

TITLE: PASSWORD MANAGEMENT PROCEDURE

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This information can be made available in alternative formats, such as easy read or large print, and may be available in alternative languages, upon request. Please contact <u>sfh-tr.information.governance@nhs.net</u>.

1 INTRODUCTION/ BACKGROUND

Passwords are an important aspect of data security. They are the front line of protection for user accounts. A poorly chosen password may result in the compromise of the Trust's network. As such, all staff with access to Trust systems are responsible for taking the appropriate steps, as outlined below, to select, use and secure their passwords.

2 AIMS/ OBJECTIVES/ PURPOSE (including Related Trust Documents)

The purpose of this procedure is to raise awareness of the importance for the creation of strong passwords, the protection of those passwords, and the frequency of password change across all systems.

Attackers use a variety of techniques to discover passwords, exploiting a range of social and technical vulnerabilities.

These include:

- tricking someone into revealing their password via social engineering (including phishing and coercion)
- using the passwords leaked from data breaches to attack other systems where users have used the same password
- password spraying (using a small number of commonly-used passwords to access many accounts)
- brute-force attacks (the automated guessing of large numbers of passwords until the correct one is found)
- theft of a password hash file, where the hash can be broken to recover the original passwords
- 'shoulder surfing' (observing someone typing in their password)
- finding passwords which have been stored insecurely, such as sticky notes kept close to a device, or documents stored on devices
- manual password guessing (perhaps using personal information 'cribs' such as name, date of birth, or pet names)
- intercepting a password (or password hash) as it is transmitted over a network
- installing a keylogger to intercept passwords when they are entered into a device.

These techniques are widely available and documented on the internet, and many use automated tools requiring only moderate technical skills.

All IT systems should require users to have an individual username and password. Your password is your main protection against someone else using your account. The password is used to confirm the identity of the person using the system as the authorised user and acts as a barrier against someone else accessing unauthorised information.

Related Trust Documents

- Information Security Policy
- Information Asset Owner Framework
- Account Management and Access Policy
- Account Management Standard Operating Procedure

3 ROLES AND RESPONSIBILITIES

Chief Executive

The Chief Executive is the Accountable Officer with responsibility for ensuring overall Trust compliance with its statutory obligations. Implementation of, and compliance with this procedure is delegated to the Senior Information Risk Owner, Caldicott Guardian, Data Protection Officer, and members of the Information Governance Committee.

Senior Information Risk Owner (SIRO)

The Chief Financial Officer is responsible to the Chief Executive for Information Governance and is the designated Senior Information Risk Owner, who takes ownership of the Trust's information risk policy, acts as an advocate for information risk on the Board and provides written advice to the Chief Executive on the content of the Statement of Internal Control in regard to information risk. The Senior Information Risk Owner also reports annually to the Trust Board on Information Governance performance. The SIRO has overall responsibility delegated from the Chief Executive for ensuring that effective systems and processes are in place to deliver the Information Governance agenda.

Caldicott Guardian

The Caldicott Guardian is the 'conscience' of the organisation, providing a focal point for patient confidentiality, information sharing and advising on the options for lawful and ethical processing of information as required.

Data Protection Officer

The Data Protection Officer reports to the Caldicott Guardian and works with the Senior Information Risk Owner and the Caldicott Guardian to ensure appropriate use of personal information, and for maintaining the Trust's data protection notification to the Information Commissioner.

The Data Protection Officer has responsibility for ensuring:

- Information Governance incidents, e.g. data protection/confidentiality breaches, are promptly reported and investigated
- Data Protection Impact Assessments are completed for new/ changes to systems
- Rights of data subjects are upheld, including appropriate disclosures of personal data
- Information risks are effectively managed.

Information Asset Owners

Information Asset Owners have responsibility for providing assurance to the Senior Information Risk Owner that information, particularly personal information, is effectively managed within their Division/Department.

Information Asset Owners (IAOs) will:

- Promote effective information management in their Division/ Department
- Maintain a register of information assets, and regularly assesses risks to the asset
- Maintain a record of flows of personal identifiable information
- Ensure there is a legal basis for sharing/disclosing personal identifiable information
- Provide assurance to the SIRO, at least annually
- Complete training as necessary to ensure effectiveness in the role.

It is the responsibility of the Information Asset Owner to ensure the correct level of privileged access is given for the assets that they own.

Information Asset Administrators

Information Asset Administrators have responsibility for providing assurance to their IAO that information risk is managed effectively.

Information Asset Administrators (IAAs) will:

- Audit staff compliance with information handling standards
- Ensure that colleagues complete mandatory and recommended IG training
- Provide an IG update at team meetings to discuss areas of concern within their respective areas of work, whilst exchanging methods and good practice
- Serve as local records managers ensuring the accurate storage and retention of records and their content
- Directly support the implementation of IG within their team.
- Attend the IG working group.

Line Managers

Line managers are responsible for ensuring that all Divisional/ Departmental staff are made aware of the Information Governance policies and procedures and comply with them. They are also responsible for ensuring staff are released to attend mandatory annual data security training.

