

Research data handling and security guide for users



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1. Scope

This guide is for users of research data accessed via the UK Data Service (the Service) through its online services. In particular, all users who obtain data available subject to the End User Licence (EUL) Agreement, the Special Licence User Agreement or the Secure Access User Agreement are required to read and understand this document and the terms and conditions of access.

In this document, we use the term *Safeguarded* data to describe effectively anonymised data.¹ which are made available under the End User Licence Agreement, and, where applicable, additional conditions or the Special Licence User Agreement apply. *Controlled* data is used to describe data defined as personal data under the Data Protection Act (2018) and the UK General Data Protection Regulation (UK GDPR) or personal information as defined in section 39(2) of the Statistics and Registration Service Act 2007, subject to the Secure Access User Agreement and are made available through the Five Safes framework².

2. Licence framework

The Service does not own the data held in its collection. All data collections available via the Service are licenced by the data owners to be curated and shared on their behalf. Users accessing the data have responsibilities to observe the ethical and legal obligations pertaining to the data as defined by the licences under which these are made available. In particular, users must maintain the commitments made to survey respondents to preserve the confidentiality of the data provided.

The conditions under which data may be accessed are specified in a deposit licence and are also set out clearly in the catalogue record's Access Data tab.

The Service operates a three-tier licence framework:

Open data

- Data that are neither classified as Personal Data nor Personal Information and with no residual risk of disclosure or where consent to disclosure is in place.
- These data can be made available to any user without the requirement for registration for download/access.
- Use of these data are subject to Open Licences such as the <u>Open Government</u> <u>Licence</u> or <u>Creative Commons</u> variations.

¹ <u>https://ico.org.uk/media/about-the-ico/documents/4018606/chapter-2-anonymisation-</u> draft.pdf

² <u>https://ukdataservice.ac.uk/help/secure-lab/what-is-the-five-safes-framework/</u>



Safeguarded data

- Data that are neither classified as Personal Data nor Personal Information but where there is a potential residual disclosure risk, these data are effectively anonymised.
- These data are made available to registered, authenticated users, and where appropriate, special conditions are agreed to ahead of access.
- Use of the data is subject to the <u>UK Data Service End User Licence Agreement;</u> additional agreements might apply.

Controlled data

- Data classified as Personal Information or Personal Data and data that are particularly sensitive, commercially or otherwise.
- These data are made available to registered, authenticated and accredited users, with projects approved by the data owner(s), access to these data is made available via an institutionally-approved secure connection method.
- Use of data is subject to the <u>UK Data Service End User Licence Agreement</u> and access facilitated via the <u>Five Safes framework</u>.

2.1 Safeguarded data

Use of Safeguarded data is governed by a legally-binding End User Licence Agreement which forms part of the registration process. Each individual who requires access to data has to register with the UK Data Service and will need a UK Access Management Federation (UKAMF) login. Users who are part of the UK Higher/Further Education (UK HE/FE) sector will automatically be issued with these details by their organisation. Users who have no other way of obtaining a UKAMF login can apply for UKD credentials via the Service.

Under the terms of the End User Licence Agreement, users agree:

- To preserve the confidentiality of, and not attempt to identify, individuals, households or organisations in the data.
- Not to use the data for any commercial purpose (except with prior permission/under an appropriate commercial licence agreement).
- To use the citation and acknowledgement information provided by the Service, in publications.
- To supply to the Service, the bibliographic details of any published work based on the data collections.
- To ensure that the means of access to the data (such as passwords) are kept secure and not disclosed to anyone else.



• To abide by any further additional conditions.

2.1.1 Special conditions

For some data collections, data owners may specify special conditions of use to those agreed in the End User Licence Agreement. These include click through additional conditions, depositor permission applications and Special Licence User Agreements.

2.1.1.1 Additional conditions

Users are prompted within their accounts to sign and agree to any additional conditions, and must follow any steps required for accessing data.

