



CYBER STANDARDS DOCUMENT

NCSP Vulnerability Management

ABSTRACT:

This standard supports the policy set out in the National Community Security Policy, providing requirements for those designing, building and running IT services, managing threats and vulnerabilities within PDS and policing systems.

Appendix 1

Further requirement clarification for threat intelligence requirements.

ISSUED	February 2025
PLANNED REVIEW DATE	February 2026
DISTRIBUTION	Community Security Policy Framework Members

POLICY VALIDITY STATEMENT

This standard is due for review on the date shown above. After this date, this document may become invalid.

Cyber Standard users should ensure that they are consulting the currently valid version of the documentation.





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Community Security Policy Commitment

National Policing and its community members recognise that threats to policing information assets present significant risk to policing operations. National Policing and its community members are committed to managing information security and risk and maintaining an appropriate response to current and emerging threats, as an enabling mechanism for policing to achieve its operational objectives whilst preserving life, property, and civil liberties.

This standard in conjunction with the National Policing Community Security Policy Framework and associated documents sets out National Policing requirements threats and vulnerability management.

Introduction

Vulnerabilities are defects that weaken systems. All modern software contains vulnerabilities; either software defects that require patches or configuration issues that require administrative activity to resolve. These vulnerabilities must be addressed in a timely manner, to avoid disruption to organisation's operation and to preserve the confidentiality, integrity and availability of data and systems.

Vulnerability management is the lifecycle process that helps organisations identify, assess, prioritise, and minimise vulnerabilities in their system. Ultimately, the goal of vulnerability management is to reduce the risks posed by vulnerabilities by using techniques such as patching, hardening, and configuration management. This helps to ensure security while limiting risks that could potentially be exploited by malicious users.

This standard is aligned with the National Policing Cyber Security Strategy, objectives and outcomes have been derived directly from the Government Cyber Security Strategy 2022-2030 and adapted, where appropriate, for policing. Strategy supports wider work to ensure that policing is prepared and able to face current, new, and emerging threats from criminals and cyber incidents. The five objectives of the strategy are as follows,

- Managing information security risk.
- Protecting against cyber-attacks.
- Detecting cyber security events.
- Minimising the impact of cyber security incidents.
- Developing the right cyber security skill, knowledge, and culture.

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For Vulnerability Management to be effective, it must be a continuous process. New vulnerabilities are consistently identified, security risks evolve, threat landscapes shift, and both risk appetites and business priorities are subject to change. Additionally, software and systems are frequently updated or replaced. This dynamic environment demands ongoing discovery of new or modified assets, vigilant monitoring of emerging vulnerabilities, and continual assessment and reprioritisation of threats, alongside effective reporting of progress. Consequently, effective Vulnerability Management involves a continuous process composed of a lifecycle consisting of strongly interdependent phases:

- Asset discovery continuous process of identifying and cataloguing all the digital assets and creating an inventory.
- **Vulnerability discovery** continuous and systematic approach to identify and uncover vulnerabilities within systems, applications, and networks.
- Risk prioritisation and consolidation continuous and systematic process of determining the
 order in which vulnerabilities should be addressed, based on their potential business impact,
 severity, ease and likelihood of exploitation, and other factors.
- **Communication** collaboration and communication between technology teams and business stakeholders is a vital component of a successful VM service.
- **Risk mitigation** prioritised application of updates, considering prior testing of patches, available patch windows, and the potential impact of delay in patching.

COMMUNICATION S ASSET DISCOVERY VULNERABILITY DISCOVERY

RISK PRIORITISATION

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Owner

National Chief Information Security Officer (NCISO).

<u>Purpose</u>

The purpose of this standard is to support the policy set out in the National Community Security Policy, providing requirements for those designing, building and running IT services and managing vulnerabilities within PDS & policing systems. This standard sets out the requirement to identify and address technical vulnerabilities in a timely and effective manner to reduce exposure to the risk of them being exploited, thereby reducing the risk of serious security breaches.

