

# **Ministry of Justice (MoJ) Cyber Security Guidance: Supplier Edition**

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# Getting in contact

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## Reporting an incident

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Suppliers to the MoJ should refer to provided methods/documentation and contact your usual MoJ points of contact.

# Information security policies

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## Management direction for information security

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### IDENTIFY, PROTECT, DETECT, RESPOND, RECOVER

The Ministry of Justice (MoJ) is required to adhere (but prefers to exceed) to the [Minimum Cyber Security Standard \(MCSS\)](#).

#### The Standard

The [UK HMG Security Policy Framework](#) mandates protective security outcomes that the MoJ must achieve (and suppliers to MoJ, where they process MoJ data/information).

More information is available from <https://www.gov.uk/government/publications/the-minimum-cyber-security-standard>.

#### IDENTIFY

IDENTIFY is a prerequisite standard that requires:

- appropriate information security governance processes;
- identification and cataloging of information held/processed; and
- identification and cataloging of key operational services provided.

#### PROTECT

PROTECT is the core standard to provide fundamentally defences to information and requires:

- access to systems and information to be limited to identified, authenticated and authorised systems/users;
- systems to be proportionally protected against exploitation of known vulnerabilities; and
- highly privileged accounts (such as administrative level) to be protected from common attacks.

#### DETECT

DETECT is the core standard to detect when attacks are taking, or have taken, place and requires:

- capture event information (and apply common threat intelligence sources, such as [CiSP](#));
- based on PROTECT, define and direct monitoring tactics to detect when defence measures seem to have failed;
- detection of common attack techniques (such as commonly known applications or tooling); and
- implementation of transaction monitoring solutions where systems could be vulnerable to fraud attempts.

#### RESPOND

RESPOND is the core standard to define the minimum of how organisations should respond to attacks and requires:

- development and maintenance of an incident response & management plan (including reporting, roles and responsibilities);

- development and maintenance of communication plans, particularly to relevant supervisory bodies, law enforcement and responsible organisations such as the NCSC;
- regular testing of the incident response & management plan;
- assessment and implementation of mitigating measures on discovery of an incident (successful attack); and
- post-incident reviews to ensure feedback into the iteration of the incident response & management plan.

## RECOVER

RECOVER is the core standard to define the minimum of how organisations should recover from an attack once it has been considered closed, and requires:

- identification and testing of contingency mechanisms to ensure the continuance of critical service delivery;
- timely restoration of the service to normal operation (a plan to do so, and testing of that plan);
- from DETECT & RESPOND, immediately implementing controls to ensure the same issue cannot arise in the same way again, ensuring systematic vulnerabilities are proportional remediated.

# Media handling

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## Removable Media

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**Note:** Any Ministry of Justice (MoJ) systems or removable storage media used for work purposes must be encrypted to MoJ security standards. Security encryption is a mandatory government measure, and one of the most important methods we have to protect MoJ information.

### What is 'removable' media?

Laptops and [USB memory sticks](#) are the MoJ's most commonly used items of removable media. Removable storage media covers items available to users, such as USB memory sticks, writeable CDs/DVDs, floppy discs, and external hard drives.

Strictly speaking, magnetic tapes are also removable storage media, but it would be very unusual for the average user to have access to or to use magnetic tapes for business purposes.

MoJ security guidance specifies that USB memory sticks and other user-removable media should not be used to store departmental data. Only in exceptional circumstances, and where there is compelling business justification, should MoJ-approved USB sticks with device encryption be used.

### USB memory sticks

This guidance is intended to ensure that MoJ data remains secure, and to mitigate the potential impact of lost data sticks.

1. You must only connect approved external removable storage media to MoJ systems.
2. Connecting non-approved memory sticks is a breach of MoJ security guidelines, and could result in disciplinary action.
3. If there is a genuine business requirement to save, retrieve or transfer data via removable media, fill in one of:
  - [Removable media business case form](#)
  - [Data Movement form](#)

Additional guidance information is available about the [Data Movement form](#). When the form is ready, send it to: [OperationalSecurityTeam@justice.gov.uk](mailto:OperationalSecurityTeam@justice.gov.uk).

4. Each request is evaluated by MoJ Operational Security, with a view to recommending the safest and most appropriate method to contain risk of loss.
5. Normally, you'll get a response within 5 working days.

6. Requests to use a memory stick or other removable media will normally only be granted when there is no other practical alternative. Where approval is granted, only encrypted memory sticks or other removable devices provided by the MoJ are allowed. Use of memory sticks or other removable devices will be subject to stringent conditions, and permitted only after user training.

If you need further assistance or information about this process, [ask](#).

## How do I know if my laptop, or USB stick, is encrypted?

All equipment provided through the MoJ's recognised central procurement systems are encrypted and protected to MoJ security standards. You must use MoJ processes to obtain any equipment used for business purposes, including mobile computing devices and removable media.

## What's expected of you

Keeping MoJ information safe is everyone's responsibility. Anyone using portable computing equipment must take particular care to safeguard the equipment and the information stored on it. Failure to do so may result in disciplinary procedures.

## Contact details

For any further questions relating to security, contact: [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk), or for security advice, contact the Cyber Assistance Team [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk).

## Secure Disposal of IT Equipment

The Ministry of Justice (MoJ) and its Executive Agencies and Arms Length Bodies use a wide variety of equipment, including desktop computers, laptops, USB memory sticks and other mobile devices. This equipment is procured and managed through MoJ suppliers, who are normally responsible for the secure disposal of the equipment when it is no longer used. Typically, a supplier managed device will have a supplier asset tag on it, making it easier to identify who to ask for help with disposal.

However, there are also other devices across the MoJ estate which might have been procured and managed locally. It is crucial that they are disposed of in a secure manner, to prevent data being leaked.

