
**Information technology — Security
techniques — Code of practice for
Information security controls based on
ISO/IEC 27002 for telecommunications
organizations**

*Technologies de l'information — Techniques de sécurité — Code de
bonne pratique pour les contrôles de la sécurité de l'information fondés
sur l'ISO/IEC 27002 pour les organismes de télécommunications*

Withhold

Withdrawn



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Foreword

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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.

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.

This second edition cancels and replaces first edition of ISO/IEC 27011:2008 which has been technically revised.

ISO/IEC 27011 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*, in collaboration with ITU-T. The identical text is published as Rec. ITU-T X.1051.

CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references	1
3 Definitions and abbreviations	1
3.1 Definitions	1
3.2 Abbreviations	2
4 Overview	2
4.1 Structure of this Recommendation International Standard	2
4.2 Information security management systems in telecommunications organizations	3
5 Information security policies	5
6 Organization of information security	5
6.1 Internal organization	5
6.2 Mobile devices and teleworking	6
7 Human resource security	6
7.1 Prior to employment	6
7.2 During employment	7
7.3 Termination or change of employment	7
8 Asset management	7
8.1 Responsibility for assets	7
8.2 Information classification	8
8.3 Media handling	8
9 Access control	8
9.1 Business requirement for access control	8
9.2 User access management	9
9.3 User responsibilities	9
9.4 System and application access control	9
10 Cryptography	9
11 Physical and environmental security	9
11.1 Secure areas	9
11.2 Equipment	10
12 Operations security	12
12.1 Operational procedures and responsibilities	12
12.2 Protection from malware	13
12.3 Backup	13
12.4 Logging and monitoring	13
12.5 Control of operational software	13
12.6 Technical vulnerability management	14
12.7 Information systems audit considerations	14
13 Communications security	14
13.1 Network security management	14
13.2 Information transfer	15
14 System acquisition, development and maintenance	16
14.1 Security requirements of information systems	16
14.2 Security in development and support processes	16
14.3 Test data	16
15 Supplier relationships	16
15.1 Information security in supplier relationships	16
15.2 Supplier service delivery management	17
16 Information security incident management	17
16.1 Management of information security incidents and improvements	17
17 Information security aspects of business continuity management	19

	<i>Page</i>
17.1 Information security continuity	19
17.2 Redundancies	20
18 Compliance.....	20
Annex A – Telecommunications extended control set	21
Annex B – Additional guidance for network security	29
B.1 Security measures against network attacks	29
B.2 Network security measures for network congestion.....	30
Bibliography	31

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Introduction

This Recommendation | International Standard provides interpretation guidelines for the implementation and management of information security controls in telecommunications organizations based on ISO/IEC 27002.

Telecommunications organizations provide telecommunications services by facilitating the communications of customers through their infrastructure. In order to provide telecommunications services, telecommunications organizations need to interconnect and/or share their services and facilities and/or use the services and facilities of other telecommunications organizations. Furthermore, the site location, such as radio sites, antenna locations, ground cables and utility provision (power, water), may be accessed not only by the organization's staff, but also by contractors and providers external to the organization.

Therefore, the management of information security in telecommunications organizations is complex, potentially:

- depending on external parties;
- having to cover all areas of network infrastructure, services applications and other facilities;
- including a range of telecommunications technologies (e.g., wired, wireless or broadband);
- supporting a wide range of operational scales, service areas and service types.

In addition to the application of security objectives and controls described in ISO/IEC 27002, telecommunications organizations may need to implement extra controls to ensure confidentiality, integrity, availability and any other security property of telecommunications in order to manage security risk in an adequate fashion.

1) Confidentiality

Protecting confidentiality of information related to telecommunications from unauthorized disclosure. This implies non-disclosure of communications in terms of the existence, the content, the source, the destination and the date and time of communicated information.

It is critical that telecommunications organizations ensure that the non-disclosure of communications being handled by them is not breached. This includes ensuring that persons engaged by the telecommunications organization maintain the confidentiality of any information regarding others that may have come to be known during their work duties.

NOTE – The term "secrecy of communications" is used in some countries in the context of "non-disclosure of communications".

2) Integrity

Protecting the integrity of telecommunications information includes controlling the installation and use of telecommunications facilities to ensure the authenticity, accuracy and completeness of information transmitted, relayed or received by wire, radio or any other method.

3) Availability

Availability of telecommunications information includes ensuring that access to facilities and the medium used for the provision of communication services is authorized, regardless of whether communications is provided by wire, radio or any other method. Typically, telecommunications organizations give priority to essential communications in case of emergencies, managing unavailability of less important communications in compliance with regulatory requirements.

Audience

The audience of this Recommendation | International Standard consists of telecommunications organizations and those responsible for information security; together with security vendors, auditors, telecommunications terminal vendors and application content providers. This Recommendation | International Standard provides a common set of general security control objectives based on ISO/IEC 27002, telecommunications sector-specific controls and information security management guidelines allowing for the selection and implementation of such controls.

**INTERNATIONAL STANDARD
ITU-T RECOMMENDATION**

Information technology – Security techniques – Code of practice for information security controls based on ISO/IEC 27002 for telecommunications organizations

1 Scope

The scope of this Recommendation | International Standard is to define guidelines supporting the implementation of information security controls in telecommunications organizations.

The adoption of this Recommendation | International Standard will allow telecommunications organizations to meet baseline information security management requirements of confidentiality, integrity, availability and any other relevant security property.

2 Normative references

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

- ISO/IEC 27000, *Information technology – Security techniques – Information security management systems – Overview and vocabulary.*
- ISO/IEC 27002:2013, *Information technology – Security techniques – Code of practice for information security controls.*

Without Prejudice