Second edition 2015-11-15

Information technology — Security techniques — Information security management for inter-sector and inter-organizational communications

Technologies de l'information — Techniques de sécurité — Gestion de la sécurité de l'information des communications intersectorielles et interorganisationnelles



ISO/IEC 27010:2015(E)

This is a preview of "ISO/IEC 27010:2015". Click here to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

COI	ntent	S	Page	
Fore	word		vi	
Intro	oductio	on	vii	
1	Scop	oe	1	
2	-	native references		
3		ns and definitions		
4				
	4.1	cepts and justification		
	4.1	Information sharing communities		
	4.3	Community management		
	4.4	Supporting entities		
	4.5	Inter-sector communication		
	4.6	Conformity	3	
	4.7	Communications model	4	
5	Infor	rmation security policies	4	
	5.1	Management direction for information security		
		5.1.1 Policies for information security	4	
		5.1.2 Review of the policies for information security	5	
6	Orga	nization of information security	5	
7	_	ian resource security		
/	7.1	Prior to employment		
	7.1	7.1.1 Screening		
		7.1.2 Terms and conditions of employment		
	7.2	During employment		
	7.3	Termination and change of employment		
8	Asse	t management	5	
U	8.1	Responsibility for assets		
		8.1.1 Inventory of assets		
		8.1.2 Ownership of assets		
		8.1.3 Acceptable use of assets		
		8.1.4 Return of assets		
	8.2	Information classification		
		8.2.1 Classification of information		
		8.2.2 Labelling of information		
	8.3	8.2.3 Handling of assets Media handling		
	8.4	Information exchanges protection		
	0.4	8.4.1 Information dissemination		
		8.4.2 Information disclaimers		
		8.4.3 Information credibility		
		8.4.4 Information sensitivity reduction		
		8.4.5 Anonymous source protection	8	
		8.4.6 Anonymous recipient protection		
		8.4.7 Onwards release authority	9	
9	Acce	ss control	9	
10	Cryp	otography	9	
	10.1	Cryptographic controls	9	
		10.1.1 Policy on the use of cryptographic controls	9	
		10.1.2 Key management		
11	Phvs	sical and environmental security	9	

12	Operations security				
	12.1	Operational procedures and responsibilities			
	12.2	Protection from malware			
		12.2.1 Controls against malware			
	12.3	Backup			
	12.4	Logging and monitoring.			
		12.4.1 Event logging			
		12.4.2 Protection of log information			
		12.4.3 Administrator and operator logs			
	10 5	12.4.4 Clock synchronization			
	12.5	Control of operational software			
	12.6 12.7	Technical vulnerability management			
	12./	Information systems audit considerations			
		12.7.1 Information systems audit controls			
		12.7.2 Community audit rights			
13		nunications security			
	13.1	Network security management	11		
	13.2	Information transfer			
		13.2.1 Information transfer policies and procedures			
		13.2.2 Agreements on information transfer			
		13.2.3 Electronic messaging			
		13.2.4 Confidentiality or non-disclosure agreements	11		
14	Syster	n acquisition, development and maintenance	11		
15		ier relationships			
	15.1	Information security in supplier relationships			
		15.1.1 Information security policy for supplier relationships			
		15.1.2 Addressing security within supplier agreements			
	152	15.1.3 Information and communication technology supply chain			
	15.2	Supplier service delivery management	12		
16	Inform	ormation security incident management			
	16.1	Management of information security incidents and improvements			
		16.1.1 Responsibilities and procedures			
		16.1.2 Reporting information security events	12		
		16.1.3 Reporting information security weaknesses			
		16.1.4 Assessment of, and decision on, information security events			
		16.1.5 Response to information security incidents	13		
		16.1.6 Learning from information security incidents			
		16.1.7 Collection of evidence			
		16.1.8 Early warning system	13		
17	Inforr	nation security aspects of business continuity management	13		
	17.1 Information security continuity				
		17.1.1 Planning information security continuity	13		
		17.1.2 Implementing information security continuity			
		17.1.3 Verify, review and evaluate information security continuity			
	17.2	Redundancies			
40					
18	_	liance			
	18.1	Compliance with legal and contractual requirements			
		18.1.1 Identification of applicable legislation and contractual requirements			
		18.1.2 Intellectual property rights			
		18.1.3 Protection of records			
		18.1.4 Privacy and protection of personally identifiable information			
		18.1.5 Regulation of cryptographic controls			
	10 2	18.1.6 Liability to the information sharing community			
	18.2	Information security reviews			
Annex	A (info	ormative) Sharing sensitive information	16		

ISO/IEC 27010:2015(E)

This is a preview of "ISO/IEC 27010:2015". Click here to purchase the full version from the ANSI store.

Annex B (informative) Establishing trust in information exchanges	21
Annex C (informative) The Traffic Light Protocol	25
Annex D (informative) Models for organizing an information sharing community	26
Bibliography	32

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 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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

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

This second edition cancels and replaces the first edition (ISO/IEC 27010:2012), which has been revised for compatibility with ISO/IEC 27001:2013 and ISO/IEC 27002:2013.

Introduction

This International Standard is a sector-specific supplement to ISO/IEC 27001:2013 and ISO/IEC 27002:2013 for use by information sharing communities. The guidelines contained within this International Standard are in addition to, and complement, the generic guidance given within other members of the ISO/IEC 27000 family of standards.

ISO/IEC 27001:2013 and ISO/IEC 27002:2013 address information exchange between organizations, but they do so in a generic manner. When organizations wish to communicate sensitive information to multiple other organizations, the originator must have confidence that its use in those other organizations will be subject to adequate security controls implemented by the receiving organizations. This can be achieved through the establishment of an information sharing community, where each member trusts the other members to protect the shared information, even though the organizations may otherwise be in competition with each other.

An information sharing community cannot work without trust. Those providing information must be able to trust the recipients not to disclose or to act upon the data inappropriately. Those receiving information must be able to trust that information is accurate, subject to any qualifications notified by the originator. Both aspects are important, and must be supported by demonstrably effective security policies and the use of good practice. To achieve this, the community members must all implement a common management system covering the security of the shared information. This is an information security management system (ISMS) for the information sharing community.

In addition, information sharing can take place between information sharing communities where not all recipients will be known to the originator. This will only work if there is adequate trust between the communities and their information sharing agreements. It is particularly relevant to the sharing of sensitive information between diverse communities, such as different industry or market sectors.