Furthermore, the requirements detailed in this standard are aligned with the following industry-standard frameworks and guidance:

- ISO 27002:2022
- CIS Controls
- NIST Cyber Security Framework
- Information Security Forum (ISF) Statement of Good Practice (SoGP)
- OWASP Vulnerability Management Guide (OVMG)

Audience

This standard is aimed at:

- Staff across PDS & policing to any person who builds & implements or maintains IT systems, either on behalf of National policing or at a local Force level,
- IT System managers, administrators and those who have escalated privileges to provide administrative functions.
- Information & cyber risk practitioners and managers.
- Information Asset Owners (IAOs), Platform Asset Owners (PAOs) and Senior Information Risk Owners (SIROs.)
- Suppliers acting as IT service providers or developing products or services for PDS or policing.
- Auditors providing assurance services to PDS or policing.

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Scope

- 1. This standard is to cover systems handling data within the OFFICIAL tier including OFFICAL-SENSITIVE special handling caveat of the Government Security Classification Policy (GSCP). National and local policing IT systems, applications, or service implementations falling within this category will be subject to the requirements specified within this security standard. The requirements will be applied to new and existing installations.
- 2. The security control requirements laid out in this standard are vendor agnostic and applicable for all IT systems, applications, or service implementations that are provisioned for policing community of trust use.

Requirements

The requirements to deliver effective vulnerability management are described in the table below:

Reference	Minimum requirement	Control reference	Compliance Metric
1	Conduct continuous asset discovery	ISF ISOGP	Validate the asset discovery
	exercises to identify assets, understand	AM1.1	process and assess the
	their business context, and analyse the	AM1.2	implementation of Asset Register
	results of scans or tests. Use these	AM1.3	Accuracy, Ownership
	exercises to maintain visibility of the		Assignment, Discovery and
	organisational asset landscape and	NIST CSF	Verification, as well as Criticality
	apply appropriate security measures.	2.0	and Sensitivity measures.
	Technology assets include all software,	ID.AM-01	
	datasets, networks, servers, endpoint	ID.AM-02	
	devices and peripherals. This also	ID.AM-04	
	includes infrastructure, platform &	ID.AM-05	
	software as a service (laaS, PaaS &	ID.AM-08	
	SaaS) infrastructure and DevSecOps		
	environments.	ISO	
		27002:2022	
	Record security-related details about	5.2	
	assets, including hardware, software,	5.9	
	and information, in accurate and up-to-		
	date asset registers. Review these	CIS V8	
	registers regularly and promptly	1.1	
	investigate and resolve any	2.1	
	discrepancies.	2.4	

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Reference	Minimum requirement	Control reference	Compliance Metric
	Assign asset owners to take responsibility for managing and protecting assets throughout their entire lifecycle. Ensure organisation classify, maintain, and safeguard assets according to their criticality and sensitivity.		
	Linked Standards		
2	Physical Asset Management A process should be implemented to ensure the prompt identification, investigation, and resolution of technical vulnerabilities. Perform regular (automated where possible) vulnerability scans across all identified assets to detect known vulnerabilities. Evaluate information risk by analysing threats, threat events, vulnerabilities, existing controls, asset's business context and their potential impact on business operations.	ISF ISOGP TP2.1 IR2.4 AS2.1 NIST CSF 2.0 ID.RA-01 DE.CM-06 DE.CM-09 ID.RA-05 ISO 27002:2022 8.8 8.18 5.35 CIS V8 7.1 7.5 7.6	Record of documented processes for identification, investigation and resolution of vulnerabilities Records of regular scans across IT assets Records of ITHCs audit reports, penetration test results and vulnerability assessments.