To determine the correct disposal requirement, use the following table to identify the correct outcome, depending on the type of equipment and its security classification. If the table does not cover your exact requirement, contact the Operational Security Team: [OperationalSecurityTeam@justice.gov.uk](mailto:OperationalSecurityTeam@justice.gov.uk)

**Note:** When disposing of SECRET or TOP SECRET equipment or materials, always contact the Operational Security Team: [OperationalSecurityTeam@justice.gov.uk](mailto:OperationalSecurityTeam@justice.gov.uk)

Equipment or asset type	Data deletion method	Disposal method
Flash (USB) and Solid State Drives (SSD)	Delete the data, or erase using manufacturer instructions.	Destroy using commercially available disintegration equipment, to produce particles of a maximum of 6 mm in any direction.
Hard disk	Overwrite the entire storage space with random or garbage data, verifying that only the data used to perform the overwrite can be read back.	Break the platters into at least 4 pieces. This can be done either manually or by using a commercially available destruction product suitable for use with hard disks. Alternatively, apply a Lower Level degauss and then apply a destructive procedure that prevents the disk from turning. For example, punch holes into the platters, or twist or bend them.

Equipment or asset type	Data deletion method	Disposal method
Magnetic tapes and floppy disks	Overwrite the entire storage space with random or garbage data, verifying that only the data used to perform the overwrite can be read back.	Destroy using a commercially available shredder that meets a recognised international destruction standard. Particles of tape should be no larger than 6 x 15 mm. Alternatively, apply a Lower Level degauss and then cut the tape to no larger than 20 mm in any direction.
Optical media	Data deletion is not possible.	Shred or disintegrate using equipment that meets a recognised international destruction standard. Particles should be no larger than 6 mm in any direction. A high capacity CD and DVD shredder is available at 102 Petty France, suitable for items up to TOP SECRET. Contact <a href="mailto:OperationalSecurityTeam@justice.gov.uk">OperationalSecurityTeam@justice.gov.uk</a> for help with this option.

Owners of the data storage devices are responsible for procuring services that meet the necessary destruction outcomes as described above. Assurance shall be required that the appropriate destruction has taken place for any locally procured MoJ assets, and that an audit trail is available for inspection upon request by MoJ security.

Wherever possible and appropriate, managers should pool together equipment with that of local colleagues to share service costs.

If you have any concerns about moving items between sites securely, contact the Operational Security Team: [OperationalSecurityTeam@justice.gov.uk](mailto:OperationalSecurityTeam@justice.gov.uk)

## Reusing equipment

When a project completes, or a colleague leaves or moves to a new role, equipment might become available. In many cases, it might be more cost-effective to consider reusing or reassigning this equipment, rather than disposing of it.

Any equipment must be completely 'cleaned' to an 'as-new' state before it is reused or reassigned. This means that all storage media in the device must be fully erased.

## Contacts

The following organisations are approved to help you with security disposal of equipment:

- TYR security: [g-cloud@tyr-security.co.uk](mailto:g-cloud@tyr-security.co.uk)
- Data eliminate: [info@dataeliminate.com](mailto:info@dataeliminate.com)

## Contact details

For any further questions relating to security, contact: [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk), or for security advice, contact the Cyber Assistance Team [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk).

# Access control

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## Business requirements of access control

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### Access Control guide

#### Introduction

This guide explains how the Ministry of Justice (MoJ) manages access to its IT systems so that users have access only to the material they need to see. This guide has sub-pages which provide in-depth Access Control guidance.

#### Who is this for?

This guide is aimed at two audiences:

1. The in-house MoJ Digital and Technology staff who are responsible for implementing controls throughout technical design, development, system integration and operation.
2. Any other MoJ business group, agency, contractor, IT supplier and partner who in any way designs, develops or supplies services (including processing, transmitting and storing data) for, or on behalf of the MoJ.

#### Related guides

Further guidance on how to manage user access can be found in the guides below.

- [Privileged Accounts](#).
- [Management Access](#).
- [Minimum User Clearance Requirements](#).
- [Multi-Factor Authentication \(MFA\)](#).

#### Information security principles for access control

These are the Access Control principles you need to know.

- **The 'need-to-know' principle:** Restricting access to information based on a business requirement.
- **Non-repudiation of user actions:** Holding a user accountable for their actions on an IT system.
- **The 'least privilege' principle:** Assigning the least number of privileges required for users to fulfil their work, usually done through Discretionary Access Controls (DAC).
- **User Access Management:** Managing user access to systems and services through a formal user identity lifecycle process.

#### Access control principles

Effective access control should be implemented by following these four principles.

1. **Identification:** The MoJ should provide a single, unique ID assigned, named and linked to a private account for each user. For example, Lesley is issued a user account that only Lesley uses, and only Lesley can access. This is important so that logging information is accurate (see the [Accounting section below](#) for further information).
2. **Authentication:** To access MoJ systems, users must authenticate themselves. They can do so using:
  - something they know (such as a password - the primary authentication method used at the MoJ)
  - something they have (such as a smart card)
  - something they are (biometric authentication such as a fingerprint, voice recognition, iris scan and others)

Systems holding sensitive information, or systems that are mission critical to the MoJ, must use Multi-Factor Authentication (MFA) to prove user identity. See the [Multi-Factor Authentication Guide](#) for further information. If you wish to use an additional method of authentication you should review the National Cyber Security Center's



(NCSC) guidance and contact the Cyber Assistance Team (CAT). For information on authentication methods including OAuth, refer to the [Managing User Access Guide](#).

3. **Authorisation:** Authorisation is the function of specifying access rights/privileges and resources to users, which should be granted in line with the principle of least privilege. Reducing access privileges reduces the "attack surface" of IT systems. This helps to prevent malware and hackers from moving laterally across the network if they compromise a user account.
4. **Accounting:** Successful and unsuccessful attempts to access systems, and user activities conducted while using systems must be recorded in logs. Please see the [Security Log Collection Guide](#) for more information. This will help to attribute security events or suspicious activities to users who can be supported to improve their behaviours or held accountable for their actions.

Consider the following points when creating activity logs.

Logs should be:

- stored securely
- backed up, so that data are not lost if there is a system unavailability
- managed according to the sensitivity of the data they hold, for example personal information. Contact the Data Privacy Team for advice on protecting sensitive personal information - [privacy@justice.gov.uk](mailto:privacy@justice.gov.uk).
- stored for a minimum of 6 months

Logs should not be:

- retained for longer than 2 years unless otherwise stipulated. Retention rules may vary on a case by case basis so check with the Data Privacy Team, the Cyber Assistance team, and the MoJ Data Protection Officer if a Log involves personal information. See the [Accounting Guide](#) for further information.
- tampered with under any circumstances, for example through modification or removal.

