

ICS: 35.040

Geregistreeerde Belgische norm

NBN ISO/IEC TR 27008

1e uitg., november 2014

Normklasse: Z 07

Informatietechnologie - Beveiligingstechnieken - Richtlijnen voor auditors in verband met controles op het vlak van informatiebeveiliging (ISO/IEC TR 27008:2011)

Technologies de l'information - Techniques de sécurité - Lignes directrices pour les auditeurs des contrôles de sécurité de l'information (ISO/IEC TR 27008:2011)

Information technology - Security techniques - Guidelines for auditors on information security controls (ISO/IEC TR 27008:2011)

Toelating tot publicatie: 28 november 2014

De ISO/IEC TR 27008:2011 is geregistreerd als Belgisch document.

Dit document bestaat in het Engels.



Bureau voor Normalisatie - Jozef II-straat 40 - 1000 Brussel - België

Tel: +32 2 738 01 11 - Fax: +32 2 733 42 64 - E-mail: info@nbn.be - NBN Online: www.nbn.be
Bank 679-0000951-78 IBAN BE69 6790 0009 5178 BIC PCHQBEBB BTW BE0880857592

ICS: 35.040

*norme belge
enregistrée*

NBN ISO/IEC TR 27008

1e éd., novembre 2014

Indice de classement: Z 07

Technologies de l'information - Techniques de sécurité - Lignes directrices pour les auditeurs des contrôles de sécurité de l'information (ISO/IEC TR 27008:2011)

Informatietechnologie - Beveiligingstechnieken - Richtlijnen voor auditors in verband met controles op het vlak van informatiebeveiliging (ISO/IEC TR 27008:2011)

Information technology - Security techniques - Guidelines for auditors on information security controls (ISO/IEC TR 27008:2011)

Autorisation de publication: 28 novembre 2014

L'ISO/IEC TR 27008:2011 est enregistrée en tant que document belge

Ce document existe en anglais.



Bureau de Normalisation - rue Joseph II 40 - 1000 Bruxelles - Belgique

Tél: +32 2 738 01 11 - Fax: +32 2 733 42 64 - E-mail: info@nbn.be - NBN Online: www.nbn.be
Banque 679-0000951-78 IBAN BE69 6790 0009 5178 BIC PCHQBEBB TVA BE0880857592

TECHNICAL REPORT

**ISO/IEC
TR
27008**

First edition
2011-10-15

Information technology — Security techniques — Guidelines for auditors on information security controls

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

Reference number
ISO/IEC TR 27008:2011(E)





COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

FOREWORD	V
INTRODUCTION	VI
1 SCOPE	1
2 NORMATIVE REFERENCES	1
3 TERMS AND DEFINITIONS	1
4 STRUCTURE OF THIS TECHNICAL REPORT	1
5 BACKGROUND	2
6 OVERVIEW OF INFORMATION SECURITY CONTROL REVIEWS	3
6.1 REVIEW PROCESS	3
6.2 RESOURCING	5
7 REVIEW METHODS	5
7.1 OVERVIEW	5
7.2 REVIEW METHOD: EXAMINE	6
7.2.1 General	6
7.2.2 Attributes	6
7.3 REVIEW METHOD: INTERVIEW	7
7.3.1 General	7
7.3.2 Attributes	7
7.3.3 Coverage attribute	8
7.4 REVIEW METHOD: TEST	8
7.4.1 General	8
7.4.2 Test types	9
7.4.3 Extended review procedures	10
8 ACTIVITIES	10
8.1 PREPARATIONS	10
8.2 DEVELOPING A PLAN	12
8.2.1 Overview	12
8.2.2 Scope	12
8.2.3 Review procedures	12
8.2.4 Object-related considerations	13
8.2.5 Previous findings	13
8.2.6 Work assignments	14
8.2.7 External systems	14
8.2.8 Information assets and organization	14
8.2.9 Extended review procedure	15
8.2.10 Optimization	15
8.2.11 Finalization	15
8.3 CONDUCTING REVIEWS	16
8.4 ANALYSIS AND REPORTING RESULTS	16

ISO/IEC TR 27008:2011(E)

©2020 NBN. All rights reserved – PREVIEW first 9 pages

ANNEX A (INFORMATIVE) TECHNICAL COMPLIANCE CHECKING PRACTICE GUIDE 18

ANNEX B (INFORMATIVE) INITIAL INFORMATION GATHERING (OTHER THAN IT) 32

B.1 HUMAN RESOURCES AND SECURITY 32

B.2 POLICIES 32

B.3 ORGANIZATION 33

B.4 PHYSICAL AND ENVIRONMENTAL SECURITY 33

 B.4.1 Are the sites safe for information? 33

 B.4.2 Are the sites safe for ICT? (Environmental aspects) 34

 B.4.3 Are the sites safe for People? 34

B.5 INCIDENT MANAGEMENT 35

BIBLIOGRAPHY 36

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

In exceptional circumstances, when the joint technical committee has collected data of a different kind from that which is normally published as an International Standard (“state of the art”, for example), it may decide to publish a Technical Report. A Technical Report is entirely informative in nature and shall be subject to review every five years in the same manner as an International Standard.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

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

Introduction

This Technical Report supports the Information Security Management System (ISMS) risk management process defined within ISO/IEC 27001 and ISO/IEC 27005, and the controls included in ISO/IEC 27002.

This Technical Report provides guidance on reviewing an organization's information security controls, e.g. in the organization, business processes and system environment, including technical compliance checking.

Please refer to ISO/IEC 27007 for advice on auditing the management systems elements, and ISO/IEC 27006 regarding ISMS compliance reviewing for certification purposes.

Information technology — Security techniques — Guidelines for auditors on information security controls

1 Scope

This Technical Report provides guidance on reviewing the implementation and operation of controls, including technical compliance checking of information system controls, in compliance with an organization's established information security standards.

This Technical Report 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. This Technical Report is not intended for management systems audits.

2 Normative references

The following referenced documents are indispensable for the application 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 27000:2009, *Information technology — Security techniques — Information security management systems — Overview and vocabulary*

3 Terms and definitions

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

3.1

review object

specific item being reviewed

3.2

review objective

statement describing what is to be achieved as a result of a review

3.3

security implementation standard

document specifying authorized ways for realizing security

4 Structure of this Technical Report

This Technical Report contains a description of the information security control review process including technical compliance checking.

Background information is provided in Clause 5.