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Reference	Minimum requirement	Control	Compliance Metric
		reference	
3	A formally approved threat intelligence	ISF ISOGP	Documented evidence of
	lifecycle must be established,	SE1.2	vulnerability threat feeds and
	underpinned by a specialised threat	SE1.3	reviews.
	intelligence team and appropriate	IR2.3	
	technologies. Its purpose is to provide	SM2.2	Records of communicating threat
	comprehensive situational awareness,		intelligence, decisions, actions,
	thereby empowering well-informed	NIST CSF	reviews.
	decisions and effective actions in the	ID.RA-02	
	management of vulnerability risk.	ID.RA-03	
		ID.RA-04	
	A prioritised set of requirements	DE.AE-07	
	should be established to guide the		
	creation of threat intelligence,	ISO	
	addressing the necessary needs of the	27002:2022	
	organisation.	5.7	
	Note: Detailed Threat process is	CIS V8	
	covered in Appendix 1	13.1	
4	Vulnerabilities identified should be	ISF ISOGP	Documented evidence the
	prioritised based on the context of	SE1.2	organisation has a severity rating
	assets criticality for the organisations	SE1.3	system and process for
	business, exploit complexity, asset	IR2.3	prioritising the order
	exposure (Internal/External)	SM2.2	vulnerabilities are mitigated.
	vulnerabilities, and threat intelligence,	TP2.1	
	ensuring continuous assessment to		
	effectively address emerging risks.	NIST CSF	
		ID.RA-01	
	Establish and maintain a severity rating	ID.RA-02	
	system to support prioritisation, taking	ID.RA-03	
	into account the criticality of assets to	ID.RA-04	
	the business, as well as the associated	DE.AE.07	
	threats, exploitability, and		
	vulnerabilities of those assets.	ISO	
		27002:2022	
	Note: See further information section	5.7	
	for prioritisation and handling		
	exceptions	CIS V8	
		13.1	

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<u> </u>	Control	Compliance Metric
	reference	
A formal process must be established	ISF ISOGP	Reporting process to the
and maintained to receive and address	TP2.2	stakeholders, who is responsible
reports of vulnerabilities, including a	SM1.1	for handling vulnerability
clear mechanism for external entities		reports, a process for intake,
to report.	NIST CSF	assignment, remediation,
	ID.RA-08	remediation testing, and a
This process should encompass a	PR.PS-01	vulnerability tracking system.
vulnerability handling policy that	PR.PS-02	Records of time to respond and
defines the reporting procedure,	GV.PO-02	time to fix.
designates responsibility for managing		Operational Level Agreements
vulnerability reports, and outlines steps	ISO	for remediation.
for intake, assignment, remediation,	27002:2022	
and remediation testing.	8.8	
Additionally the constant of the conference of t	616.740	
	16.2	
•		IAO/SIRO/PAO receives and
_		reviews monthly vulnerability
-		reports to ensure all
_	IR2.6.8	vulnerabilities are mitigated
accepted risks.		within expected timeframes or
		risk accepted and documented.
Review patching		
	PR.PS-02	
exceptions from patches being applied.		
Exceptions must be reviewed in regular	27002:2022	
interval	8.8	
Note : See further information section	CIS V8	
	7.4	
-	and maintained to receive and address reports of vulnerabilities, including a clear mechanism for external entities to report. This process should encompass a vulnerability handling policy that defines the reporting procedure, designates responsibility for managing vulnerability reports, and outlines steps for intake, assignment, remediation, and remediation testing. Additionally, the process should specify expected response times and timelines for resolving identified vulnerabilities. Current and newly identified vulnerabilities are mitigated with effective prioritisation for the organisation's assets or documented as accepted risks. Review patching The patch management process should include conditions for temporary exceptions from patches being applied. Exceptions must be reviewed in regular interval	A formal process must be established and maintained to receive and address reports of vulnerabilities, including a clear mechanism for external entities to report. This process should encompass a vulnerability handling policy that defines the reporting procedure, designates responsibility for managing vulnerability reports, and outlines steps for intake, assignment, remediation, and remediation testing. Additionally, the process should specify expected response times and timelines for resolving identified vulnerabilities. Current and newly identified vulnerabilities. Current and newly identified vulnerabilities. Current and newly identified organisation's assets or documented as accepted risks. Review patching The patch management process should include conditions for temporary exceptions from patches being applied. Exceptions must be reviewed in regular interval Note: See further information section for handling exceptions CIS V8 16.2 185 ISOGP 27002:2022 182.6.7 1R2.6.8 1R2.6.8 PR.PS-01 PR.PS-02 1R2.6.9 1R2.6.9 1R2.6.9 1R2.6.9 1R2.6.8 CIS V8 PR.PS-01 PR.PS-02 27002:2022 8.8

