WHAT IS ISO/IEC 27001?

ISO/IEC 27001 is the international standard for Information Security Management Systems (ISMS). It's the only certifiable standard in the ISO 27000 family and provides a systematic framework for managing sensitive information securely.

1. BASIC DATA

- Full name: ISO/IEC 27001:2022 (current version)
- Type: Certifiable international standard
- Objective: Protect confidentiality, integrity, and availability of information
- Applicable to: Organizations of any size and sector

2. MAIN STRUCTURE

- Plan: Establish the ISMS
- Do: Implement and operate the ISMS
- Check: Monitor and review the ISMS
- Act: Maintain and improve the ISMS

3. FOUR FUNDAMENTAL PILLARS

- Confidentiality: Only authorized people access information
- Integrity: Information is accurate and complete
- Availability: Information is accessible when needed
- Traceability: Access and use of information can be tracked

4. SECURITY CONTROLS (ANNEX A - 2022)

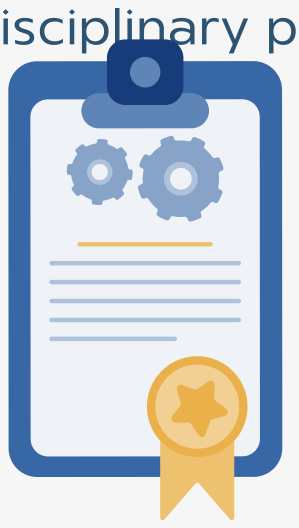
The 2022 version includes 93 controls organized in 4 categories:

A.5 - ORGANIZATIONAL CONTROLS (37 CONTROLS)

- Security policies
- Human resource management
- Asset management
- Physical access control

A.6 - PEOPLE CONTROLS (8 CONTROLS)

- Terms and conditions of employment
- Security awareness
- Disciplinary process



A.7 - PHYSICAL CONTROLS (14 CONTROLS)

- Secure areas
- Equipment protection
- Clear desk and clear screen

A.8 - TECHNOLOGICAL CONTROLS (34 CONTROLS)

- Vulnerability management
- Cryptography
- Network security
- Secure development

5. MAIN BENEFITS

- Reduction of security risks
- Legal and regulatory compliance
- Improved business reputation
- Competitive advantage
- Reduced costs from incidents
- Increased customer and partner confidence

6. IMPLEMENTATION PROCESS

- Management commitment
- Context and stakeholder analysis
- Risk assessment
- Risk treatment

7. RELEVANT STATISTICS

- Over 50,000 certificates issued worldwide
- Present in more than 170 countries
- 20% annual growth in certifications
- Applicable to organizations from 1 to 100,000+ employees

REFERENCES

[1] L. Author et al., "Enhance Enterprise Security through Implementing ISO/IEC 27001 Standard," IEEE Conference Publication, 2021. [Online]. Available: https://ieeexplore.ieee.org/document/9672401/