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ISO 27000-series Update for ISMS

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Abstract

- The ISO/IEC 27000-series standards provide an information security framework designed to assist organization in managing cyber-attack risks and improving their information security practices. It does this by setting out information security management system (ISMS) requirements and guidance, providing a systematic approach to risk management that focuses on people, processes, and technology. At the heart of this series is the ISO/IEC 27001 standard with its ISO/IEC 27002 companion, which are used internationally by organizations seeking to certify their ISMS. With the February 2022 publication of the third edition of ISO/IEC 27002, the stage has been set for a wave of changes for the ISO/IEC 27000-series that will also impact ISO/IEC 27001 certifications.
- This session will highlight the changes for the third edition of ISO/IEC 27002 and explain the ramifications to the entire series, including anticipated timelines. The last such changes in 2013 had a significant impact on the security community and early indications are that the new ISMS requirements and guidance are non-trivial changes.



Background

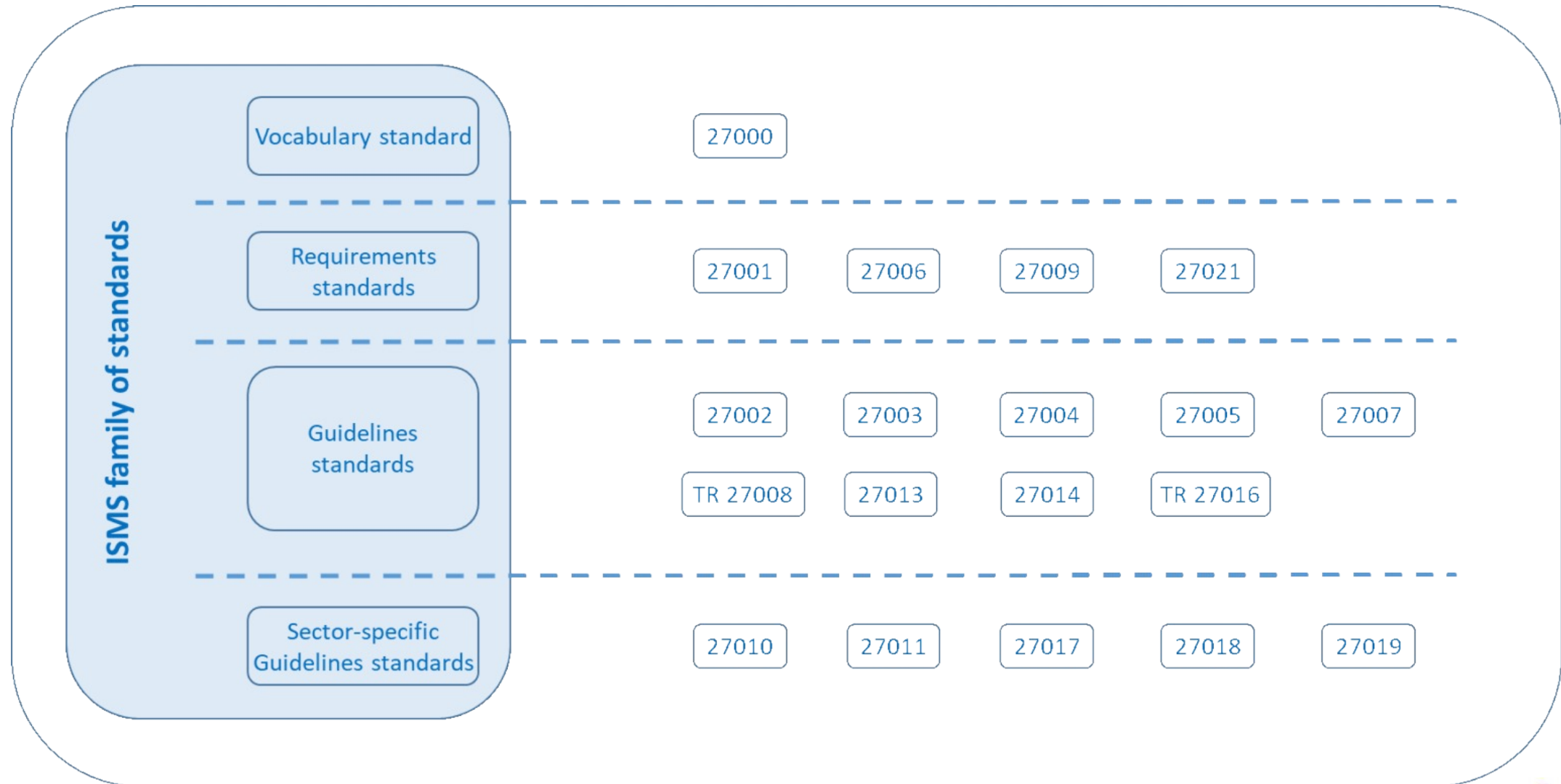
Introduction to ISO/IEC 27000-series Standards

