INTERNATIONAL STANDARD



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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 **Teh STinterorganisationnelles REVIEW**

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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.

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 27010 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 27, IT Security techniques: A NDARD PREVIEW

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Introduction

This International Standard is a supplement to ISO/IEC 27001:2005 and ISO/IEC 27002:2005 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.

Whereas ISO/IEC 27001:2005 and ISO/IEC 27002:2005 address information exchange between organizations, 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 the 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.

This International Standard provides guidelines and general principles on how the specified requirements can be met using established messaging and other technical methods. It is designed to support the creation of trust when exchanging and sharing sensitive information, thereby encouraging the international growth of information sharing communities.

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

1 Scope

This International Standard provides guidelines in addition to guidance given in the ISO/IEC 27000 family of standards for implementing information security management within information sharing communities.

This International Standard provides controls and guidance specifically relating to initiating, implementing, maintaining, and improving information security in inter-organizational and inter-sector communications.

This International Standard is applicable to all forms of exchange and sharing of sensitive information, both public and private, nationally and internationally, within the same industry or market sector or between sectors. In particular, it may be applicable to information exchanges and sharing relating to the provision, maintenance and protection of an organization's or nation state's critical infrastructure.

Normative references (standards.iteh.ai) 2

The following referenced documents are sindispensable for the application of this document. For dated references, only the dition dited applies groundated 7 references, the latest edition of the referenced document (including any amendments) applies 92/iso-iec-27010-2012

ISO/IEC 27000:2009, Information technology — Security techniques — Information security management systems — Overview and vocabulary

ISO/IEC 27001:2005, Information technology — Security techniques — Information security management systems — Requirements

ISO/IEC 27002:2005, Information technology — Security techniques — Code of practice for information security management

Terms and definitions 3

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

3.1

information sharing community

group of organizations that agree to share information

NOTE An organization can be an individual.

3.2

trusted information communication entity

autonomous organization supporting information exchange within an information sharing community

4 Concepts and justification

4.1 Introduction

ISMS guidance specific to inter-sector and inter-organizational communications has been identified in Clauses 5 to 15 below.

ISO/IEC 27002:2005 defines controls that cover the exchange of information between organizations on a bilateral basis, and also controls for the general distribution of publicly available information. However, in some circumstances there exists a need to share information within a community of organizations, where the information is sensitive in some way and cannot be made publicly available other than to members of the community. Often the information can only be made available to certain individuals within each member organization, or may have other security requirements such as anonymisation of information. This International Standard defines additional potential controls and provides additional guidance and interpretation of ISO/IEC 27001:2005 and ISO/IEC 27002:2005 in order to meet these requirements.

4.2 Information sharing communities

To be effective, information sharing communities must have some common interest or other relationship to define the scope of the shared sensitive information. For example, communities may be market sector specific, and limit membership to organizations within that one sector. Of course, there may be other bases for common interest, for example, geographical location, or common ownership.

4.3 Community management

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Information sharing communities will be created from independent organizations or parts of organizations. There may therefore not be clear or uniform organizational structures and management functions applying to all members. For information security management to be effective, management commitment is necessary. Therefore, the organizational structures and management of the organizational structures and management of the organizational structures and management splying to community information security management should be clearly defined catalog/standards/sist/77727a19-242a-4f81-9383-

b5fda9810b92/iso-iec-27010-2012

Differences among member organizations of an information sharing community should also be considered. The differences could include:

- whether member organizations already operate their own ISMS, and
- member rules on protections of assets and information disclosure.

4.4 Supporting entities

Many information sharing communities will choose to establish or appoint a centralised supporting entity to organize and support information sharing. Such an entity can provide many supporting controls such as anonymisation of source and recipients more easily and efficiently than where members communicate directly.

There are a number of different organizational models that can be used to create supporting entities. Annex D to this International Standard describe two common models, the Trusted Information Communication Entity (TICE) and the Warning, Advice and Reporting Point (WARP).

4.5 Inter-sector communication

Many information sharing communities will be sector based, as this provides a natural scope of common interest. However, there may well be information shared by such communities that would be of interest to other information sharing communities established in other sectors. In such cases it may be possible to establish information sharing communities of information sharing communities, again based on some common interest, such as the nature of the shared information. We refer to this as inter-sector communication.

Inter-sector communication is greatly facilitated where supporting entities exist within each information sharing community, as the necessary information exchange agreements and controls can then be established between the supporting entities, rather than between all members of all communities. Some inter-sector communities will require anonymisation of the source or recipient organizations; this also can be achieved by use of supporting entities.

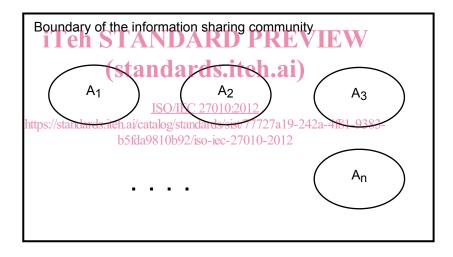
4.6 Conformity

Any information security management system (ISMS) created and operated in accordance with ISO/IEC 27001:2005 and using controls from ISO/IEC 27002:2005, this International Standard and other sources can be assessed for conformity against ISO/IEC 27001:2005, without modification or addition to that International Standard.

