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ISO/IEC 27000-series

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The **ISO/IEC 27000-series** (also known as the 'ISMS Family of Standards' or 'ISO27K' for short) comprises [information security](#) standards published jointly by the [International Organization for Standardization](#) (ISO) and the [International Electrotechnical Commission](#) (IEC).^[1]

The series provides [best practice](#) recommendations on information security management—the management of information risks through information security controls—within the context of an overall [Information security management system](#) (ISMS), similar in design to management systems for quality assurance (the ISO 9000 series), environmental protection (the ISO 14000 series) and other management systems.^{[2][3][4]}

The series is deliberately broad in scope, covering more than just privacy, confidentiality and IT/technical/cybersecurity issues. It is applicable to organizations of all shapes and sizes. All organizations are encouraged to assess their information risks, then treat them (typically using information security controls) according to their needs, using the guidance and suggestions where relevant. Given the dynamic nature of information risk and security, the ISMS concept incorporates continuous feedback and improvement activities to respond to changes in the threats, vulnerabilities or impacts of incidents.

The standards are the product of [ISO/IEC JTC1 \(Joint Technical Committee 1\) SC27 \(Subcommittee 27\)](#), an international body that meets in person twice a year.

The ISO/IEC standards are sold directly by ISO, mostly in English, French and Chinese. Sales outlets associated with various national standards bodies also sell directly translated versions in other languages.

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Early history [\[edit \]](#)

Many people and organisations are involved in the development and maintenance of the ISO27K standards. The first standard in this series was ISO/IEC 17799:2000; this was a fast-tracking of the existing British standard [BS 7799](#) part 1:1999^[5] The initial release of [BS 7799](#) was based, in part, on an information security policy

manual developed by the Royal Dutch/Shell Group in the late 1980s and early 1990s. In 1993, what was then the [Department of Trade and Industry \(United Kingdom\)](#) convened a team to review existing practice in information security, with the goal of producing a standards document. In 1995, the [BSI Group](#) published the first version of [BS 7799](#).^[6] One of the principal authors of BS 7799 recalls that, at the beginning of 1993, "The DTI decided to quickly assemble a group of industry representatives from seven different sectors: Shell ([David Lacey] and Les Riley), BOC Group (Neil Twist), BT (Dennis Willets), Marks & Spencer (Steve Jones), Midland Bank (Richard Hackworth), Nationwide (John Bowles) and Unilever (Rolf Moulton)."^[7] David Lacey credits [Donn B. Parker](#) as having the "original idea of establishing a set of information security controls", and with producing a document containing a "collection of around a hundred baseline controls" by the late 1980s for "the I-4 Information Security circle"^[8] which he conceived and founded."

Published standards [\[edit \]](#)

The published ISO27K standards related to "information technology - security techniques" are:

1. [ISO/IEC 27000](#) — Information security management systems — Overview and vocabulary^[9]
2. [ISO/IEC 27001](#) — Information technology - Security Techniques - Information security management systems — Requirements. The 2013 release of the standard specifies an information security management system in the same formalized, structured and succinct manner as other ISO standards specify other kinds of management systems.
3. [ISO/IEC 27002](#) — Code of practice for information security controls - essentially a detailed catalog of information security controls that might be managed through the ISMS
4. [ISO/IEC 27003](#) — Information security management system implementation guidance
5. [ISO/IEC 27004](#) — Information security management — Monitoring, measurement, analysis and evaluation^[10]
6. [ISO/IEC 27005](#) — Information security risk management^[11]
7. [ISO/IEC 27006](#) — Requirements for bodies providing audit and certification of information security management systems
8. [ISO/IEC 27007](#) — Guidelines for information security management systems auditing (focused on auditing the management system)
9. [ISO/IEC TR 27008](#) — Guidance for auditors on ISMS controls (focused on auditing the information security controls)
10. [ISO/IEC 27009](#) — Essentially an internal document for the committee developing sector/industry-specific variants or implementation guidelines for the ISO27K standards
11. [ISO/IEC 27010](#) — Information security management for inter-sector and inter-organizational communications
12. [ISO/IEC 27011](#) — Information security management guidelines for telecommunications organizations based on ISO/IEC 27002