See the [Security Log Collection Guide](#) for more information.

## Segregation of duties

In some parts of the MoJ, segregation of duties is used to help to reduce the possibility that malicious activity takes place without detection.

You can segregate duties in various ways, including:

- implementing manual or automated Role Based Access Control (RBAC), to enforce user authorisation rights.
- regularly reviewing audit logs to check for suspicious activity
- ensuring strict control of software and data changes
- requiring that a user can perform only *one* of the following roles:
  - identification of a requirement or change management request (Business function)
  - authorisation and approval of a change request (Governance function)
  - design and development (Architect or Developer function)
  - review, inspection, and approval (another Architect or Developer function)
  - implementation in production (System Administrator function)

## Contact details

Contact the Cyber Assistance Team for access control advice – [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk)

## Enterprise Access Control Policy

All Ministry of Justice (MoJ) staff (including contractors and agency staff) are entitled to be granted access to the information which is required for their work, subject to their level of clearance and employment status.

Access control mechanisms provide the ability for MoJ IT systems to control the levels of access granted to an individual User or defined groups of individual Users. This section outlines the process for managing User access to MoJ IT systems starting from when a User is initially registered through to the revocation of access rights and removal of their User account.

## Legacy information

**Note:** This document is Legacy IA Policy. It is under review and likely to be withdrawn or substantially revised soon. Before using this content for a project, contact [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk).

**Note:** This document might refer to several organisations, information sources, or terms that have been replaced or updated, as follows:

- CESG (Communications-Electronics Security Group), refer to the National Cyber Security Centre (NCSC), contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).
- CINRAS (Comsec Incident Notification Reporting and Alerting Scheme), refer to the NCSC, contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).
- ComSO (Communications Security Officer), contact the Chief Information Security Office (CISO) ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- CONFIDENTIAL, an older information classification marking.
- CPNI (Centre for the Protection of the National Infrastructure), contact the CISO ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- DSO (Departmental Security Officer), contact the Senior Security Advisor ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- GPG6 (Good Practice Guide 6: Outsourcing and Offshoring: Managing the Security Risks), refer to the NCSC, contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).
- IS1 (HMG Infosec Standard 1 Technical Risk Assessment), see the [Government Functional Standard - GovS 007: Security](#).
- IS4 (HMG Infosec Standard 4 Communications Security and Cryptography), see the [Government Functional Standard - GovS 007: Security](#).
- IS6 (HMG Infosec Standard 6 Protecting Personal Data and Managing Information Risk), see the [Government Functional Standard - GovS 007: Security](#).
- ITSO (Information Technology Security Officer), contact the CISO ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- RESTRICTED, an older information classification marking.
- SPF (Security Policy Framework), see the [Government Functional Standard - GovS 007: Security](#), contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).

## User and Information Access management

Access control is primarily about enforcing three information security principles:

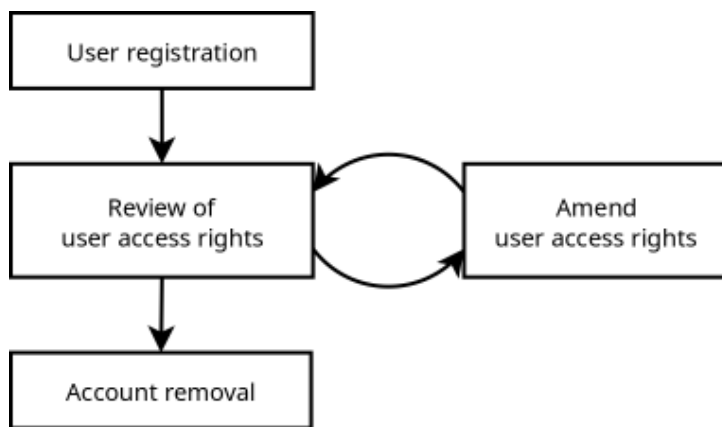
- The '*need-to-know*' principle – restricting access to information based on a business requirement.
- *Non-repudiation* of User actions –holding a User accountable for their actions on an IT system.
- The '*least privilege*' principle – assigning the least number of privileges required to fulfil their work.

At a high level, access control in MoJ is based on Role Based Access Control (RBAC). Each user is assigned a role (or set of roles) and access to a piece of information is granted on a per role basis. In general, information will either be subject to RBAC or classified as open access (for example, a HR policy document made available on the MoJ intranet).

Information made available on an open access basis (i.e. not subject to any RBAC restrictions) must be treated as an exception to general access control rules. It is important to ensure any information made available in this way has been validated by the Information Asset Owner (IAO) to ensure that the information does not have 'need-to-know' constraints that impede it's sharing beyond a defined RBAC group (see [here](#) for further details on the role of the IAO).

## Management of User access control

The following diagram depicts the 4 stage management lifecycle for managing user access control.



The rest of this section describes each of the 4 stages and outlines what activities are required.

**Note:** This lifecycle aligns with the MoJ HR processes for new joiners and leavers (see: <https://intranet.justice.gov.uk/guidance/hr/>).

### User registration and account creation

The following activities must be undertaken for each new User registration:

- The identity of the new User must be confirmed – for an MoJ member of staff this is confirmed by MoJ HR;
- The access rights required must be supplied (for example, the list of RBAC groups and/or applications);
- Confirmation of clearance level (see [here](#) for further details);
- The application for User registration must be authorised by a MoJ senior manager.

**Note:** This authorisation is used as confirmation of the Users identity and the access rights requested are correct.

In general, individuals who are MoJ staff (including contractors and agency staff) will be provisioned with a User account and a number of roles applicable to the nature of their work so that they can access the relevant MoJ IT systems, application and information. Temporary use of a MoJ IT system may be permitted where a specific business need exists (e.g. to allow an external trainer to train MoJ staff in a new application) subject to clearance checks and a Non-Disclosure Agreement (NDA). A MoJ senior manager must assume total responsibility for the actions undertaken by that temporary User while they are using a MoJ IT system using a temporary account.

### Minimum user clearance requirements

Most MoJ IT systems operate at IL3 where information with a protective marking of REST\* can be processed. As these systems process HMG protectively marked data, Users must attain a certain clearance level before they can be granted access rights, the exact level depends on the type of access rights required and job role.