However, there are a number of places where ISO/IEC 27001:2005 will need to be interpreted when applied to an information sharing community (or, for inter-sector communication, a community of communities).

The first area where interpretation is required is the definition of the organization concerned.

ISO/IEC 27001:2005 requires that an ISMS is established by an organization and operates within the context of its overall business activities and the risks that it faces (ISO/IEC 27001:2005, 4.1). In this context, the relevant organization is the information sharing community. However, the members of the information sharing community will themselves be organizations – see Figure 1.



Key

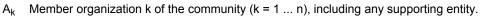


Figure 1 — Communities and organizations

Secondly, in many information sharing communities, not all persons within the member organizations will be permitted access to the sensitive information shared between members. In this case, part of the member organization will be within scope of the community ISMS and part will be outside. The part outside the community scope will only have access to community information if it is marked for wider release – see Figure 2.

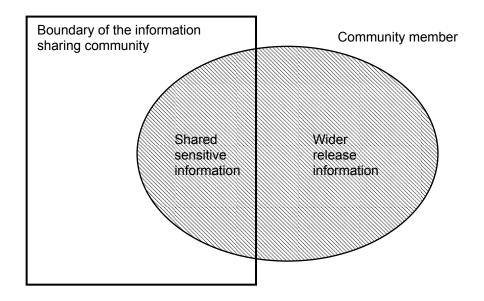


Figure 2 — Member partially in scope

It is possible that members of the information sharing community may have their own information security management systems, and in consequence some processes might fall within scope of both the community and members' management systems. In this case, there is at least a theoretical possibility that there might be conflicting and incompatible requirements upon those processes. This would be a case where exclusion from the scope of the member's ISMS might be justified – see ISO/IEC 27001:2005, 4.2.1 a).

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When defining its risk assessment approach (ISO/IEC 27001:2005, 4.2.1 c), the information sharing community will need to recognise that the impact of risks may be different on different members of the community. The community will therefore need to choose a risk assessment methodology that can handle non-uniform impact, similarly for its risk assessment criteria.

Measuring the effectiveness of the selected controls (ISO/IEC 27001:2005, 4.2.3 c) will need the participation of all members of the information sharing community. All members will need to provide regular feedback to information providers and the community as a whole concerning the effectiveness of the controls in their own environment.

4.7 Communications model

Communications of sensitive information as covered by this International Standard can take any form – written, verbal or electronic – provided that the selected control requirements are met.

In the remainder of this International Standard, individual sensitive communications are described in terms of the following participants:

- The source of an item of information is the person or organization that originates an item of information; the source does not need to be a member of the community.
- The originator is the member of an information sharing community that initiates its distribution within the community. The originator may distribute the information directly, or send it to a supporting entity for distribution. The originator may but need not be the same as the source of the information; the originator may conceal the identity of the source. Communities may provide facilities to enable a member to conceal its own identity as the originator.
- A recipient is a receiver of information distributed within the community. Recipients need not be members of the community if the information is identified as available for wider distribution. Communities may provide facilities to enable recipients to conceal their identities from the originators of information.

5 Security policy

5.1 Information security policy

5.1.1 Information security policy document

Control 5.1.1 from ISO/IEC 27002:2005 is augmented as follows:

Implementation guidance

The information security policy document should define how the community members will work together to set security management policies and direction for the information sharing community. It should be made available to all employees involved in information sharing within the community. The policy may restrict its dissemination to other employees of community members.

The information security policy document should define the information marking and distribution policy used within the community.

5.1.2 Review of the information security policy

Control 5.1.2 from ISO/IEC 27002:2005 is augmented as follows:

Implementation guidance

The input to the management review should include information on significant changes to membership of the information sharing community. (standards.iteh.ai)

6 Organization of information security7010:2012

https://standards.iteh.ai/catalog/standards/sist/77727a19-242a-4f81-9383-

6.1 Internal organization b5fda9810b92/iso-iec-27010-2012

No additional information specific to inter-sector or inter-organizational communications.

6.2 External parties

6.2.1 Identification of risks related to external parties

No additional information specific to inter-sector or inter-organizational communications.

6.2.2 Addressing security when dealing with customers

No additional information specific to inter-sector or inter-organizational communications.

6.2.3 Addressing security in third party agreements

Control 6.2.3 from ISO/IEC 27002:2005 is augmented as follows:

Implementation guidance

All community members should be made aware of the identities of all third parties involved in the provision of community services, in case they have objections to particular parties being involved in the handling of information that they provide.

The agreements with vendors and service providers associated with provision of community services should enable security reviews and audits of their services to be performed on a regular basis.