TECHNICAL SPECIFICATION

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Information technology — Security techniques — Guidelines for the assessment of information security controls

Technologies de l'information — Techniques de sécurité — Lignes directrices pour les auditeurs des contrôles de sécurité de l'information

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Foreword

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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 document 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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ISO/IEC TS 27008 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

This first edition of ISO/IEC TS 27008 cancels and replaces ISO/IEC TR 27008:2011.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document supports the Information Security Risk Management process pointed out in ISO/IEC 27001, and any relevant control sets identified

Information security controls should be fit-for-purpose (meaning appropriate and suitable to the task at hand i.e. capable of mitigating information risks), effective (e.g. properly specified, designed, implemented, used, managed and maintained) and efficient (delivering net value to the organization). This document explains how to assess an organization's information security controls against those and other objectives in order either to confirm that they are indeed fit-for-purpose, effective and efficient (providing assurance), or to identify the need for changes (improvement opportunities). The ultimate aim is that the information security controls, as a whole, adequately mitigate information risks that the organization finds unacceptable and unavoidable, in a reasonably cost-effective and business-aligned manner. It offers the flexibility needed to customize the necessary reviews based on business missions and goals, organizational policies and requirements, known emerging threats and vulnerabilities, operational considerations, information system and platform dependencies, and the risk appetite of the organization.

Please refer to ISO/IEC 27007 for guidelines for information security management systems auditing and ISO/IEC 27006 for requirements for bodies providing audit and certification of information security management systems.

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Information technology — Security techniques — Guidelines for the assessment of information security controls

1 Scope

This document provides guidance on reviewing and assessing the implementation and operation of information security controls, including the technical assessment of information system controls, in compliance with an organization's established information security requirements including technical compliance against assessment criteria based on the information security requirements established by the organization.

This document offers guidance on how to review and assess information security controls being managed through an Information Security Management System specified by ISO/IEC 27001.

It is applicable to all types and sizes of organizations, including public and private companies, government entities, and not-for-profit organizations conducting information security reviews and technical compliance checks.

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 27000, *Information technology — Security techniques — Information security management systems — Overview and vocabulary*

ISO/IEC 27017:2015, *Information technology — Security techniques — Code of practice for information security controls based on ISO/IEC 27002 for cloud services*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 27000 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Structure of this document

This document contains a description of the information security control assessment process including technical assessment.

Clause 5 provides background information.

Clause 6 provides an overview of information security control assessments.

Clause 7 presents review methods.

Clause 8 presents the control assessment process.