Information Governance (data security) Team

The data security team will provide expert advice and guidance to all staff on all elements of Information Governance. The team is responsible for:

- Developing, maintaining, and communicating data security policies and procedures
- Working with the Trust and other organisations to establish agreements on how information is to be shared

- Developing data security awareness and training programmes for staff ensuring compliance with Data Protection, Information Security, and other relevant legislation
- Providing support to the Caldicott Guardian and SIRO for Information Governance related issues.

Staff

It is important that every employee takes seriously, the use, protection and integrity of their own password/s or

any other system password/s which they may be privy to from time to time and to encourage, guide and inform staff wherever possible for those who are responsible for the supervision of others.

All Trust employees and anyone else working for The Trust (e.g. agency staff, honorary staff, management consultants etc.) who use and have access to Trust personal information must understand their responsibilities for data protection and confidentiality.

Contractors and agency staff and other third parties' staff are under instructions to report all incidents, their causes and resolving actions to their own line managers. The Trust reserves the right to audit the supplier's contractual responsibilities or to have those audits carried out by a third party.

4 **PROCEDURE DETAILS (including Flowcharts)**

4.1 How to avoid choosing obvious passwords

The National Cyber Security Centre recommends that passwords should be three random words¹. For example, CloudPenBag20 or CloudPenBag20!

Passwords should not be anything someone else could easily guess such as the names of your partner, children or pets, or your favourite holiday destination.

You could pick three things you can see around you or three words about your favourite book, music group, sport, film, hobby, or even a memorable day, though we wouldn't recommend using your wedding day. The three random words could be about anything, make sure they are easy for you to remember but hard for anyone else to guess.

4.2 How to choose a strong password

Choosing a password that is 'strong' will help to ensure that information is kept safe and secure.

Try to create passwords that can be easily remembered. You could choose a song and use the first letter from each word to form your password Eg 'If you're happy and you know it clap your hands' could become lyhaykicyh!! You could even replace the 'I' with a '1' and the 'a' with a '&' 1yh&yk1cyh!!

¹ <u>https://www.ncsc.gov.uk/blog-post/the-logic-behind-three-random-words</u>

Strong passwords have the following characteristics:

- Contain both upper- and lower-case letters (e.g., a-z, A-Z)
- Contain numbers and punctuation characters in addition to letters e.g., 0-9, !@#\$%^&*()_+|~-=\`{}[]:";'<>?,./
- Must be at least eight alphanumeric (combination of alphabetical and numerical characters) long.

A strong password should not:

- Spell a single word
- Spell a word with a number added to the beginning and/or the end
- Be based on any personal information such as user id, family name, pet, birthday, etc

Check your password strength: Password Check | Kaspersky²

4.3 Do not use common passwords

Never use the following personal details for your password:

- χ Current partner's name
- χ Child's name
- χ Other family members' name
- χ Pet's name
- χ Place of birth
- χ Favourite holiday
- χ Something related to your favourite sports team

4.4 Can I write my password down?

Yes, passwords can be written down but **must not** be stored with the account it relates to i.e., a word document with username and passwords must not be stored on a pc/laptop where you access systems or a smartcard with the pin number attached to it. Please note: if you can memorise passwords for key systems i.e., Windows, CareFlow, ESR, do not record them anywhere.

4.5 What about super users/system administrators?

- ensuring an effective movers/leavers process is in place
- automatically locking out inactive accounts
- monitoring logins for suspicious behaviour (such as unusual login times, logins using new devices)

² <u>https://password.kaspersky.com</u>

• encouraging users to report when something is suspicious

A record of staff having elevated, or administrator access rights will need to be maintained by the Information Asset Owner/Administrator.

Access will need to be regularly reviewed and revoked where applicable. An effective movers/leavers process should be in place.

Event logs will need to be protected against tampering (ie read only) in the event that system access will be required to be monitored.

4.6 Managing shared access

Sharing work accounts, or even occasional use by anyone other than the account holder, introduces several risks. As well as the possibility of users gaining access to unauthorised resources, sharing accounts removes the benefit of authenticating a specific user. In particular, the ability to audit and monitor a specific user's actions is lost, an essential forensic requirement for some accounts.

For example, many accounts will have a way to **delegate** privileges to another account (such as access to a document or inbox). Delegation should be used instead of sharing accounts wherever possible.

If alternatives are not possible, and there remains a strong business need for shared access to an account or device, then access to the password should be monitored and continually reviewed to manage the risk:

- the password should only be shared within the smallest possible group of known and trusted users
- the password should not be exposed to users who do not have permission to access it
- if someone is no longer allowed access, the password should be changed

4.7 Have different passwords for work and personal use

Do not use the same passwords for work and personal use i.e., online banking, online shopping, email accounts.

4.8 Changing Passwords

Passwords should be changed regularly, and you **should not** reuse your passwords. Even if a system allows, avoid reusing a password. Reusing that password could allow someone unauthorised access to your account.

Mandatory password changes may be forced on key systems according to the password policy set by the Trust e.g Windows. Changing passwords regularly helps to prevent misuse of your account without your knowledge if your password was somehow accidentally (or deliberately) disclosed.