For the purposes of this standard, access rights have been broken down into three User account types. Table 1 provide a description for each type and the minimum clearance required.

**Table 1: User account type and clearance required**

User account type	Description	Minimum Clearance Required
Normal User	Include all Users with entry-level access; includes read/write and read-only Users.	BPSS
Application Administrator / Privileged User	Typically an application system manager, i.e. those with the rights to create/remove user accounts, and provide internal support.	BPSS

User account type	Description	Minimum Clearance Required
Systems Administrator	A systems administrator does not necessarily have a 'need-to-know' over any of the business information held on the systems they support however they do have administrative privileges which allows them to view data held on those systems and change their configuration.	SC

**Note:** The clearance level indicated in Table 1 is separate to the clearance level required for a particular job role and sets the minimum requirement for access to a MoJ IT system. Most job roles at the MoJ require an individual to attain BPSS however; some job roles require an individual to have a higher clearance such as SC or DV.

### Privilege management and review of user access rights

In order to ensure that privileges are assigned on a least privileges basis, the following information must be supplied when requesting a new User account or additional privileges:

- A statement of the access required, for example, a path to a folder or functionality within an application;
- The name/identity of the User requiring access and their associated User account identify (where the request relates to an existing User account);
- Business justification; and
- Approval from a MoJ senior manager.

### Review of user access rights

Access rights must be reviewed on a regular basis and may need to be updated as a result of any change in job role, security clearance, or employment status. The review schedule is captured in Table 2.

The following sub-sections outline the key roles involved in the review process and highlights further consideration which should be undertaken when granting privileges for access to knowledge repositories or remote access connectivity.

#### *IT System owner / Information Asset Owner responsibilities*

An IT System Owner or Information Asset Owner (IAO) is responsible for managing access control rules for their particular system.

The actual review and implementation of any access control changes may be performed by MoJ service management along with the relevant IT service provider on their behalf however they may be required to verify access rights in order to assist a scheduled review audit of User accounts and permissions.

#### *IT service provider responsibilities*

MoJ IT service providers operate as access control custodians (as they retain top-level administration rights) acting on the direction of an IT system manager, IAO's and MoJ senior managers.

The IT service provider will only amend access rights based on either an automatic joiners / leavers notification or from requests made from an authorised individual (as described at the start of [this section](#) ). In performing these activities on behalf of the MoJ, the IT service provider has the responsibility to:

- Retain a record of all authorised users (granted accounts);
- Retain a record of all access approvals and changes.
- Retain a record of all users granted administrative privileges on any network, system, or application under their administration.

#### *Granting system administrator privileges*

Systems administrators by their very nature have privileged access to MoJ IT systems, it is important that the use of system administrative accounts is kept to a minimum, as such:

- Systems administrators must be provisioned with two system accounts, one operates as a normal user, the other as a systems administrator.
- A systems administrator must ensure that they use their normal account as their main working account and only use the elevated privileges of their systems administrator account when required.
- Further details can be found in [IT Security SyOPs - System Administrators](#).

Non-IT service provider Users are not normally permitted to hold system administrative privileges. Exceptions may be granted where there is a legitimate business justification endorsed by a MoJ senior manager or Senior Civil Servant (SCS). Further advice must be sort from the MoJ ITSO.

#### *Access to knowledge repositories*

Knowledge repositories such as TRIM, are intended to host generally accessible information (but still internal to the MoJ), however certain categories of personnel may not be entitled to access these repositories (or subsets of information held within them) if they are deemed to contain any information that has a specific or implied access control restriction (e.g. based on clearance level or job role).

The relevant IAO is required to ensure that all information is suitable for sharing without access controls or alternatively shall restrict access to authorised personnel with an appropriate need-to-know.

#### *Remote access*

Remote access to a MoJ IT system requires the use of an authentication token (such as an RSA token) in addition to the standard network login. Each token is unique to a particular individual and must only be issued to those Users who have a business need to access MoJ IT systems remotely, for example, home workers.

#### **Account removal**

An individuals User account and any associated access rights must be removed once that individual has either left the organisation or no longer requires access to the IT system (or application) that the account was created for.

Account removal must be authorised by MoJ HR. The leavers process can be found on the HR intranet page (see: <https://intranet.justice.gov.uk/guidance/hr/>). As part of the HR process, HR must inform the relevant IT service provider when a member of staff leaves the organisation and as such instruct them to deactivate and remove their user account.

#### **Review of User privileges and accounts schedule**

Table 2 outlines the review schedule which must be applied to all MoJ IT systems. All User privileges and accounts must be audited in accordance with this schedule, Table 2 states the review activity required with an associated frequency.

**Note:** It is anticipated that most MoJ IT system will be able to comply with this schedule, however it is recognised that this may not be feasible on some. Any deviation from this schedule must be approved by the system Accreditor and MoJ ITSO (for example a copy of Table 2 with revised schedule can be placed within the relevant system RMADS).

**Table 2: Review of User privileges and accounts schedule**

Activity	Description	Schedule
<b>Review existing user accounts</b>	Review all the user (and system user) accounts and identify accounts which have not been used in the last 3 months. The list of identified accounts must be reviewed with MoJ HR to identify which accounts can be removed (as the User has left the MoJ) or require deactivation (as the User is on long term leave).	Every 3 months

Activity	Description	Schedule
<b>Review of user access / authentication tokens</b>	Review the usages of remote access authentication tokens (e.g. RSA token) and identify accounts where a token has not been used in the last 3 months. These token must be disabled.	Every 3 months
<b>Review of user account privileges</b>	Review the roles and privileges assigned to a User and remove any which are no longer required.	Every 6-12 months (exact review period to be agreed with the system Accreditor and MoJ ITSO)

## User access management

### Managing User Access Guide

#### Introduction

This guide provides information on the authentication methods which should be used to manage user access to systems and information in the Ministry of Justice (MoJ). This is a sub-page to the [Access Control Guide](#).

#### Managing access to MoJ systems

The following methods can be used to manage access to the MoJ's systems. They are in order of preference for their use, with 1 providing more secure management features than 3.