2.1.1.2 Data subject to the Special Licence User Agreement

Data subject to the Special Licence User Agreement (Special Licence data) are not personal data but have a slightly higher risk of disclosure. Access to these data may be restricted to certain users depending on the data owners' requirements, for example, those working within the UK or in countries deemed by the UK to have an adequate level of data protection or researchers based in Higher Education/Further Education institutions. Researchers wishing to access these data must complete an application which needs to be approved by the data depositor or their nominee and agree to the Special Licence User Agreement.

Data explicitly defined as **personal data** under the UK GDPR cannot be made available as Safeguarded data.

2.2 Controlled data

Data that are classified as Personal Information or Personal Data and data that are particularly sensitive, commercially or otherwise are defined as Controlled data by the Service. These **Controlled** (Secure Access) data are only available through the UK Data Service secure environment, the SecureLab, and/or the UK Data Service Safe Room and via the ESRC SafePod Network. Any registered user requiring access to secure data will have to (i) be accredited as an ESRC and/or UK Statistics Authority Accredited Researcher, (ii) complete the Safe Researcher Training (SRT) and pass the training test, and (iii) agree to the Secure Access User Agreement.

3. Accessing data

Data can only be accessed under certain conditions:

- Under Open Licences there might be restrictions on commercial use and derivative work.
- Under the End User Licence Agreement, data can only be accessed by registered users and all terms and conditions of use must be abided to.
- Data supplied under additional conditions can only be accessed by those who have accepted these conditions.



- Data subject to the Special Licence User Agreement and Controlled data can only be accessed by approved individuals for a specified usage and for a specified time.
- Controlled data can only be analysed remotely within the Service's SecureLab and/or the Safe Room or via the ESRC SafePod Network and outputs are only released to users subject to statistical disclosure control by Service staff.

3.1 Research projects and teams

Users are required to register research projects via their online UK Data Service account. A research project can comprise of a single user or a project team. The period of access is typically set by the data owner for data subject to the Special Licence User Agreement and Controlled data, but tends to be between two and five years. Users should contact the UK Data Service Helpdesk if they wish to extend a project.

Where a user joins a research team that is using data subject to the Special Licence User Agreement or Controlled data:

- The new user must add the data to their project and follow any workflow step including completing necessary applications forms and additional user agreements.
- Approval must be sought from data owners and gained before the user can access the specific data.
- The user must complete SRT training and pass the SRT test to access Controlled data.
- The Service will provide advice on the process to be followed, which is largely selfprompted within the User Account system.

3.2 Teaching purposes

When using data for teaching purposes, the tutor must sign and return the Teaching Agreement and/or ensure that all students are registered with the UK Data Service.

Data subject to the Special Licence User Agreement and Controlled data cannot be used for teaching.

3.3 Reuse of data

Reapplying for access will be required for reuse of anything but Open data already supplied if used for a different purpose. All data usages are assigned to a dedicated project in a User's account. Any new project will need to be registered and data added. Where a data owner's permission is required, this will need to be obtained again for a new project. Using data for a different project is a non-compliance with the End User Licence Agreement and is subject to penalties.

3.4 Security

Passwords and passphrases that provide access to UK Data Service data or computing



environments must never be disclosed to anyone else. Data must never be stored on a computer that might enable unauthorised access.

4. Data storage and security

4.1 Safeguarded data

Safeguarded data provided by the Service must be stored under conditions that meet the undertakings given in the End User Licence Agreement (see section 8 for organisational responsibilities) and those listed below. Additionally, users should be aware of any **specific information security guidelines** provided by their organisation.

Authentication

- Access to endpoint devices (e.g. PC, laptop, thin client, virtual machine) must have suitable personal authentication (i.e. protected by a username and password (see section 4.4 for details)).
- If data are placed in a shared location, including on cloud platforms (Box, Google, AWS etc.), access must only be available via personal authentication to those permitted to use the data.

Encryption/passwords

- Means of access to the data (such as passwords or passphrases) must be kept secure.
- Data on portable media (e.g. a backup on CD or a USB memory stick) must be encrypted using a secure password/passphrase.

Data deletion

• Data must **be deleted** upon project completion as set out in section 7. Failure to delete, continuing to use data and/or using data for an unauthorised project constitutes a non-compliance as per the End User Licence Agreement and is subject to penalties.

