Security Standard – Security Patching (SS-033)

Chief Security Office

Date: 07/12/2022



Version 2.0 Page 1 of 17

This Security Patching Security Standard is part of a suite of standards, designed to promote consistency across the Department for Work and Pensions (DWP), and supplier base with regards to the implementation and management of security controls. For the purposes of this standard, the term DWP and Authority are used interchangeably.

Technical security standards form part of the DWP Digital Blueprint which is a living body of security principles, architectural patterns, code of practice, practices and radars, that aim to support Product Delivery Units (PDUs) and suppliers in delivering the DWP and HMG Digital Strategy. Security standards and policies considered appropriate for public viewing are published here:

https://www.gov.uk/government/publications/dwp-procurement-security-policies-and-standards

Technical security standards cross-refer to each other where needed, so can be confidently used together. They contain both mandatory and advisory elements, described in consistent language (see table below).

Table 1 – Terms

Term	Intention
must	denotes a requirement: a mandatory element.
should	should denotes a recommendation: an advisory element.
may	denotes approval.
might	denotes a possibility.
can	denotes both capability and possibility.
is/are	is/are denotes a description.

Version 2.0 Page 2 of 17

1. Tab	le of Contents	
1.	Table of Contents	3
2.	Revision history	4
3.	Approval history	5
4.	Compliance	5
5.	Exceptions Process	5
6.	Audience	5
7.	Accessibility statement	5
8.	Introduction	6
9.	Purpose	7
10.	Scope	7
11.	Minimum Technical Security Measures	7
	ecurity Patch Control Requirements	
	nreat Intelligence	
	atch Assessment	
	atch Testing	
	atch Delivery	
	eporting	
	pendices	13
	x A. Security Outcomes	13
	x B. Internal references x C. External references	14
	x D. Abbreviations	15
	x E. Glossary	16
	x F. Accessibility artefacts	17
дропал	KT. Accessionity discincts	• • • • • • • • • • • • • • • • • • • •
Table 1 –	Terms	2
Table 2 –	List of Security Outcomes Mapping	13
	Internal References	14
Table 4 –	External References	14
Table 5 –	Abbreviations	15
Table 6 –	Glossary	16

Version 2.0 Page 3 of 17

2. Revision history

Revision h Version	Author	Description	Date
1.0		First published version	16/12/2019
1.1		Minor amendments in sections; 10.1.1 to cover automated patching 10.5.2 to cover both automated and manual patches 15. definition of endpoints.	26/08/2020
1.2		Added references to automated patching and immutable infrastructure in sections 8.3; 10.3.2; 10.3.3; 10.3.5; 10.4.1; 10.5.1; 10.5.2; Minor amendments in sections; 10.1.1 Greater emphasis on automated patching 10.1.3 Added applicability to manual patches 10.1.6 Added reference to evergreening modern infrastructure 10.2.3 Criticality/Timeframe amendments 10.2.4 Updated for zero day exploits 10.2.5 Further detail on dealing with emergency patches 10.3.2 Risk assessment, triage function and review requirements added 10.3.4 Specified that entitlement refers to manual patching 10.4.4 Added reference to Blue/Green deployment model. 10.5.4 Added reference to application updates 10.6.2 Added rationale for scanning Definition of terms updated Glossary updated	15/01/2021
2.0		Added NIST CSF references; Introduction – Added references to CIS v8 Controls Set; further information added regarding risk assessment and risk ownership. Scope – Clarification added to highlight that patching is only one component of vulnerability management. 11.1.4 Clarified application of security patches for new connections. 11.1.7 Differentiate between functional and security patches for delivery 11.2.2 Patch criticality changed to vulnerability; added a statement about assessing exploitability in addition to criticality. 11.2.3 Added statements about mitigating vulnerabilities to within risk appetite; added reference to medium vulnerabilities 11.6.4 Requirements added for coverage of reporting.	07/12/2022

Version 2.0 Page 4 of 17

3. Approval history

Version	Name	Role	Date
1.0		Chief Security Officer	16/12/2019
1.1		n/a	26/08/2020
1.2		n/a	15/01/2021
2.0		Chief Security Officer	07/12/2022

This document will be reviewed for continued completeness, relevancy, and accuracy within 1 year of being granted "final" status, and at year intervals thereafter.

