

Cybersecurity standards for the public sector - which one?

Presented By:

Gerard Joyce, CTO, CalQRisk

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Outline

- What's new in 27001:2022
- What's new in NIST 2.0
- What's in the Public Sector Cyber Security Baseline Standard
- What's in Cyber Essentials 3.1
- How do they compare?



You should shoot for high standards, and believe they're obtainable

Buster Posey

Who we are and what we do

- Experienced Risk & Compliance Professionals
- Members of IRM, IOB, CI (ACOI), IoD, ACCA, ISACA,
- We Make A Governance, Risk & Compliance Solution called CalQRisk
 - A cloud-based software solution
- Risk Advisory Service
 - In-house / Virtual Training, Strategic Risk Alignment, Risk Management Framework
- CalQRisk is used by 3,000+ users in regulated firms and others
 Including: Financial Services organisations. Not-For-Profit sector and Public sector





Full title:

Information security, cybersecurity and privacy protection — Information security management systems — **Requirements** Latest: 27001:2022 Previous 27001:2013



Who is it for:

- Chief Information Security Officers (CISOs)
- Cyber security risk analysts/advisors
- > Information security consultants
- Risk managers in compliance and information security



Structure:

Aligned with ISO format for Management System standards ISO/IEC 27001:2022(E)

5.12

Classification of information

- > 4. Context of the Organisation
- > 5. Leadership
- > 6. Planning
- > 7. Support
- > 8. Operation
- 9. Performance Evaluation
- > 10.Improvement

		Information shall be classified according to the information security needs of the organization based on confidentiality, integrity, availability and relevant interested party requirements.
5.13	Labelling of information	Control
		An appropriate set of procedures for information labelling shall be developed and implemented in accordance with the information clas- sification scheme adopted by the organization.
5.14	Information transfer	Control
		Information transfer rules, procedures, or agreements shall be in place for all types of transfer facilities within the organization and between the organization and other parties.

Annex A Information Security Controls Reference



Table A.1 (continued)

Control

Changes / What's New

Number of controls in Annex reduced from 114 to 93

- Merged 57 into 24
- > 11 new controls added, 3 removed, 23 renamed
- Controls grouped differently (were in 14 domains, now in 4 themes)
 - People (8 controls)
 - > Organizational (37 controls)
 - > Technological (34 controls
 - > Physical (14 controls)



The 11 New Controls:

- A.5.7 Threat Intelligence
- A.5.23 Information security for use of cloud services
- A.5.30 ICT readiness for business continuity
- A.7.4 Physical security monitoring
- > A.8.9 Configuration Management

- Information Deletion
 - Data Masking
 - Data Leakage Prevention
 - Monitoring Activities
- > A.8.23 Web Filtering

► A8.10

► A.8.11

► A.8.12

► A.8.16

► A.8.28

Secure Coding





Full title:

The NIST cybersecurity Framework (CSF) 2.0

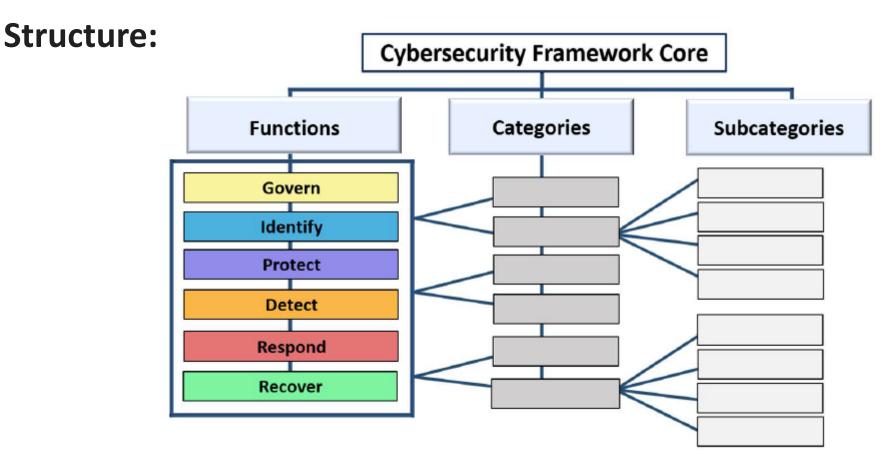
Latest: February 26, 2024 Previous: Ver 1.1 April 16 2018



Who is it for:

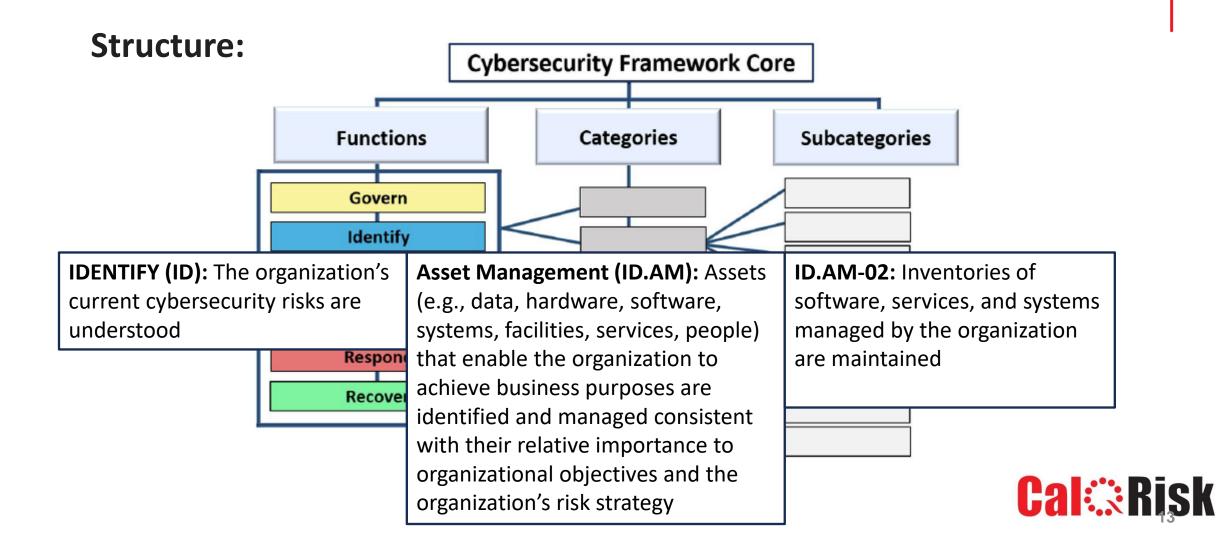
- > Industry
- Government Agencies
- Other Organisations





The CSF *describes* desired outcomes that are intended to be understood by a broad audience,





Changes / What's New

ID.AM-02: Inventories of software, services, and systems managed by the organization are maintained Ex1: Maintain inventories for all types of software and services, including commercial-off-the-shelf, open-source, custom applications, API services, and cloud-based applications and services Ex2: Constantly monitor all platforms, including containers and virtual machines, for software and service inventory changes Ex3: Maintain an inventory of the organization's systems

- > Added 1 function, "Govern", now 6 Functions
- ➢ 22 Categories, down from 23, 106 sub-categories, down from 108
- Greater emphasis on integrating cybersecurity into business strategy
- Managing Third Parties / Supply Chain risk now a key consideration
- Includes many references to other frameworks (e.g. Secure Software Development Framework)
- Added "Implementation Examples"
- Added "Improvement" category to the Identify function ... applies to all areas.



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Full title:

Public Sector Cyber Security Baseline Standards

Latest: November 2022 Previous: November 2021



Who is it for:

- > Applies to all Public Service Bodies
- Aimed at the ICT department /governance committee



Structure:

- > Aligned with NIST (Ver 1.1)
- Comprises 5 Themes
 - > Identify (Cyber Security Governance Processes)
 - > Protect (Cyber Security Protection Processes)
 - > Detect (Cyber Security Detection Processes)
 - > Respond (Cyber Security Respond Processes)
 - > Recover (Cyber Security Recover Processes)



9 sub-sections, 18 Reqs
14 sub-sections, 58 Reqs
7 sub-sections, 7 Reqs
7 sub-sections, 7 Reqs
6 Sub-sections, 14 Reqs



What's in it?