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Reference	Minimum requirement	Control reference	Compliance Metric
7	Handling unsupported / obsolete	ISF ISOGP	Corporate risk register (for
	systems or applications:	IR1	national systems – Project risk
	Establish a clear management plan,	IR2.3	register).
	including tactical mitigations and	IR2.4	
	timeline for the decommissioning,	IR2.5	Management plan to address.
	replacement or upgrade of obsolete		
	systems.	NIST CSF	
		GV.RM-01	
	All risks should be recorded on the risk	ID.RA-04	
	register. Potential impacts and	ID.RA-06	
	likelihoods of threats exploiting		
	vulnerabilities are identified and		
	recorded		
	Risk responses are chosen, prioritised,		
	planned, tracked, and communicated		
	See also		
	National Information Security		
	Risk Management Framework		

Further information

Requirement 4 : Vulnerability Prioritisation

Prioritising the remediation of vulnerabilities should be based on factors such as impact, severity, and exploit complexity. The decision to address or accept a vulnerability is fundamentally a business decision, and each organisation must balance this against its own risk appetite. Guidance, such as the National Police Information Security Risk Management Framework, can serve as a useful benchmark for making these decisions. Additionally, the Nationally available threat intelligence provides regular threat intelligence updates, which can inform and enhance the prioritisation process.

Effective vulnerability prioritisation can be achieved by integrating both vulnerability and asset risk ratings, which together provide a comprehensive view for informed decision-making. Vulnerability risk rating focuses on assessing threats to each asset, with added contextual components enhancing rating precision. This includes the inherent vulnerability risk rating, often guided by the Common Vulnerability Scoring System (CVSS) score, active threat intelligence tracking the exploitation of vulnerabilities Exploit Prediction

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Scoring System (EPSS), and advanced data analytics that leverage machine learning to predict vulnerability risks.

On the other hand, asset risk rating defines the tangible business impact should an asset be exploited. This includes classifying data (such as PCI, PII, and confidential information) to assess sensitivity, evaluating existing mitigation controls like Endpoint Detection and Response (EDR) and Web Application Firewalls (WAF), and considering architecture risks based on asset exposure, whether external, internal, or APIs. Together, these factors allow for more actionable prioritisation, as they not only focus on vulnerability severity but also account for the business impact, active threats, and potential risk mitigations.

Requirement 6: Handling exceptions

When handling exceptions in vulnerability management, it is crucial to adopt structured best practices to ensure that risk is managed effectively without leaving critical gaps. Here are best practices for handling exceptions:

1. Exception Request Process:

- Establish a process for requesting, reviewing, and approving exceptions. This should involve detailed documentation of why a vulnerability is not being remediated, including business justifications, risk assessments, and compensating controls in place.
- Exception requests should be reviewed by a cross-functional team, including stakeholders from security, IT, and business units.

2. Risk-Based Justification:

- Exceptions should only be granted after a thorough risk assessment. Use exploit complexity to the asset environment, EPSS and CVSS scores to justify the risk level, ensuring that decisions are based on the likelihood of exploitation, impact, and exploit complexity.
- Document the business impact and align it with the organisation's risk appetite. For instance, a low-risk vulnerability with a low EPSS score may be more acceptable than a critical vulnerability with a high EPSS score.