Rank	Method	Comment
1	Application Program Interface (API)	Where possible, APIs should be used instead of remote server configuration tools such as Secure Shell (SSH) and Remote Desktop (RDP). This is because APIs offer greater technical control over security systems without the need for parsing commands required by remote server configuration tools.
2	Automated diagnostic data collection	It should be considered the exception for administrators to directly administer a server/node when there is automated diagnostic data collection. Diagnostic data collection allows the underlying technical data to be easily correlated and analysed.
3	Remote server configuration tools	If you cannot use APIs then remote server configuration tools can be used with the following controls.

Use of bastion or 'jump' boxes for access into systems is a useful technical security design that also helps 'choke' and control sessions.

The need to use remote server configuration tools to interact with a server or node can be reduced through improved infrastructure and server design. For instance, the use of stateless cluster expansion or contraction, and the automated diagnostic data capture, can reduce the need to use SSH.

System Admins should only login to a server or node via SSH to execute commands with elevated privileges (typically, root) under exceptional circumstances.

- SSH must be strictly controlled, and environments should be segregated so that no single bastion or 'jump' SSH server can access both production and non-production accounts.
- Do not allow direct logging in as root through SSH. Administrators must have a separate account that they regularly use and `sudo` to root when necessary.
- SSHs must be limited to users who need shell, in contrast to users who might use SSH as a port forwarding tunnel.
- Joiners/Movers/Leavers processes must be strictly enforced (optimally and preferably automated) on SSH servers, as they are a critical and privileged access method.
- SSH access should not be password-based. It should use individually created and purposed SSH key pairs. Private keys must not be shared or re-used.

The Government Digital Service (GDS) recommends the use of the open authorisation standard 'OAuth2' as a means to authenticate users. See the [GDS guide](#) for more information.

### Contact details

Contact the Cyber Assistance Team for advice - [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk)

## Minimum User Clearance Requirements Guide

### Introduction

This Minimum User Clearance Requirements Guide outlines the level of security clearance required for staff in order to access specific account types.

### Security clearance levels

The Ministry of Justice (MoJ) uses the [national security vetting clearance levels](#):

- Baseline Personnel Security Standard (BPSS)
- Counter Terrorist Check (CTC)
- Security Check (SC)
- Developed Vetting (DV)

Where appropriate, Enhanced checks apply, for example Enhanced Security Check (eSC).

### Minimum user clearance requirements

Most of the MoJ IT systems are able to process OFFICIAL information. Therefore all roles in the MoJ require staff to attain BPSS clearance as a minimum to be granted access rights to view OFFICIAL information. Some roles require staff to have higher clearance.

For an individual to perform any of the following tasks, clearance higher than BPSS is required:

- Has long term, regular, unsupervised access to data centres or communications rooms.
- Has regular privileged unsupervised and unconstrained access to systems which contain data for multiple MoJ systems, for example backups, or console access to multiple cloud services.
- Has cryptography responsibilities and handling, under advice from the Crypto Custodian.
- Has access to multiple system security testing outcomes which reveal vulnerabilities in live services.
- Has a role such as system support or IT investigation role, such that without further authority or authorisation, an individual might:
  - Act as another user.
  - Obtain credentials for another user.
  - Directly access other users' data.

If an individual does not need to perform any of the above tasks, then BPSS, DBS or Enhanced Check is sufficient.



The MoJ HQ and Executive Agencies might have additional, specific requirements for DV/DV STRAP clearance for individual systems. These requirements should be followed where applicable.

Please contact the Cyber Assistance Team and refer to the [Vetting Policy](#) for further information.

### Checking someone's clearance status

To check someone's clearance status, collect the following information:

- Their firstname.
- Their lastname.
- Their date of birth.

Send this information to the MoJ Group Security Team, by emailing: [mojgroupsecurity@justice.gov.uk](mailto:mojgroupsecurity@justice.gov.uk). The team will check with the Cluster, to determine the individual's clearance status, if any. If you are authorised to receive the answer, the team will reply to you with the answer.

### Contact details

Contact the Cyber Assistance Team for advice - [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk)

## Multi-Factor Authentication (MFA) Guide

### Introduction

This Multi-Factor Authentication (MFA) guide explains how MFA can be used to ensure that users are only granted access to Ministry of Justice (MoJ) information once their identity is confirmed. This is a sub-page to the [Access Control Guide](#).

### MFA

Users should have their identity authenticated through the following methods:

- something they know (such as a password)
- something they have (such as a mobile phone or smart card), and/or
- something they are (biometric authentication such as a fingerprint).

MFA can be used as a possession-based factor for authentication, by checking for something 'you have'. MFA is sometimes referred to as Two-Factor Authentication (2FA) if it involves a second form of authentication. MFA is referred to as 3, 4, or 5 Factor Authentication if it includes additional authentication requirements. Different methods of additional authentication identify users with varying degrees of accuracy. Care should be taken to ensure true MFA. For example, password and security questions are both dependent 'something the user knows' and therefore are just one factor of authentication.

The list below identifies the MoJ's preference for MFA methods, with 1 ranked the highest. These methods can be used for 2, 3, 4, or 5 Factor Authentication as required.

#### Note:

- MFA Type 1 may not be suitable for all systems. In that case, other methods of delivering MFA should be considered to provide additional protection beyond single sign on.
- MFA types 5 and 8 should only be used when no other MFA method is appropriate as these methods can be easily spoofed or circumvented.

Preference	Type
1.	Hardware-based (for example, Yubikeys or TPM enabled devices)
2.	Software-based (for example, <a href="#">Google Prompt</a> on a mobile device)
3.	Time-based One Time Password (TOTP)-based (the code is held by a dedicated app such as Google Authenticator on a mobile device)



Preference	Type
4.	TOTP-based (the code is held within a multi-purpose app, for example, a password manager app that also holds other factor information)
5.	Certificate-based (a digital certificate used to authenticate a user)
6.	Email-based (a one-time code/link sent to the registered on-file email address)
7.	SMS-based (a one-time code sent via SMS)
8.	Phone-call based (a phone call providing a one-time code or password)

### Contact details

Contact the Cyber Assistance Team for advice – [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk)

## Privileged Account Management Guide

### Introduction

This guide explains how to manage privileged accounts in order to minimise the security risks associated with their use. This is a sub-page to the [Access Control Guide](#).