4.1.1 Data subject to the Special Licence User Agreement

In addition to the responsibilities described above and in the End User Licence Agreement, data subject to the Special Licence User Agreement have some additional requirements around safe data storage and handling.

Where a Data Management Plan has been created for a research project, it is useful to refer to any processes agreed with your organisation, and to include these in the project application.

Setting

• Only be accessed in an organisational setting, or via an institutionally-approved secure



connection method through an endpoint device (e.g. PC, laptop, thin client, virtual machine) managed by the institution or managed by another party on behalf of the institution, where the endpoint device must have suitable personal authentication. The **data cannot be accessed at a private residence unless explicit permission has been applied for**, **and granted** via the Service.

- Be stored in physically secure conditions (e.g. endpoint device must be stored in in a room that is locked when unattended).
- Have access appropriately restricted when stored on a cloud platform. Beside personal authentication and limiting access only to those approved to use the data, when applicable, the platform must store data in the UK or in countries deemed by the UK to have an adequate level of data protection. All studies restricted to specific geographical location have an additional condition specifying the countries in which the data can be stored; if in doubt users should contact the Service at their earliest convenience.
- Be accessed on a site which has **security standards** that meet the guidelines referenced in this guide.
- Only be accessed at any additional site settings set by the data owner.

Encryption/passwords

- Must be encrypted when not in use using passphrases instead of passwords.
- Must be protected by a screen lock with an interval of no more than fifteen minutes that requires a secure password to unlock it.

Data deletion

- **Must be deleted upon project completion** as set out in section 7. Failure to delete, continuing to use data and/or using data for an unauthorised project constitutes a non-compliance as per the End User Licence Agreement and is subject to penalties.
- The data destruction form must be completed fully and returned to the Service.

4.2 Controlled data

The UK Data Service provides four methods of access to Controlled data:

- Remotely from the user's organisation or via an institutionally-approved secure connection method.
- From the Service's Safe Room, physically located at the UK Data Archive in Colchester.



- Via the ESRC SafePod Network (SPN) 'SafePods', installed in some institutions around the UK.
- Via an International Data Access Network (IDAN) secure data access point.

4.2.1 Access via SecureLab

Data accessed remotely via the SecureLab must only be accessed from a designated office at an organisational/institutional site; if working from home permission has been applied for and granted, access is permitted via an institutionally-approved secure connection method.

Data accessed from a designated office at an organisational/institutional site can only be accessed from an endpoint device that:

- Is managed by the institution or managed by another party on behalf of the institution from which the SecureLab will be accessed. Personal devices must not be used.
- Has a direct connection to the internet via a wired Ethernet connection or a wireless connection with WPA2 encryption managed by the host organisation.
- Has no other network interfaces connected except for the one being used to access the SecureLab; this includes using VPNs.
- Is not running any services which allow third parties to connect to the workstation e.g. a web server or email server.
- Is not running screen capture tools.

Data accessed from home, where explicit permission has been granted, can only be accessed from an endpoint device that:

- Uses an organisationally/institutionally approved secure connection method of remotely accessing the organisational/institutional endpoint.
- Has all recommended security updates applied and antivirus software installed and updated.
- Has no other network interfaces connected except for the one being used to access the SecureLab; this includes using VPNs.
- Is not running any services which allow third parties to connect to the workstation e.g. a web server or email server.
- Is not running screen capture tools.

Users accessing data via their SecureLab, accounts do not have the technical functionality to transfer, download, copy and paste any data, or print to a local computer. Users must not copy screenshots to a local computer.



Good security measures must be observed by the user, for example locking screens when leaving the computer unattended, not allowing screens to be visible to people other than SecureLab users working on the same SecureLab project, credentials must not be saved or cached in the web browser.

Outputs from analysis of the data within the SecureLab are only released to the user subject to statistical disclosure control checks undertaken by Service staff. Users are **strictly forbidden from copying anything from the screen**. Controlled data and outputs must not be seen on the user's computer screen by unauthorised individuals.