4. Compliance

Compliance with this standard will be verified through various methods, including but not limited to;

- controls tests performed by first-line teams and by 2nd line activities (e.g. security testing teams)
- security assurance activities to ensure that Architectural Design and delivery are appropriate and aligned to applicable Authority Security Standards. [See Security Assurance Strategy – Ref. D].
- independent external audit

5. Exceptions Process

In this document the term "must" is used in bold letters to indicate a mandatory security measure. Any exceptions to the application of this standard, or where specific security measures cannot be adhered to, must be presented to the Authority. This must be carried out prior to deployment and managed through the design caveats or exception process.

Such exception requests will invoke the Risk Management process to clarify the potential impact of any deviation to the configuration detailed in this standard.

Exceptions to the standard **must** be maintained on a risk register for accountability, traceability, and security governance reporting to senior management.

6. Audience

This document is intended for, but not necessarily limited to, technical architects, technical engineers, developers, security teams, project teams, including suppliers engaged in the design, development, implementation and operation of systems, services and applications that manager security patching.

7. Accessibility statement

Users of this standard **must** consider accessibility design requirements as appropriate. Further information on accessibility standards can be found in Appendix F.

Version 2.0 Page 5 of 17

8. Introduction

This standard defines the minimum technical security measures that **must** be implemented to secure Authority systems via security patching. It is also aligned to the overarching Technical Vulnerability Management Policy, [Ref. B] which details management of all technical vulnerabilities including patching.

As this standard only provides minimum measures, they **should** be exceeded as appropriate depending on the threats and risks that need to be addressed, the sensitivity of the data, and in keeping with latest security enhancements.

The security measures are derived from industry best practice i.e. guidance published by NIST, CIS and OWASP (see Appendix C for full list external references) and support the implementation of appropriate security controls as selected by the Authority or our third party providers, such as the CIS Critical Security Controls v8 controls set. [see External References]

Every effort has been made to ensure the security measures are vendor and technology agnostic as far as possible; this is to ensure greater applicability of the standard regardless of the technologies used. The security measures **may** be implemented in different ways, depending on the technology choices and business requirements in question.

The aim of this standard is to:

- ensure that patching requirements are clearly articulated and can be implemented consistently across the Authority and by third party providers where applicable.
- mitigate risks from common threats and vulnerabilities to an acceptable level for operation.
- Ensure that risk assessments include consideration of asset value and business criticality, with priority given to vulnerabilities that are exploitable both now, and in the future if threat intelligence indicates this.
- Ensure that identified risks are owned and managed by appropriate Risk Owners.
- support the implementation of security controls that enable the achievement of security outcomes described in Appendix A.

Technical security standards ultimately support the achievement of security outcomes sought by the Authority. They set the expectations for what needs to be done to achieve them and why, and provide an objective, measurable statement of the Authority's existing security posture in a number of important areas. The outcomes are based on the official NIST sub-categories where possible to ensure close alignment with the NIST Cyber Security Framework (CSF), and are enabled by the implementation of controls from the CIS Critical Security Controls v8 controls set. [see External References]. Those relevant to the subject of each standard can be found in Appendix A of every technical security standard.

Version 2.0 Page 6 of 17

9. Purpose

The purpose of this standard is to ensure systems and services operated in the Authority or on behalf of the Authority are updated, maintained and managed consistently to protect against typical threats at the OFFICIAL tier.

This standard also serves to provide a baseline in which assurance and compliance activities can be carried out, so that the Authority can be assured that security obligations are being met or exceeded.

10. Scope

This standard applies to all security patching within the Authority and supplier base (contracted third party providers), for the purposes of delivering applications and services that handle Authority data. It also supports the Authority's Technical Vulnerability Management Policy [Ref. B] which drives the requirements contained in this standard. It should however be noted that security patching is only one component of vulnerability management – the related vulnerability management strategy and policy describe additional vulnerabilities around system misconfiguration and physical, personnel or process weaknesses that could be exploited. Going forwards, the next review of this standard will consider either broadening the scope to include the vulnerabilities above, or by creating additional standards to cover these.

It is also important to highlight that security patching is only one way to address vulnerabilities, and that reducing the overall risk to the Authority of vulnerabilities being exploited may be achieved through deployment of other controls, as part of effective risk management, which is highlighted in section 11.2.3.

This standard also applies to immutable infrastructure, but via updates and upgrades rather than patching.