### How to manage privileged accounts

Holders of privileged accounts, such as system administrators, have privileges to perform most or all of the functions within an IT operating system. Staff should have privileged accounts only when there is a business need, in order to prevent malicious actors gaining privileged access to Ministry of Justice (MoJ) systems. The MoJ requires that ownership and use of privileged accounts must be monitored and audited on a monthly basis.

Privileged accounts should be protected with the following controls.

DO
<ul style="list-style-type: none"> <li>✓ Ensure that privileged users only use their system administrator account when elevated privileges are required. Their general user account should be used for all other work activities.</li> <li>✓ Ensure that management or administrative access is limited to users who have been suitably authenticated and have been authorised to perform the specific action. Only those with a genuine business need should have an administrative account, however there should be a sufficient number of administrators that there is not a single point of failure due to absence or administrators leaving the MoJ. This should be enforced through the principle of least privilege.</li> <li>✓ Ensure that Multi Factor Authentication (MFA) is used where possible, such as where administrative consoles provide access to manage cloud based infrastructure, platforms or services. MFA should also be used to access enterprise level social media accounts. See the <a href="#">Multi-Factor Authentication Guide</a> for details of preferred MFA types. Where MFA cannot be used on a system, this is considered an exception and should be logged in the risk register.</li> <li>✓ Ensure that MFA is mandated for a privileged user to conduct important or privileged actions such as changing fundamental configurations including changing registered email addresses or adding another administrator.</li> <li>✓ Ensure that MFA is used as a validation step, to confirm actions requested by users, such as a MFA re-prompt when attempting to delete or modify data.</li> <li>✓ Ensure that default passwords are managed securely and safely.</li> </ul>
DON'T
<ul style="list-style-type: none"> <li>✗ Allow privileged users to use their privileged accounts for high-risk functions. These include reading emails, web browsing, using an 'administrator' login on an end-user device (such as a mobile device), or logging into a server as 'root'.</li> </ul>

**DON'T**

- ✘ Leave default or factory set passwords for any accounts but particularly for privileged system accounts, social media accounts and infrastructure.
- ✘ Allow a user to have a privileged account, unless they are a service provider and require a privileged account for that specific service.

**Contact details**

Contact the Cyber Assistance Team for advice – [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk)

## Physical and environmental security

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### Equipment

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#### Clear Screen and Desk

##### Clear Screen

Users shall comply with the following:

- Digital Services equipment shall not be left logged on when unattended. Users shall ensure that password-protected screensavers are activated when any equipment is left unattended.
- Computer screens shall be angled away from the view of unauthorised persons.
- Computer security locks shall be set to activate when there is no activity for a short pre-determined period of time (set to 5 minutes by default). This can be manually activated when required.
- Computer security locks shall require passwords to be re-entered to reactivate the computer.
- Desktops and laptops should be shutdown if you expect to be away from them for more than half an hour.
- Users shall log off or lock their computers when they leave the room.

##### Clear Desk

Users shall comply with the following:

- Where possible, paper and computer media shall be stored in suitable locked safes, cabinets or other forms of security furniture when not in use, particularly outside working hours.
- Where lockable safes, filing cabinets, drawers, cupboards etc. are not available, doors must be locked if rooms are left unattended. At the end of each session all OFFICIAL and OFFICIAL-SENSITIVE information shall be removed from the work place and stored in a locked area.
- When handling OFFICIAL documents security shall follow the requirements laid down in the Government Classification Scheme (GCS).
- OFFICIAL or OFFICIAL-SENSITIVE information, when printed, should be cleared from printers immediately.

It is good practice to lock all rooms and office areas when they are not in use.

Information left on desks is also more likely to be damaged or destroyed in a disaster such as fire or flood.

### Laptops

#### Storing data on laptops

The guidance applies to all Ministry of Justice (MoJ) staff.

If you need to store data on your computer you should always remember to move it into:

1. Your local Electronic Document and Record Management (EDRM) system.
2. An MoJ shared drive.
3. Your MoJ-provided 'home' drive.

Do this as soon as you can next connect to the MoJ network.

### **Where should I save data when using a laptop?**

It is best to avoid saving any data on a laptop hard drive. However, if you absolutely must, you should always remember to copy or move the data to the MoJ network as soon as you next can connect to it, either via secure remote access or by direct connection.

In order to avoid potential data loss, save data in:

1. Your local Electronic Document and Record Management (EDRM) system.
2. An MoJ shared drive.
3. Your MoJ-provided 'home' drive.

There is a better chance of recovering lost data if you have saved it to the MoJ network, as data stored on the MoJ network is backed up daily.

### **What is the impact of hard drive failures?**

Hard drive failures can lead to the irrecoverable loss of data. Any data loss can have security implications for the MoJ, and a significant impact on:

- Our business opportunities.
- Our reputation.
- Our ability to deliver services to the public.

If you experience any issues with your laptop or IT service, [ask for help](#).

### **How to reset your password**

To reset your password, you will need to contact the [IT Service Desk](#). They will carry out checks to confirm your identity. This might include asking your line manager or court manager to confirm your identity, by sending an email to the IT Service Desk. Once your identity is confirmed, your password will be reset and you will quickly regain access to your laptop.

### **Reusing equipment**

When a project completes, or a colleague leaves or moves to a new role, equipment might become available. In many cases, it might be more cost-effective to consider reusing or reassigning this equipment, rather than disposing of it.

Any equipment must be completely 'cleaned' to an 'as-new' state before it is reused or reassigned. This means that all storage media in the device must be fully erased.

### **General enquiries, including theft and loss**

#### **Dom1/Quantum - Technology Service Desk**

- Tel: 0800 917 5148

**Note:** The previous [itservicedesk@justice.gov.uk](mailto:itservicedesk@justice.gov.uk) email address is no longer being monitored.

#### **Digital & Technology - Digital Service Desk**

- Email: [servicedesk@digital.justice.gov.uk](mailto:servicedesk@digital.justice.gov.uk)
- Slack: #digitalservicedesk

#### **HMPPS Information & security:**

- Email: [informationmgmtsecurity@justice.gov.uk](mailto:informationmgmtsecurity@justice.gov.uk)
- Tel: 0203 334 0324

## Contact details

For any further questions relating to security, contact: [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk), or for security advice, contact the Cyber Assistance Team [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk).