Users who have been approved to work together on the same project may only share unchecked outputs from that project with each other in the relevant shared project area within the SecureLab. Temporary or duplicate files should be deleted by the user(s) from the SecureLab. The <u>SecureLab user guide</u> provides detailed advice on managing work in the SecureLab.

All user activity within SecureLab is recorded to provide the Service with information about any suspicious activity and for auditing purposes.

4.2.2 Access via the UK Data Service's Safe Room

The conditions under which data are accessed via the UK Data Service's Safe Room are similar to those for accessing the SecureLab remotely. However, access via the Safe Room differs from remote access in that:

- Access is only available from within the room.
- Thin-client terminals are used to access the Servers where the data are held.
- Users must abide by the procedures, listed in the Safe Room procedures document (CD226-SafeRoomProcedures).

4.2.3 Access via SPN SafePods

The conditions under which data are accessed via SafePods are similar to that of the Safe Room.

- Sessions must be booked via the SafePod Network.
- Users must abide by the SafePod Network procedures.

4.2.4 Access via an IDAN secure data access point

The conditions under which data are accessed via an IDAN secure data access point are similar to that of the Safe Room. Users can find information regarding data availability at our International Data Access Network (IDAN) web page. Users are advised to consult the guide UKDS SecureLab: access to non-ONS data for researchers outside of the UK via Safe Room Remote Desktop Access.



- The IDAN access points must be booked via the partner organisation.
- Users must abide by the Licence Compliance Policy of the partner organisation access point.

4.3 Passwords and passphrases

Passphrases differ from passwords in format and in length. Passphrases are usually much longer, up to 100 characters or more and may contain spaces. The greater length and format of passphrases makes them more secure. Wherever possible we expect passphrases to be used.

A password must contain a combination of at least eight alphanumeric and symbolic characters. More is better.

Passphrases and passwords must:

- not be disclosed to anyone else
- not be written down
- be changed at least every three months
- not be easily guessable.

4.4 Audit of confidentiality and security procedures

The Service and the data owners reserve the right to conduct an onsite audit and the right of entry to the premises where the data are stored and/or accessed (see section 8). The Service and data owners may request a copy of the licence holder's security audit report if applicable and/or the licence holder's confidentiality and security procedures.).

5. Statistical disclosure

5.1 Data matching

Data matching can increase the risk of the disclosure of personal information and is therefore only permitted under certain circumstances. This must be declared in applications, where appropriate.

5.1.1 Safeguarded data

Where Safeguarded data are matched with external data sources this must not be for the purposes of identification.

5.1.1.1 Data subject to the Special Licence User Agreement

Any plans to match or attempt to match individual or household records to any other data source at the level of the individual or household must be declared in the project application. This level of analysis can only be undertaken with the explicit permission of the relevant data



owners.

5.1.2 Controlled data

Whilst the SecureLab provides an area in which secure data could be linked (e.g. with another dataset in the controlled collection or with the user's own data) this is strictly subject to the explicit permission of the data owner. Users will only be able to access those datasets approved for a particular research project. It will not be possible to subsequently add new data without a revised application and subsequent approval.

ONS business data may be linked using the anonymised reference numbers (known as IDBR references). A user may be able to produce a larger 'combined' dataset, with many variables providing characteristics that will directly identify an organisation. While this is an acceptable risk within the confines of the SecureLab, users must be aware that output requests containing information that will identify an organisation, will be rejected (see section 5.2).

5.2 Outputs

All outputs resulting from analysis of Safeguarded and Controlled data should be subjected to statistical disclosure control (SDC) checks and treatment. Further attention must be given to data subject to the Special Licence User Agreement and Controlled data. Users must refer to detailed procedures in the following best practice guidance documents:

- The Government Statistical Service's '<u>Disclosure control for tables produced from</u> <u>surveys</u>'.
- The Safe Data Professional Group's '<u>Handbook on Statistical Disclosure Control for</u> <u>Outputs</u>'.

There are some differences between SDC management for Safeguarded and Controlled data. The latter are personal data, much more granular and sensitive hence outputs must be checked by the Service before being released.