- Provide best practice recommendations on the management of information risks through information security controls within the context of an overall information security management system (ISMS)
- They are not specific to any industry and can be applied in any business, regardless of size and industry
- The ISMS concept incorporates continuous feedback and improvements to respond to the changes in threats or vulnerabilities that occurred as a result of incidents.
- There are about 65 standards in the series
- Sometimes called the “ISMS Family of Standards” or “ISO27K” for short

Source of the ISO/IEC 27000-series Standards

- Produced by:
 - International Organization for Standardization (ISO) and
 - International Electrotechnical Commission (IEC)
 - Working under Joint Technical Committee 1 (JTC 1) Information technology
 - With development managed by Subcommittee 27 (SC 27) Information security, cybersecurity, privacy protections
- Over 80 countries (national bodies) are members of SC 27; about 50 are voting members
- SC 27 has liaisons with about 35 internal ISO organizations
- SC 27 has liaison with about 50 external organizations

Core Standards



INTERNATIONAL
STANDARD

ISO/IEC
27001

Second edition
2013-10-01

**Information technology — Security
techniques — Information security
management systems — Requirements**

*Technologies de l'information — Techniques de sécurité — Systèmes
de management de la sécurité de l'information — Exigences*

Annex A:
14 control
sets



Reference number
ISO/IEC 27001:2013(E)

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INTERNATIONAL
STANDARD

ISO/IEC
27002

Second edition
2013-10-01

**Information technology — Security
techniques — Code of practice for
information security controls**

*Technologies de l'information — Techniques de sécurité — Code de
bonne pratique pour le management de la sécurité de l'information*

Supplementary
guide on how to
implement the
ISO/IEC 27001,
Annex A security
controls



Reference number
ISO/IEC 27002:2013(E)

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ISO 27001 Certification



- Means that the organization's ISO 27001 ISMS has been certified in compliance with the standard by auditors known as certification bodies
- Once a certification body issues an ISO 27001 certificate to an organization
 - It is valid for a period of three years
 - The certification body will perform surveillance audits to evaluate if the organization is maintaining the ISMS properly, and if required improvements are being implemented in due time
- Changes to ISO/IEC 27001 (new edition) cause existing ISO 27001 certification to expire after a transition period (typically 24 months)



The Update Journey

The New ISO/IEC 27002:2022

- Published February 2022; supersedes the 2013 version
- Significant changes to the standard
- Many standards in the ISO/IEC 27000-series have specific references to ISO/IEC 27002; they are now broken
- The 14 control domains are now organized into 4 categories: Organizational, People, Physical, and Technological
- There are a total of 93 controls in the ISO/IEC 27001:2022 (21 less than ISO/IEC 27002:2013):
 - 11 controls are new;
 - 24 controls were merged from two, three, or more controls from the 2013 version
 - 58 controls from the 2013 version were reviewed and revised to better align with the current information security and cyber security environment
- There was a concentrated effort to avoid control redundancy.
- A “purpose” element has been applied to the controls within the 2022 version, as opposed to the use of a control objective for a group of controls.
- The concept of “attributes to controls” has been introduced
 - Intention of enhancing the risk assessment and treatment approach
 - Allows the creation of different views—i.e., different categorizations of controls as seen from a different perspective to the control themes

Update Roadmap

- **ISO/IEC 27001 is being updated**

- Amendment underway to replace the contents of Annex A with contents aligned with ISO/IEC 27002:2022
- A new edition of ISO/IEC 27001 will be produced later this year; consolidation of amendment and corrigenda

- **Other revisions underway**

- ISO/IEC 27000, Information technology — Security techniques — Information security management systems — Overview and vocabulary
- ISO/IEC 27005, Information security, cybersecurity and privacy protection — Guidance on managing information security risks
- ISO/IEC 27006-1, Requirements for bodies providing audit and certification of information security management systems — Part 1: General
- ISO/IEC 27006-2, Requirements for bodies providing audit and certification of information security management systems — Part 2: Privacy information management systems
- ISO/IEC TS 27008, Information technology — Security techniques — Guidelines for the assessment of information security controls
- ISO/IEC 27009, Information security, cybersecurity and privacy protection — Sector-specific application of ISO/IEC 27001 — Requirements
- ISO/IEC 27017, Information technology — Security techniques — Code of practice for information security controls based on ISO/IEC 27002 for cloud services
- ISO/IEC 27701, Security techniques — Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management — Requirements and guidelines

Summary

- The major update of ISO/IEC 27002 has created issues for all documents that references specific clauses
- ISO/IEC 27001 is queued for updates
 - Annex A get a facelift
 - New edition will impact existing ISO 27001 certifications (24-month transition)
 - Full revision of ISO/IEC 27001 is planned to start in late 2022 with publication anticipated in 2025
- Several of the ISO/IEC 27000-series are undergoing revisions that are primarily focused on realigning with the new ISO/IEC 27002
- Many other ISO standards are likely to be updated to reflect changes to the ISO/IEC 27000-series



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