CIRP will use commonly known processes...: Preparation, Identification, Containment, Eradication, Recover and Lessons Learned

> 5 Themes, 42 Subsections, 104 high-level requirements / measures

- > The 104 high level requirements translate into ~ 222 detail Reqs
 - Shown as "Guidance Notes", but language mostly indicates "expected"
- > 40 of these are specific to the PSCSBS and do not appear elsewhere
- Some are at a detail level. E.g. detail section in your CIRP
- Cyber Incident Response Plan Checklist
- Links to Useful Resources





Full title:

Cyber Essentials: Requirements for IT infrastructure v3.1

Latest: April 2023 Previous: January 2023 (3.0) First Version: June 2014



Who is it for:

- > Applies to all organisations, any size, any sector
- Required if bidding for UK government contracts
- > To protect against common online security threats



Structure:

➤Comprises 5 Technical Control Themes

- > Firewalls
- > Secure Configuration
- > Security update Management
- > User Access Control
- > Malware Protection
- Covers the IT infrastructure
- Evidence of actual working controls

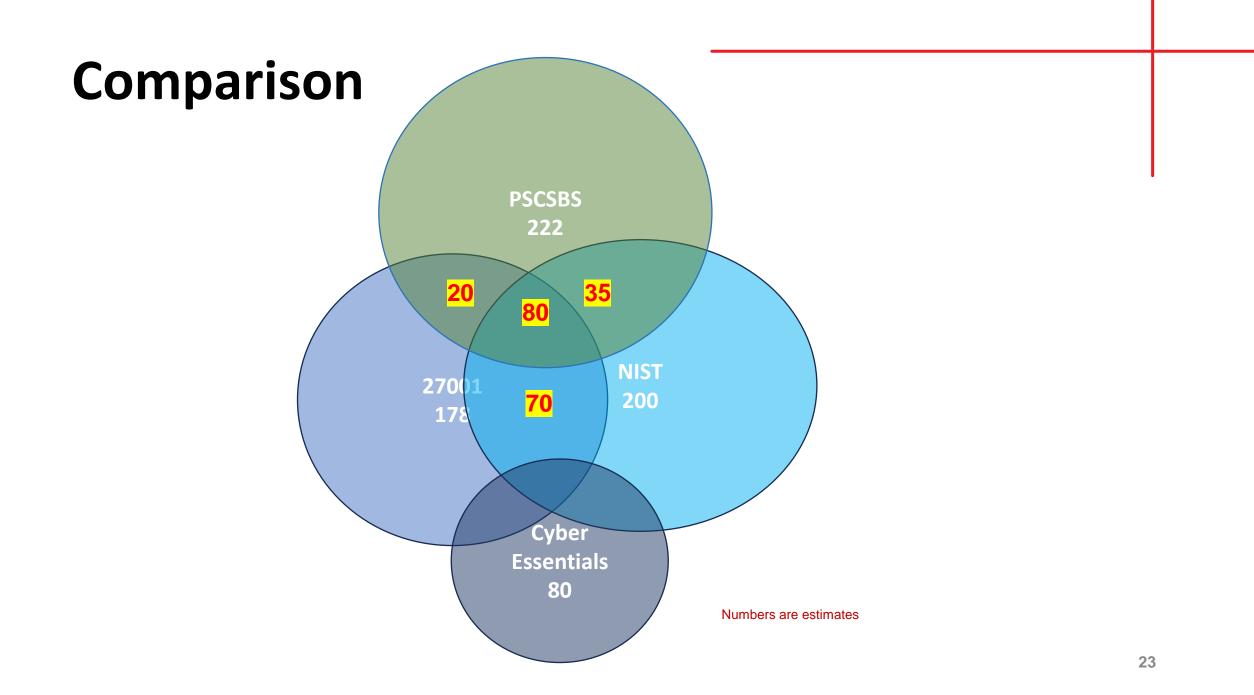


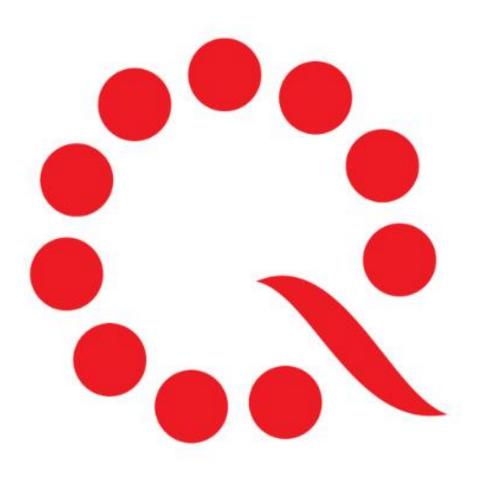


What's in it

- Comprises 5 Technical Control Themes
 - > 35 High Level Requirements
 - > 80 Detail requirements
- Cyber Essentials Certification based on Questionnaire
- Cyber Essentials Plus Certification
- Cyber Essentials Readiness Toolkit with links to guidance







Questions ?

gjoyce@calqrisk.com

Linkedin.com/company/calqrisk Twitter.com/calqrisk CalQRisk