Any queries regarding the security measures laid out in this standard **should** be sent to the Authority.

11. Minimum Technical Security Measures

The following section defines the minimum security measures that **must** be implemented to achieve the security outcomes described in Appendix A. For ease of reference, the official NIST sub-category ID is provided against each security measure e.g. PR.PT-3, to indicate which outcome(s) it contributes towards. Refer to Appendix A for full description of outcomes.

Version 2.0 Page 7 of 17

11.1 Security Patch Control Requirements

Reference	Minimum Technical Security Measures	NIST ID
11.1.1	Patching should be automated wherever possible and should utilise dedicated service accounts with elevated privileges where appropriate. Manual patching MUST only be conducted by users with enhanced access and/or privileged users. (SS-001 – pt 2 Privileged User Access Security Standard). [Ref. C]	PR.AC-4 PR.IP-3 PR.MA-1
11.1.2	Standard business users MUST NOT have the ability to install unauthorised patches on any departmental end points.	PR.AC-4
11.1.3	Any manually applied patches found to have bypassed control mechanisms for installation MUST be subject to a formal review and uninstallation if deemed necessary.	PR.IP-3
11.1.4	Upon connection to the production network, all systems MUST have up to date security patches applied to software or applications that are in vendor support.	PR.IP-1
11.1.5	The patching and update process MUST ensure that both the offline (stored) and runtime virtual images are updated.	ID.AM-2 PR.IP-12 PR.MA-1
11.1.6	Patch levels MUST be maintained for the lifespan of the system. For modern infrastructure, this is achieved by 'evergreening' i.e. via continuous updates being applied.	ID.AM-2 PR.IP-1 PR.IP-3 PR.IP-12 PR.MA-1
11.1.7	Patches that only deliver functional change and do not fix a vulnerability MUST NOT be delivered as security patches, although can be delivered via the same mechanisms at the same time.	PR.IP-3 PR.MA-1 PR.IP-12

Version 2.0 Page 8 of 17

11.2 Threat Intelligence

Reference	Minimum Technical Security Measures	NIST ID
11.2.1	Threat intelligence feeds that detail system vulnerabilities MUST be collected at least weekly and reviewed from known, trusted third parties. These MUST be analysed and processed by a dedicated team and distributed to a relevant Triage Team. This should be delivered via a triage function as specified in NCSC guidance on vulnerability management.	ID.RA-2 ID.RA-3 ID.RA-5
11.2.2	Vulnerabilities MUST have a defined criticality using the latest <u>CVSS</u> or, where applicable, CWE scoring calculation, where these are available. Other tools may also be used to augment this information, e.g. to assess the exploitability of an individual vulnerability to aid prioritisation, but these MUST not be used as the sole source of information in assessing risk.	ID.RA-6
11.2.3	Where a security patch fixes a vulnerability that the CVSS or CWE score defines as 'critical', applications, systems and devices MUST be patched (or the vulnerability mitigated to a level where the residual risk is within appetite) within 14 days of an update being released. Where a security patch fixes a vulnerability that the CVSS or CWE score defines as 'high', applications, systems and devices MUST be patched (or the vulnerability mitigated to a level where the residual risk is within appetite) within 30 days of an update being released. Where a security patch fixes a vulnerability that the CVSS or CWE score defines as 'medium', applications, systems and devices MUST be patched (or the vulnerability mitigated to a level where the residual risk is within appetite) within 90 days of an update being released.	ID.RA-6 PR.IP-12 RS.AN-5 RS.MI-3
11.2.4	Where applicable, the Threat Intelligence functions may support the risk owner by providing advice on what mitigating actions can be taken to minimise the threat from zero-day exploits that do not have a patch available.	ID.RA-3 ID.RA-5 ID.RA-6 PR.IP-12

Version 2.0 Page 9 of 17

11.2.5	In exceptional circumstances, the Security and Data	ID.AM-5
	Protection function may advise that a patch needs	ID.RA-1
	to be implemented faster than those	ID.RA-3
	requirements outlined at para 11.2.3. That advice	PR.IP-12
	will be based on an assessment of the threat and	RS.AN-5
	the vulnerability in question. In such circumstances,	
	the response MUST be treated under the Security	
	Incident Management Policy as an Emergency	
	Patch.	