You can change your password as often as you like or if you think it has been compromised. Contact the NHIS Service Desk (01623 410310 or x4040) to find out how you can change your Windows and other passwords.

4.9 What do I do if someone knows my password?

Log as an incident on the Trust's incident reporting system Datix, change your password(s) immediately and inform NHIS servicedesk as soon as possible.

4.10 What you must do

- ✓ Staff are responsible for keeping their login credentials secure (this includes Smartcards), and must ensure it is neither disclosed to, nor used by anyone else, under any circumstances.
- ✓ Staff must only access systems using their own username and password.
- ✓ Use different passwords for different systems this helps to prevent unauthorised persons from gaining access to your other accounts and data on other systems if your password is compromised on one system.
- ✓ Always keep passwords secret and protected.
- ✓ Change your password regularly.
- ✓ All staff are accountable for any activity carried out under their login (username) and password, and this is audited.
- ✓ Change your password immediately if you suspect someone knows it. The suspected compromise should also be reported immediately as a security incident.
- ✓ Staff must ensure any unattended devices are logged out of or locked securely.

4.11 What you must not do

- χ Do not use the same password for work and personal/home systems.
- χ Avoid using the same password for multiple accounts. While using the same password for multiple accounts makes it easier to remember your passwords, it can also have a chain effect allowing an attacker to gain unauthorized access to multiple systems.
- χ Do not share your password with anyone for any reason, including your manager, IT department staff or security staff.

χ Do not use automatic logon (such as 'remember me') functionality, particularly if you are using a shared workstation or laptop. Using automatic logon functionality negates much of the value of using a password. If a malicious user can gain physical access to a system that has automatic logon configured, he or she will be able to take control of the system and access potentially sensitive information.

5 EDUCATION AND TRAINING

Training

Annual data security awareness level 1 (formally known as Information Governance) training is mandatory for all new starters as part of the induction process. In addition all existing staff must undertake data security awareness level 1 training on an annual basis. Staff can undertake this either face-to-face³ or online. Provision is available online (or face to face for staff who do not have routine access to personal data) and includes Data Protection and confidentiality issues.

Data security awareness level 1 session meets the statutory and mandatory training requirements and learning outcomes for Information Governance in the UK Core Skills Training Framework (UK CSTF) as updated in May 2018 to include General Data Protection Regulations (GDPR).

Our Senior Information Risk Owner, Information Asset Owners and Information Asset Administrators must attend regular information risk awareness training which is available from the <u>Information Governance team</u>.

Implementation

A copy of this procedure and all related policies and procedures are provided to all staff and patients on the Trust's website.⁴

6 MONITORING COMPLIANCE AND EFFECTIVENESS

Legislative Changes will be monitored by the Information Governance Manager and Data Protection Officer and reported bi-monthly to the IG Committee.

7 EQUALITY IMPACT ASSESSMENT (please complete all sections)

- Guidance on how to complete an Equality Impact Assessment
- Sample completed form

Name of service/policy/procedure being reviewed:

New or existing service/policy/procedure:

³ <u>https://sfhcoursebooking.nnotts.nhs.uk/default.aspx</u> (internal web link)

⁴ https://www.sfh-tr.nhs.uk/about-us/policies-and-procedures/non-clinical-policies-procedures/

Date of Assessment:							
		tion answer the questions a – c cy or implementation down into					
Protected Characteristic	a) Using data and supporting information, what issues, needs or barriers could the protected characteristic groups' experience? For example, are there any known health inequality or access issues to consider?	b) What is already in place in the policy or its implementation to address any inequalities or barriers to access including under representation at clinics, screening?	c) Please state any barriers that still need to be addressed and any proposed actions to eliminate inequality				
The area of policy or its implementation being assessed:							
Race and Ethnicity:	None	Not applicable	None				
Gender:	None	Not applicable	None				
Age:	None	Not applicable	None				
Religion:	None	Not applicable	None				
Disability:	Visual accessibility of this policy	Already in Arial font size 12. Use of technology by end user. This policy can be made available in alternative formats, such as easy read or large print, and may be available in alternative languages, upon request	None				
Sexuality:	None	Not applicable	None				
Pregnancy and Maternity:		Not applicable	None				
Gender Reassignment:	None	Not applicable	None				
Marriage and Civil Partnership:	None	Not applicable	None				
Socio-Economic Factors (i.e. living in a poorer neighbourhood / social deprivation):	None	Not applicable	None				

What consultation with protected characteristic groups including patient groups have you carried out?

• None, however, this procedure has been reviewed by the Information Governance Working Group

What data or information did you use in support of this EqIA?

• Trust guidance for completion of the Equality Impact Assessments

As far as you are aware are there any Human Rights issues be taken into account such as arising from surveys, questionnaires, comments, concerns, complaints or compliments?

• No.

Level of impact Low Level of Impact.

Name of Responsible Person undertaking this assessment: Gina Robinson

Signature: G. H. Lobinson

Date: 17th December 2021

8 APPENDICES