

Access to source code

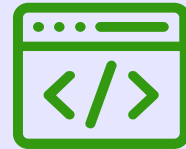
ISO 27002 Control 8.4

Control

Read and write access to source code, development tools and software libraries should be appropriately managed

Purpose

To prevent the introduction of unauthorized functionality, avoid unintentional or malicious changes and to maintain the confidentiality of valuable intellectual property



Why is it important?

- Source code is a highly valuable asset susceptible to modification or retrieval by unauthorized persons
- Controlling access reduces the potential for corruption of computer programs
- Ensures accountability and traceability of all source code modifications

Who should be involved in the process ?

- Developers (granted read/write access based on role)
- Designated owners/privileged personnel (usually granted write access)
- Management (authorizing updates and changes 8.32)
- The organization (managing central storage and source code libraries)



How is it implemented ?

- Strictly control access to source code, associated items (designs, specifications), and development tools
- Implement a centralized code repository and manage read access separately from write access
- Grant access according to established procedures and change control (8.32)
- Hold program listings in a secure environment and maintain an audit log of all access and changes

Link with other frameworks

- NIST 800-53 rev5 : AC-3*, AC-3(11), CM-5
- NIST CSF 2.0 : PR.DS-02, PR.DS-10



Renaud Dardenne
Asphalia Consulting