## Locking and shutdown

### General

The Ministry of Justice (MoJ) has made a commitment towards sustainable IT. The intentions are:

- To reduce overall power consumption for the MoJ by switching off machines and saving energy.
- To reduce the MoJ's overall carbon footprint.

### How do I shutdown my desktop computer?

- Close all applications.
- Shut down the computer by clicking the 'Start' button at the bottom left hand corner of the screen. Next, click 'Shut Down'.
- A pop-up box will appear with a drop-down box. Select 'Shut Down' and click 'OK'. After a short delay, your computer will automatically shut down.
- Switch off your monitor screen.

### What are the benefits?

By switching off our computers at the end of each working day, we are contributing towards being energy efficient and environmentally friendly. We are all responsible for our own Carbon Footprint. So, please switch off your PC monitor along with your desktop computer at the end of each working day. In addition, please switch off any other PC monitors if you notice they too have been left on overnight.

### What if there are any issues preventing you from switching off your computer?

If there are any issues preventing you from switching off your desktop computer overnight, then please raise this with the [IT Service Desk](#) immediately as there could be an underlying fault that needs resolving.

If you require any further information regarding this policy, [ask for help](#).

### Locking your computer sessions

Access to most computer systems is controlled by a user name and password. If you have the correct information, you are able to 'log in' or 'log on'. The user name identifies the user as a valid user of the system and the password authenticates that the user is who they say they are.

You are responsible for what you do with an MoJ system or service. You might be held responsible for any actions carried out using your user name and password. You must therefore not allow any one else to do work on any system using your user name and password. If you leave your computer logged on when you are away from it, it might be possible for sensitive information held on the computer system to be used, read, changed, printed or copied by someone not authorised to see it.

If you are leaving your computer unattended for a short period of time, 'lock' the computer by activating the password protected screen saver or similar 'locking' facility. A simple and quick way to lock a Windows computer is:

1. To LOCK - press the Windows key and L key, at the same time.
2. To UNLOCK - press the Ctrl, Alt and Delete keys, at the same time, then log in as normal.

A simple and quick way to lock a Mac computer is:

1. To LOCK - press the Ctrl, Cmd and Q keys, at the same time.
2. To UNLOCK - move the mouse or press any key, then log in as normal.

## Laptops Background

All MoJ laptops have hard disk encryption installed. This protects the entire contents of a laptop's hard disk drive to prevent any data stored locally from being accessed in the event the laptop is either lost or stolen.

## Incident

Investigations into security incidents indicate that a common reason for problems is where the correct security procedures are not being followed. For example, laptops are being left logged on overnight.

This is not good security practice.

If a device is lost or stolen whilst the machine is in locked mode, the data on the machine is more vulnerable to a potential security breach.

Leaving the laptop in MoJ premises is not sufficient to guarantee the equipment's security. Laptop losses do sometimes occur within MoJ offices. There is a greater risk of data loss when a laptop is left partially logged on overnight, so you should always fully log off the laptop at the end of your working day.

## What you need to do

- Switch off the machine completely at the end of each usage.
- Do not attach the password to the machine or keep the password with the machine.

If you need further assistance or information about this process, [ask for help](#).

## General enquiries, including theft and loss

### Dom1/Quantum - Technology Service Desk

- Tel: 0800 917 5148

**Note:** The previous [itservicedesk@justice.gov.uk](mailto:itservicedesk@justice.gov.uk) email address is no longer being monitored.

### Digital & Technology - Digital Service Desk

- Email: [servicedesk@digital.justice.gov.uk](mailto:servicedesk@digital.justice.gov.uk)
- Slack: [#digitalservicedesk](#)

### HMPPS Information & security:

- Email: [informationmgmtsecurity@justice.gov.uk](mailto:informationmgmtsecurity@justice.gov.uk)
- Tel: 0203 334 0324

## Contact details

For any further questions relating to security, contact: [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk), or for security advice, contact the Cyber Assistance Team [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk).

# Operations security

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## Operational procedures and responsibilities

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### Offshoring Guide

#### Legacy information

**Note:** This document is Legacy IA Policy. It is under review and likely to be withdrawn or substantially revised soon. Before using this content for a project, contact [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk).

**Note:** This document might refer to several organisations, information sources, or terms that have been replaced or updated, as follows:

- CESG (Communications-Electronics Security Group), refer to the National Cyber Security Centre (NCSC), contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).
- CINRAS (Comsec Incident Notification Reporting and Alerting Scheme), refer to the NCSC, contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).
- ComSO (Communications Security Officer), contact the Chief Information Security Office (CISO) ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- CONFIDENTIAL, an older information classification marking.
- CPNI (Centre for the Protection of the National Infrastructure), contact the CISO ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- DSO (Departmental Security Officer), contact the Senior Security Advisor ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- GPG6 (Good Practice Guide 6: Outsourcing and Offshoring: Managing the Security Risks), refer to the NCSC, contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).
- IS1 (HMG Infosec Standard 1 Technical Risk Assessment), see the [Government Functional Standard - GovS 007: Security](#).
- IS4 (HMG Infosec Standard 4 Communications Security and Cryptography), see the [Government Functional Standard - GovS 007: Security](#).
- IS6 (HMG Infosec Standard 6 Protecting Personal Data and Managing Information Risk), see the [Government Functional Standard - GovS 007: Security](#).
- ITSO (Information Technology Security Officer), contact the CISO ([security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)).
- RESTRICTED, an older information classification marking.
- SPF (Security Policy Framework), see the [Government Functional Standard - GovS 007: Security](#), contact [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).

## Introduction

### Document Purpose

This document is the Ministry of Justice (MoJ) IT Information Assurance (IA) Policy and Guidance for offshoring of MoJ Information Systems, development, or other support services. The document states the IA requirements that must be complied with for offshore developments, and presents considerations to be taken into account when deciding whether to offshore an element of MoJ capability.

This document has not been developed in isolation. It draws heavily and intentionally on other guidance, particularly HMG Good Practice Guide (GPG) 6: Outsourcing & Offshoring: Managing the Security Risks. This document collates the high-level points from the CESG and CPNI guidance, and interprets these in the context of the MoJ.