11.3 Patch Assessment

Reference	Minimum Technical Security Measures	NIST ID
11.3.1	All systems requiring vendor, or other authorised patches MUST be assessed.	ID.AM-1 ID.AM-2 ID.RA-1
11.3.2	Patching should be conducted as standard but where a risk to service delivery is identified an assessment is required that considers the risk of: • Not deploying the patch • The risk of implementing the patch (i.e. destabilising a system or business process). • The availability or lack of compensating security controls that may impact the CVSS score. This MUST be delivered through a 'vulnerability triage group', consisting of staff with knowledge of cyber security risk, business risk and IT estate management, or via a formal risk assessment. Where a decision is made not to fix the issue but to acknowledge it, a timeframe for reviewing this decision needs to be made, which should be no more than 3 months. This decision MUST be made by a suitable responsible person within the accountable business area.	ID.BE-4 ID.RA-1 ID.RA-4 ID.RA-5 PR.IP-12
11.3.3	A record of the decision to apply or reject manual patches, MUST be documented within the Risk Register defined by the Risk Assessment process. For automated patching via upgrades, a record of the reason for rejecting a product update must be maintained and reviewed on a regular basis, along with a risk assessment.	ID.RA-6 ID.RM-1

Version 2.0 Page 10 of 17

11.3.4	Entitlement to patch manually MUST be confirmed before applying a patch e.g. open source products that do not have a support package or service wrapper.	ID.AM-2
11.3.5	A record of all assets MUST be maintained along with their patch status, history, and next review date (which may be set as part of a regular, scheduled activity) where appropriate e.g. in a Configuration Management Database (CMDB), AWS Inventory Manager, dependency configuration files or equivalent. For automated patching via upgrades, a record of the reason for rejecting a product update must be maintained and reviewed on a regular basis, along with a risk assessment.	ID.AM-1 ID.AM-2

11.4 Patch Testing

Reference	Minimum Technical Security Measures	NIST ID
11.4.1	All patches MUST be tested in a suitable environment (meets live conditions) prior to being applied to the enterprise, wherever possible. This is also applicable to immutable infrastructure, which goes through a development environment and Continuous Integration pipelines. Where automated testing is employed, any remediation of vulnerabilities will follow the standard approach for software changes.	
11.4.2	Accountable parties MUST test the patch to check for compatibility and integration, and create a back-up or restore point, which can be managed via version control or container repositories where appropriate. This detail must be documented on a Risk Register and CMDB.	PR.IP-4 PR.IP-12
11.4.3	The patch becomes approved once testing has been concluded satisfactorily	PR.IP-3 PR.IP-12
11.4.4	Delivery of the approved patch across the estate MUST be in stages to reduce impact. The 'Blue/Green' deployment model can also be utilised to achieve this.	
11.4.5	Approved patches MUST be applied across the Enterprise in a timeframe based on their criticality (defined in the risk assessment).	ID.RA-4 ID.RA-5 ID.RA-6
11.4.6	Where testing is not feasible, this MUST be risk assessed and recorded on the Risk Register.	ID.RA-4 ID.RA-6

Version 2.0 Page 11 of 17

11.5 Patch Delivery

Reference	Minimum Technical Security Measures	
11.5.1	Where possible, accountable parties MUST automate patch deployment across end points. Immutable infrastructure is kept up to date continuously, via updates or upgrades, which achieve the same purpose as patching.	
11.5.2	All patches, both manual and automated, MUST be recorded. For automated patching via upgrades, a record of the reason for rejecting a product update must be maintained and reviewed on a regular basis, along with a risk assessment.	ID.RA-5 PR.IP-12 PR.MA-1
11.5.3	Where appropriate, accountable parties MUST patch systems and end points based on their criticality.	ID.AM-5
11.5.4	Where appropriate, accountable parties MUST ensure all patching is applied across the enterprise where necessary. This includes applying application updates or upgrades that include security updates.	