3. Compensating Controls:

- When granting exceptions, consider implementing compensating controls to mitigate risk.
- Document these controls and regularly review their effectiveness to ensure they provide adequate protection.

4. Time-Bound Exceptions:

• Exceptions should not be open-ended. Set time limits for each exception, with a predefined review period. This ensures that vulnerabilities are reassessed regularly as the threat landscape evolves or new exploit information becomes available (e.g., updated EPSS scores).

5. Continuous Monitoring:

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• Continuously monitor vulnerabilities under exception. As exploitability predictions change over time, particularly if EPSS scores increase, revisit the decision to defer remediation.

6. Documentation and Accountability:

- Maintain thorough documentation of all exceptions, including justification, risk assessments, compensating controls, and expiration dates. This ensures accountability and enables security teams to demonstrate compliance with internal and regulatory policies.
- Make these records available for internal audits and to ensure stakeholders are aware of outstanding risks.

7. Regular Reassessment:

- Exceptions should be regularly reassessed based on changes in the business environment, threat landscape, or vulnerability information. If the EPSS score increases or new exploits are discovered, security teams should reconsider whether the exception is still valid.
- Use this opportunity to review the organisation's risk posture and decide whether remediation is now necessary.

8. Alignment with Risk Appetite:

• Ensure that exception handling aligns with the organisation's overall risk appetite, as determined by frameworks like the National Police Information Security Risk Management Framework. IAO/SIRO/PAO play a critical role in ensuring that exceptions do not introduce unacceptable risks and that decisions around exceptions are consistent with the organisation's risk tolerance.

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Communication approach

This document will be communicated as follows:

- Internal peer review by the members of the National Cyber Policy & Standards Working Group (NCPSWG), which includes PDS and representatives from participating forces.
- Presentation to the National Cyber Policy & Standards Board (NCPSB) for approval.
- Formal publication and external distribution to PDS community, police forces and associated bodies.

This standard should be socialised with IT teams to help complete an initial gap analysis which can inform any implementation plan. This implementation plan can be shared with your Force SIRO / Security Management Forum. Consideration should also be given to raising awareness amongst Force personnel of the implementation of this standard where it may affect them.

Measurables generated by adopting this standard can also form part of regular cyber management reporting.

Review Cycle

This standard will be reviewed at least annually (from the date of publication) and following any major change to Information Assurance (IA) strategy, membership of the community, or an identified major change to the cyber threat landscape. This ensures IA requirements are reviewed and that the standard continues to meet the objectives and strategies of the police service.

Document Compliance Requirements

(Adapt according to Force or PDS Policy needs.)

Equality Impact Assessment

(Adapt according to Force or PDS Policy needs.)

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Appendix 1

Further requirement clarification for threat intelligence requirements.

Reference	Minimum requirement	Control reference	Compliance Metric
1	Threat Intelligence - Each policing		NMC Cyber Liaison
	community member, PDS, Partner	ISF ISOGP	Officers can confirm if
	and 3rd party supplier should have a	SG1.2	cyber incident response
	process in place to act with the	SE1.2	plans have been
	nationally produced intelligence for	SE1.3	reviewed and / or
	cyber security which can effectively	IR2.3	tested.
	create, process, and manage threat	SM2.2	
	intelligence.		
		NIST CSF 2.0	Artefacts produced by
	Threat intelligence utilised and	ID.RA-02	these requirement
	created by policing should be:	ID.RA-01	might include defined
	 relevant 	ID.RA-03	processes, a list of
	insightful	ID.RA-04	sources, threat
	 contextual 	DE.AE-07	assessments, reports.
	 actionable 		
2	Process - The threat intelligence	ISO 27002:2022	
	capability should be supported by a	5.7	Records of
	documented intelligence cycle,		communicating threat
	which includes:	CIS V8	intelligence, decisions,
	a prioritised set of	13.1	actions, reviews.
	requirements to direct the		
	production of threat		
	intelligence.		
	identified information		
	sources.		
	collection of relevant		
	information from selected		
	sources		
	 processing information to 		
	prepare it for analysis.		
	 conducting analysis of 		
	information to produce		
	threat intelligence.		