5.2.1 Safeguarded data

Some simple rules of thumb apply; these can be applied to any Safeguarded data:

1. Tables that contain very small numbers in some cells may be disclosive.

- Tables must never report numbers or percentages for cells based on only one or two cases; this is known as a minimum threshold of 3 and avoids primary disclosure. Cells based on one or two cases must be combined with other cells or, where this is not appropriate, reported as zero per cent.
- To avoid secondary disclosure, especially when multiple outputs are presented from the same data source, users are advised to use a higher threshold i.e. 10.
- Users should always adhere to any additional conditions imposed on outputs e.g. some studies require a minimum threshold of 30.



2. Tables and other outputs must not be published in a form where the level of geography would threaten the confidentiality of the data.

- Whenever possible the geography in any published outputs should not be lower than Region/UK Government Office Region (GOR). Where there is a fully justified requirement to publish outputs at a lower level of geography then the user must assess and ensure there is no risk of disclosure.
- Where there is any doubt, the user must contact the UK Data Service via the Helpdesk to obtain confirmation of the acceptability of publication of the output.

3. Care must be taken to ensure that individuals, households, or organisations cannot be identified in models or other statistical analysis.

- Results based on very small numbers must be avoided; summary and test statistics such as R-square, t, F, chi-square must only be presented where there are at least N degrees of freedom in the model, where N is the set threshold.
- Any output that refers to unit records, e.g. a maximum or minimum value, must be avoided.
- Models must not report actual values for residuals (as each residual constitutes a single observation).

4. Graphical outputs must be based on non-disclosive data.

• Particular care must be taken not to report extreme outliers.

5.2.2 Controlled data

The SDC requirements for Controlled data differ from those mentioned above for data subject to the Special Licence User Agreement.

Access to Controlled data is only available through the SecureLab. Users must conduct all their analysis, and produce their research outputs (such as papers, presentations etc.) within their dedicated project area. Controlled data will not be released to be used in any other environment under any circumstance.

Users must maintain familiarity with SDC. The two guidelines above offer detail on checking, but users will be given mandatory Safe Researcher Training that covers most of the key concerns around routine analytic outputs. A detailed <u>SecureLab user guide</u> is also available that SecureLab users should read and digest.

Outputs will be returned to users following a full SDC examination by two trained members of Service staff. It is the policy of the Service to only release 'final results' which are those considered ready for publication or a formal presentation. This avoids multiple attempts at clearing outputs, and is achievable because users working on the same project in the SecureLab can share their intermediate findings through shared project folders.



Where users are unsure about SDC when they produce outputs, we recommend that they speak to a Service support officer as soon as possible, and certainly before any outputs are submitted for checking. This will avoid disappointment if a user writes an entire paper within the secure environment, only to find that it is not released to them due to SDC problems.

6. Citing data and reporting publications

As outlined in the End User Licence Agreement, all users of data are required to cite the data, including using the Digital Object Identifier (DOI) of the dataset(s) in any publications or presentations arising from their research using collections from the Service. The Service should be informed of any publications and be provided with the full citation and DOI of the work. These publications can then to be added to the data catalogue record to provide useful information for new users.

Owners of data may reserve the right to ask to see or vet drafts of publications based on those data prior to publication. This will be noted in the Access conditions and users are notified during the application process.

Users of the SecureLab are not permitted to publish outputs unless they have been checked and released to them as outlined in section 5.2.2. If data owners wish to vet publications, users will be notified in advance.

7. When research is complete

It is recommended that users always retain a well-documented copy of any data preparation or analytic code used in their work.

For Safeguarded data when a project has been completed, users should delete all copies of the data, including derived datasets, backups, paper copies, portable copies (including CDs), and all electronic copies from every device, and any Server, used. Additionally for data subject to the Special Licence User Agreement the Service must be notified of the destruction via the completion of a Data Destruction form.

Users of Controlled data must ensure that their code files are stored in the 'Syntax Folder', which will be retained at the end of the project's life. All other files will be deleted at the end of the project. Code files can be removed from the SecureLab subject to clearance checks by Service staff.