13. ISO/IEC 27013 — Guideline on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1 (derived from ITIL)
14. ISO/IEC 27014 — Information security governance.^[12] Mahncke assessed this standard in the context of Australian e-health.^[13]
15. ISO/IEC TR 27015 — Information security management guidelines for financial services - Now withdrawn^[14]
16. ISO/IEC TR 27016 — information security economics
17. ISO/IEC 27017 — Code of practice for information security controls based on ISO/IEC 27002 for cloud services
18. ISO/IEC 27018 — Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors
19. ISO/IEC TR 27019 — Information security for process control in the energy industry
20. ISO/IEC 27031 — Guidelines for information and communication technology readiness for business continuity
21. ISO/IEC 27032 — Guideline for cybersecurity
22. ISO/IEC 27033-1 — Network security - Part 1: Overview and concepts
23. ISO/IEC 27033-2 — Network security - Part 2: Guidelines for the design and implementation of network security
24. ISO/IEC 27033-3 — Network security - Part 3: Reference networking scenarios - Threats, design techniques and control issues
25. ISO/IEC 27033-4 — Network security - Part 4: Securing communications between networks using security gateways
26. ISO/IEC 27033-5 — Network security - Part 5: Securing communications across networks using Virtual Private Networks (VPNs)
27. ISO/IEC 27033-6 — Network security - Part 6: Securing wireless IP network access
28. ISO/IEC 27034-1 — Application security - Part 1: Guideline for application security
29. ISO/IEC 27034-2 — Application security - Part 2: Organization normative framework
30. ISO/IEC 27034-6 — Application security - Part 6: Case studies
31. ISO/IEC 27035-1 — Information security incident management - Part 1: Principles of incident management
32. ISO/IEC 27035-2 — Information security incident management - Part 2: Guidelines to plan and prepare for incident response
33. ISO/IEC 27036-1 — Information security for supplier relationships - Part 1: Overview and concepts
34. ISO/IEC 27036-2 — Information security for supplier relationships - Part 2: Requirements
35. ISO/IEC 27036-3 — Information security for supplier relationships - Part 3: Guidelines for information and communication technology [supply chain security](#)
36. ISO/IEC 27036-4 — Information security for supplier relationships - Part 4: Guidelines for security of cloud services

37. ISO/IEC 27037 — Guidelines for identification, collection, acquisition and preservation of digital evidence
38. ISO/IEC 27038 — Specification for Digital redaction on Digital Documents
39. ISO/IEC 27039 — Intrusion prevention
40. ISO/IEC 27040 — Storage security^[15]
41. ISO/IEC 27041 — Investigation assurance
42. ISO/IEC 27042 — Analyzing digital evidence
43. ISO/IEC 27043 — Incident investigation
44. ISO/IEC 27050-1 — Electronic discovery - Part 1: Overview and concepts
45. ISO/IEC 27050-2 — Electronic discovery - Part 2: Guidance for governance and management of electronic discovery
46. ISO 27799 — Information security management in health using ISO/IEC 27002 - guides health industry organizations on how to protect personal health information using ISO/IEC 27002.

In preparation [\[edit \]](#)

- Further ISO27K standards are in preparation covering aspects such as [digital forensics](#) and cybersecurity, while the released ISO27K standards are routinely reviewed and updated on a ~5 year cycle.

See also [\[edit \]](#)

- [ISO/IEC JTC 1/SC 27 - IT Security techniques](#)
- [BS 7799](#), the original British Standard from which ISO/IEC 17799, ISO/IEC 27002 and ISO/IEC 27001 were derived
- [Document management system](#)
- [Sarbanes–Oxley Act](#)
- [Standard of Good Practice](#) published by the [Information Security Forum](#)

References [\[edit \]](#)

1. [^] [ISO Freely Available Standards - see ISO/IEC 27000:2014](#)
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14. [^] "ISO/IEC TR 27015:2012 - Information technology -- Security techniques -- Information security management guidelines for financial services" [↗](#). *www.iso.org*. Retrieved 2018-04-03.
15. [^] "ISO/IEC 27040" [↗](#). *ISO Standards Catalogue*. ISO. Retrieved 2014-06-15.

External links [\[edit \]](#)

- [The ISO 17799 Newsletter](#) [↗](#)
- [Opensource software to support ISO 27000 processes](#) [↗](#)

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ISO standards by standard number

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List of International Electrotechnical Commission standards

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