11.6 Reporting

Reference	Minimum Technical Security Measures	
11.6.1	When patches have been deployed, reporting MUST be run to confirm their deployment.	PR.IP-12 PR.MA-1 PR.PT-1
11.6.2	Automated scanning MUST be deployed to report patch status on a regular basis, to correlate current patch status against vulnerabilities.	DE.DP-2
11.6.3	Patches that have not been implemented MUST be reported to the system and risk owner who remains responsible for the exposure caused by the inability to patch.	ID.RM-1
11.6.4	Vulnerability/Patching status reporting MUST cover the entirety of the estate, and not just specific domains or environments.	ID.RA-1

Version 2.0 Page 12 of 17

12 Appendices

Appendix A. Security Outcomes

The minimum security measures defined in this standard contribute to the achievement of security outcomes described in the table below. For consistency, the official NIST Sub-category IDs have been carried through to the standards which can also be cross referenced against the CIS Critical Security Controls v8 controls set. [see External References]

Table 2 – List of Security Outcomes Mapping

Ref	Security Outcome (sub-category)	Related Security
		measure
ID.AM-1	Physical devices and systems within the organisation	11.3.1, 11.3.5
ID.AM-2	Software platforms and applications within the organization are inventoried.	11.1.5, 11.1.6, 11.3.1, 11.3.4, 11.3.5
ID.AM-5	Resources (e.g., hardware, devices, data and software) are prioritized based on their classification, criticality and business value.	11.2.5, 11.5.3
ID.BE-4	Dependencies and critical functions for delivery of critical services are established	11.3.2
ID.RA-1	Asset vulnerabilities are identified and documented	11.6.4, 11.2.5, 11.3.1, 11.3.2, 11.6.4
ID.RA-2	Threat and vulnerability information is received from information sharing forums and sources	11.1.4, 11.2.1
ID.RA-3	Threats, both internal and external, are identified and documented	11.2.1, 11.2.4, 11.2.5
ID.RA-4	Potential business impacts and likelihoods are identified	11.3.2, 11.4.5, 11.4.6
ID.RA-5	Threats, vulnerabilities, likelihoods, and impacts are used to determine risk	11.2.1, 11.2.4, 11.3.2, 11.4.5, 11.5.2
ID.RA-6	Risk responses are identified and prioritized.	11.2.2, 11.2.3, 11.2.4, 11.3.3, 11.4.5, 11.4.6
ID.RM-1	Risk Management processes are established, managed and agreed to by organisational stakeholders	11.3.3, 11.6.3
PR.AC-4	Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties.	11.1.1, 11.1.2
PR.DS-7	The developments and testing environments(s) are separate from the production environment	11.4.1
PR.IP-1	A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality.	11.1.4, 11.1.6

Version 2.0 Page 13 of 17

PR.IP-3	Configuration change control processes are in place.	11.1.3, 11.1.7, 11.4.3, 11.4.4
PR.IP-4	Backups of information are conducted, maintained, and tested.	11.4.2
PR.IP-12	A vulnerability management plan is developed and implemented.	11.1.5, 11.1.6, 11.1.7, 11.2.3, 11.2.4, 11.2.5, 11.3.2, 11.4.1, 11.4.2, 11.4.3, 11.4.4, 11.5.1, 11.5.2, 11.5.4, 11.6.1
PR.MA-1	Maintenance and repair of organizational assets are performed and logged, with approved and controlled tools.	11.1.1, 11.1.5, 11.1.7, 11.4.4, 11.5.1, 11.5.2, 11.5.4, 11.6.1
PR.PT-1	Audit/log records are determined, documented, implemented and reviewed in accordance with policy	11.6.1
DE.DP-2	Detection activities comply with all applicable requirements	11.6.2
RS.AN-5	Processes are established to receive, analyse and respond to vulnerabilities disclosed to the organization from internal and external sources (e.g. internal testing, security bulletins, or security researchers)	11.2.3, 11.2.5
RS.MI-3	Newly identified vulnerabilities are mitigated or documented as accepted risks	11.2.3

Appendix B. Internal references

Below, is a list of internal documents that **should** be read in conjunction with this standard.

Table 3 – Internal References

F	Ref	Document	Publicly
			Available*
1	Д	DWP Architectural Blueprint	No
E	В	Technical Vulnerability Management Policy	Yes
(С	SS-001 - pt 2 Privileged User Access Security	Yes
		Standard	

^{*}Requests to access non-publicly available documents **should** be made to the Authority Contracts/Supplier Manager.

Appendix C. External references

The following publications and guidance were considered in the development of this standard and **should** be referred to for further guidance.