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Reference	Minimum requirement	Control reference	Compliance Metric
	 communicating threat intelligence clearly and concisely using threat intelligence to inform decisions related to information risk. taking action to implement the decisions made. reviewing and improving the threat intelligence capability. 		
3	Collection - Information relating to potential risks and/or adversarial attacks should be collected from both internal and external sources: Internal: • event logs from infrastructure and a security information and event management (SIEM) system • alerts from security solutions • dedicated teams that perform information security-related activities External:		Evidence of log /alert collections, analysis, reports.
	 trusted threat information providers or advisors government agencies or similar publicly available information 		List of sources, trusted advisors, agencies worked with.
4	Prioritisation - The prioritised requirements should focus on providing threat intelligence with the organisation's specific needs and strategic objectives. This should: • provide an early warning system to identify threats		Threat assessments reports, early warning reports, vulnerability assessments, analysis of tactics, techniques and procedures.

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Reference	Minimum requirement	Control reference	Compliance Metric
• • • • • • • • • •	that are likely to target the organisation. determine the motivation, capabilities and commitment of identified threats and the extent to which the organisation is at risk of a targeted attack. identify threat events likely to be used to attack the organisation. demonstrate how information, gathered during reconnaissance, could be used by attackers. determine the prevalence of threat events used at different stages of the cyberattack chain. identify technical vulnerabilities in operating systems, applications, and other software, which could be exploited to perform attacks on the organisation.		
5	Technology - The intelligence cycle should be supported by: • analytical tools, such as threat intelligence platforms (TIPs), to support the production and analysis of threat intelligence.		Suite of tools/ sources/ partners.

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Reference	Minimum requirement	Control reference	Compliance Metric
	 collaboration and the sharing of information with approved partners 		
6	Decision making - There should be 3 layers of threat intelligence across policing: • Strategic Threat Intelligence: high level information about the threat landscape • Tactical Threat Intelligence: intelligence on tools, techniques, and attack methodologies • Operational Threat Intelligence on specific attacks and indicators		Defined process including documented decision making.

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Document Location

PDS - National Policing Policies & Standards

Revision History

Version	Author	Description	Date
0.1	PDS Cyber	Initial version	09/11/22
0.2	PDS Cyber	Internal review updates	25/11/22
0.3	PDS Cyber	Updated and circulated to PDS SMEs	16/12/22
0.4	PDS Cyber	Rebranded to NPCC PDS template	02/02/22
0.5	PDS Cyber	Updated following NCPSWG comments	27/04/23
2.0	PDS Cyber	Rebranded to NPCC PDS template and reworked based on National Policing Cyber Security Strategy	03/12/24

Approvals

Version	Name	Role	Date
1.0	National Cyber Policy & Standards Board	National authority for cyber standards	30/11/23
2.0	National Cyber Policy & Standards Board	National authority for cyber standards	06/02/25

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Document References

Document Name	Version	Date
National Policing Cyber Security Strategy		2024
ISF - Standard of Good Practice (for Information Security)	v2024	03/2024
ISO 27002:2022 - Information security, Cybersecurity and privacy protection – Information security controls	v2022	02/2022
CIS Controls	v8.1	05/2021
NIST Cyber Security Framework	v1.1	04/2018
CSA Cloud Controls Matrix	v4	01/2021
OWASP Vulnerability Management Guide (OVMG)	June 2020	06/2020
ISF Vulnerability Management Briefing Paper 2023	V1	2023
10 Steps to Cyber Security - NCSC.GOV.UK	Web Page	05/2021
National Police Information Security Risk Management Framework	V1	

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