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Information technology — Security techniques — Testing methods for the mitigation of non-invasive attack classes against cryptographic modules

Techonologie de l'information — Techniques de sécurité — Methodes de test pour la protection contre les attaques non intrusives des modules cryptographiques

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Foreword

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The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, SC 27, *IT Security techniques*.

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Information technology — Security techniques — Testing methods for the mitigation of non-invasive attack classes against cryptographic modules

1 Scope

This International Standard specifies the non-invasive attack mitigation test metrics for determining conformance to the requirements specified in ISO/IEC 19790 for Security Levels 3 and 4. The test metrics are associated with the security functions specified in ISO/IEC 19790. Testing will be conducted at the defined boundary of the cryptographic module and I/O available at its defined boundary.

The test methods used by testing laboratories to test whether the cryptographic module conforms to the requirements specified in ISO/IEC 19790 and the test metrics specified in this International Standard for each of the associated security functions specified in ISO/IEC 19790 are specified in ISO/IEC 24759. The test approach employed in this International Standard is an efficient "push-button" approach: the tests are technically sound, repeatable and have moderate costs.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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, *Information technology — Security techniques — Security requirements for cryptographic modules*

ISO/IEC 24759, *Information technology — Security techniques — Test requirements for cryptographic modules*

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