Table 4 – External References

External Documents List	
CIS Critical Security Controls v8 controls set.	
NIST – Cyber security Framework – 2018-04-16	
NIST – 800-53 – Rev 5 – Security and Privacy Controls for Information	

Version 2.0 Page 14 of 17

Appendix D. Abbreviations *Table 5 – Abbreviations*

Abbreviation	Definition	Owner
CIS	Centre for Internet Security	Industry body
CMDB	Configuration Management Database	Industry term
CVSS	Common Vulnerability Scoring System - The Common Vulnerability Scoring System (CVSS) provides a way to capture the principal characteristics of a vulnerability and produce a numerical score reflecting its severity. The numerical score can then be translated into a qualitative representation (such as low, medium, high, and critical) to help organizations properly assess and prioritize their vulnerability management processes.	Industry term
CWE	The Common Weakness Scoring System (CWSS) provides a mechanism for prioritizing software weaknesses in a consistent, flexible, open manner. It is a collaborative, community-based effort that is addressing the needs of its stakeholders across government, academia, and industry.	Industry term
DDA	Digital Design Authority	Internal body
DWP	Department of Work and Pensions.	UK Government
GSCP	Government Security Classification Policy	UK Government
NIST	National Institute of Standards and Technology	US Government
NIST – CSF	National Institute of Standards and Technology – Cyber Security Framework	US Government
OS	Operating System	Industry term
OWASP	Open Web Application Security Project	Open source

Page 15 of 17 Version 2.0

Appendix E. Glossary Table 6 – Glossary

Term	Definition
Patch	In the context of this document, a Security Patch or Patch is any fix that remediates a vulnerability within the system. Patches that only update or make functional changes are out of scope of patching. Patches that make both functional and security changes are in the scope of this document. Immutable infrastructure is kept up to date continuously, via updates or upgrades, which achieve the same purpose as patching.
Emergency Patch	For the purposes of this document, these are typically out of cycle, irregular patches that have not yet been applied. They fix vulnerabilities that could have an enterprise wide impact where there is clear evidence they are being actively exploited in other organisations, or, where the threat is deemed imminent, it is believed existing compensating controls will not provide mitigation.
Authorised patch	A patch authorised by the Triage team which may or may not come from the vendor.
CVSS	Common Vulnerability Scoring System - The Common Vulnerability Scoring System (CVSS) provides a way to capture the principal characteristics of a vulnerability and produce a numerical score reflecting its severity. The numerical score can then be translated into a qualitative representation (such as low, medium, high, and critical) to help organizations properly assess and prioritize their vulnerability management processes.
CWE	The Common Weakness Scoring System (CWSS) provides a mechanism for prioritizing software weaknesses in a consistent, flexible, open manner. It is a collaborative, community-based effort that is addressing the needs of its stakeholders across government, academia, and industry.
End point	Servers, laptops, tablets, mobile phones, printers, multi- function devices, network device or other devices which connect to corporate networks.
IDS/ IPS	Intrusion Detection System/ Intrusion Prevention System.
ISM	Information Security Management.
Immutable Infrastructure	Immutable infrastructure is an approach to managing services and software deployments on IT resources wherein components are replaced rather than changed. An application or service is effectively rebuilt and redeployed each time any change occurs.

Page 16 of 17 Version 2.0

Blue/Green Deployment	Blue green deployment is an application release model that gradually transfers user traffic from a previous version of an app or microservice to a nearly identical new release. The old version can be called the blue environment while the new version can be known as the green environment. Once traffic is fully transferred from blue to green, blue can stand by in case of rollback or pulled from production and updated to become the template upon which the next update is made.
Evergreening	Evergreening refers to running services comprised of components that are always up to date. Evergreen IT encompasses not only the services at the user level, but all of the underlying infrastructures, whether on-site or outsourced.
Risk Register	DWP ESRM Risk Register (GRC).
Vendor	A vendor patch is an update to a program provided by a software vendor to fix a problem with the software. A patch is typically a small update that does not significantly change the functionality. Typically, patches are deployed to fix bugs that have been discovered in a program, especially security vulnerabilities. The term distinguishes patches from the vendor from unofficial patches from users.
Zero Day Exploits	A zero-day exploit is a vulnerability (weakness) in software. It is called Zero-day because it is exploited before the vulnerability fix is made available by the vendor.

Appendix F. Accessibility artefacts

A variety of accessibility guidance is available from the below URL, that includes:

https://www.gov.uk/guidance/guidance-and-tools-for-digital-accessibility

https://www.gov.uk/guidance/accessibility-requirements-for-public-sector-websites-and-apps

Version 2.0 Page 17 of 17