7.1 Guidelines on data destruction

The following guidelines for destroying data must be adhered to:

- Data must be deleted from the system on which it has been stored using a secure erasure programme, such as <u>Eraser</u> or similar which repeatedly overwrites files a number of times, until such time as the original data could not be retrieved forensically.
- The recycle/trash bin must be emptied, preferably to be immediately followed by



running a secure erasure program; portable media holding any data must be destroyed and disposed of in a secure manner.

- Backup tapes must either be completely overwritten and degaussed (demagnetised) before being reused or disposed of.
- Paper copies must be destroyed by shredding, preferably using a cross-cut shredder.
- Before the PC, laptop or other device used for data storage leaves the possession of the organisation or individual (for destruction or second-hand sale, etc.), the hard disk must be completely erased using a secure erasure programme.
- Destruction of data subject to the Special Licence User Agreement must be confirmed to the Service by the user. A Data Destruction form will be sent to the user one month before the project expires.

8. Organisational responsibilities

UK Institutes of Higher or Further Education are bound by <u>JANET policies</u>, including the JANET Security Policy that places responsibilities on every person and organisation involved in the use or operation of JANET to protect the network against security breaches.

Most organisations have their own Information Security policies, which should be consulted before requesting access to data subject to the Special Licence User Agreement. If there is any doubt that your organisation has lower standards than those suggested here, you should check with your IT Services department.

There is a requirement that all central government departments must meet internationally recognised information and security management standards (e.g. ISO/IEC 17799 and/or ISO 27001) for their systems. Local authorities are also obliged to comply with the ISO 27001 security standard as part of their Implementing Electronic Government (IEG) requirements.

8.1 Data subject to the Special Licence User Agreement and Controlled data

For a user accessing data subject to the Special Licence User Agreement, it is the user's responsibility to ensure that they can store and access the data in a suitably secure physical and electronic environment.

Users of the SecureLab must provide a Secure Access User Agreement which needs to be signed by an authorised signatory of the user's organisation (usually the Registrar or delegate). In accordance with the agreement, the Service maintains the authority to oversee, document, and evaluate the use of personal information and data. The Service reserves the right to access the premises where the data are being used to ensure adherence to the technical requirements needed to access the SecureLab.

Access to data subject to the Special Licence User Agreement and Controlled data may



require the user to provide the contact details of a senior member of staff at their organisation who can vouch for their suitability for access to the data. The Service and data owners reserve the right to contact the senior member of staff to ask for a reference.

9. Non-compliance procedures

The user is required to promptly report any non-compliance with any of the terms of the End User Licence Agreement, Special Licence User Agreement or Secure Access User Agreement (this includes any non-compliance by someone else that the user becomes aware of). Failure to disclose an act of non-compliance is a non-compliance with the licence(s).

All users must consult the UK Data Service Licence Compliance Policy.

Non-compliance with the terms of the End User Licence Agreement, including any additional conditions, may result in the following actions:

- Immediate termination of access to all services provided by the Service and the UK Data Archive either permanently or temporarily.
- Legal action being taken against the individual who has not complied with the terms of the End User Licence Agreement.
- Withdrawal of access by the user's organisation to all Service and UK Data Archive services either permanently or temporarily.

Additionally, any non-compliance with the terms of access for Controlled data:

- Will result in the immediate termination of the user's access to the data and termination of the licence; depending upon the seriousness of the non-compliance, the termination of access may be permanent.
- May result in sanctions being sought against the user by the data owner.
- Will, for ONS Controlled data under the Statistics and Registration Services Act 2007 and the Digital Economy Act 2017, incur penalties as specified within the Acts, which may include a fine and/or imprisonment.
- Penalties could also include individual or organisational sanctions including withdrawal of UKRI funding and organisational suspension from all UKRI data services, a fine and/or imprisonment.

Users will be provided with detailed guidance on non-compliance and penalties when undertaking the SecureLab training.

10. Help and feedback

This guide is updated regularly. For further advice, or to provide suggestions or comments, please contact the UK Data Service Helpdesk via our <u>contact us web page</u>.





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