15, AS02.16, AS02.17 and AS02.18 modified;
- [6.3.3](#): AS03.04, AS03.07, AS03.10 and AS03.15 modified;
- [6.3.4](#): AS03.19 modified;
- [6.4.1](#): AS04.02 modified;
- [6.4.2](#); AS04.05, AS04.06 and AS04.07 modified;
- [6.4.3.1](#): AS04.11, AS04.13 and AS04.14;
- [6.4.3.2](#) and AS04.20;
- [6.4.4](#): AS04.39, AS04.40 and AS04.42 modified;
- [6.5](#): AS05.05, AS05.06, AS05.07, AS05.08, AS05.13, AS05.17 and AS05.18 modified;
- [6.8](#): AS08.04 modified;
- [6.10.1](#): AS10.17 modified.

Information technology — Security techniques — Test requirements for cryptographic modules

1 Scope

This document specifies the methods to be used by testing laboratories to test whether the cryptographic module conforms to the requirements specified in ISO/IEC 19790:2012. The methods are developed to provide a high degree of objectivity during the testing process and to ensure consistency across the testing laboratories.

This document also specifies the requirements for information that vendors provide to testing laboratories as supporting evidence to demonstrate their cryptographic modules' conformity to the requirements specified in ISO/IEC 19790:2012.

Vendors can use this document as guidance in trying to verify whether their cryptographic modules satisfy the requirements specified in ISO/IEC 19790:2012 before they apply to the testing laboratory for testing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 19790:2012, *Information technology — Security techniques — Security requirements for cryptographic modules*