The target audience for this document includes MoJ personnel with a requirement to make offshoring decisions; and MoJ suppliers who are considering, or currently engaged in, delivery of MoJ capabilities with an offshore element.

## Background

### General

Some suppliers are keen to offshore elements of IT service delivery, due to a perception that this will reap strong financial benefits. Reasons often cited for offshoring decisions include: cost savings in wages and other business expenses relative to the domestic (UK) market; access to specific specialist technical skills; and access to a large labour pool to support peak loading or large-scale projects.

Offshoring is not, however, without its potential issues. Badly managed offshoring of a project can lead to over-runs in project costs and timescales which eclipse any anticipated benefits. In the worst cases, project over-spend, over-run and quality issues can lead to project failure. Also, there are a number of scenarios where offshoring would introduce unmanageable risks; and/or result in a direct breach of UK law; and/or result in unexpected financial exposure for the MoJ. These risks are not necessarily a blocker to offshoring, but must be balanced carefully against the anticipated benefits.

### *Quality, Cost and Time*

Offshoring presents a range of ubiquitous project risks which must be considered. There can be a tendency to over-estimate the savings that can be made, and to underestimate the potential configuration management and integration issues. Much of the cost saving from offshore development comes from the labour-cost-differential between the UK and favoured offshore locations. High levels of inflation as those economies expand, often through development as offshore centres, can shrink or even overwhelm any predicted cost savings. This may make the supplier's position untenable. Cultural differences can also exaggerate normal project stress points that occur during integration and handover of outsourced elements. Customers and suppliers often fail to fully appreciate increased incidental costs, e.g. due to the additional testing overhead incurred. The long delivery chain can also become a difficulty to manage. In some less stable locations, risks due to war, civil uprising and the availability of Critical National Infrastructure also lead to unique business continuity issues.

### *Legal Risk*

Offshore projects may also fall foul of more pedestrian but no less severe risks due to local laws at the offshore location. It is important to ask questions such as: to what extent are the contractual conditions legally binding for an offshore company in a proposed location; how difficult and expensive would it be to mount a legal challenge in the case of contract breach, and is this any less likely to be successful; and who would have priority over information and other assets in the event of a dispute. This is not just an issue which the MoJ will face when engaging an offshore supplier directly; it is also an issue that MoJ's suppliers will face, but may not be aware of, when subcontracting elements of delivery.

### *Risk to "UK PLC"*

Many MoJ information systems handle HMG Protectively Marked and/or personal and sensitive personal data. These add a number of specific risks over-and-above the more usual project risks. Local data protection laws may not provide an appropriate level of legal protection, for the data or data subjects involved, against rogue individuals and criminal groups who misappropriate personal data. This may be more of a problem for countries outside of the European Economic Area (EEA), where the legal framework may not be familiar. Commercially sensitive information may be similarly at risk. Political instability may lead to facilities being over-run, which as well as having business continuity implications may also have severe consequences from potential disclosure of Protectively Marked information. Also, organised criminals are able to operate more actively and openly in some overseas jurisdictions. Such activity may be driven by political or economic advantage. It is not only the physical site but also application development that can present a risk to data. A vulnerability or backdoor, engineered into an application either maliciously or inadvertently, could be used to leak information over an extended period or even indefinitely without being identified. The [Open Web Application Security Project \(OWASP\)](#) presents a list of common vulnerabilities that occur due to careless programming and ineffectual testing. Deliberately engineered vulnerabilities and backdoors are considerably more difficult to identify and address.

### *Personnel Risks*

Most people are reliable and honest. However, for work on systems which will handle sensitive Government information, a small number of unreliable or dishonest individuals can cause a disproportionate amount of harm. It is critical, therefore, to identify such high-risk individuals. Pre-employment screening is a critical element in helping to do this, along with aftercare to balance risks identified during screening, and monitor changes to an individual's status that may affect their reliability. Similarly, legal defences provide a complementary means to deter inappropriate behaviour.

### **Scope**

This document covers offshoring of MoJ business activities. Offshoring is defined here to include development or provision of services, from outside the UK or otherwise using non-UK resources, for domestic (UK) consumption.

The scope of offshoring is a broad one. This may involve, for example:

- Development of applications, and/or provision of second-line and/or third-line support for these applications, from non-UK locations and/or by non-UK Nationals.
- Follow-the-sun technical support for commercial products, so that suitable technical resources are available at times when domestic support would be unsociable.



- Remote managed services for wholesale provision of MoJ capabilities from non-UK locations and/or by non-UK Nationals.
- Other provision of support to the MoJ from non-UK locations and/or by non-UK Nationals.

The scenarios which are to be treated as offshoring are set out in the bulleted list below. This is not necessarily an exhaustive list; in case of uncertainty please contact MoJ IT IA for advice: [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk).

#### **Captive centres**

Refers to an office that forms part of a Government department but is physically located outside the UK.

#### **Far-shoring**

Covers scenarios where development is to be transferred to locations outside of the EEA. Far-shoring may enable more cost-effective development than near-shoring, or may enable access to specific technical skills. However, far-shoring may require additional National Security and/or legislative considerations to be taken into account relative to near-shoring.

#### **Landed resources**

Covers scenarios where resources from outside the UK are brought to the UK. This may be, for example, to provide: low-cost labour, specialised skill-sets, and/or support for peak loads. Use of landed resources makes it possible to obtain considerably more control over the working environment of non-UK Nationals on HMG programmes, and can enable a more robust screening and aftercare regime for personnel, traded off against increased development costs.

#### **Near-shoring**

Covers scenarios where development is to be transferred to other countries within the European Economic Area (EEA), where legislation on key issues such as data protection, electronic communications and human rights is broadly aligned with UK legislation. It should be noted that although key legislation is broadly aligned across the EEA by a requirement to meet common EU Directives, the legislation that has been implemented by different EEC nations in order to comply with these directives has some important differences.

#### **Other**

Any other activity using non-UK locations and/or non-UK Nationals to deliver elements of HMG capability.

### **Exclusions from Scope**

Exclusion 1: This document does not address UK or overseas legislation. The MoJ legal team, the MoJ Data Access and Compliance Unit (DACU), and the MoJ Data Protection EU and International Policy Teams must be consulted on legal issues. Contact [privacy@justice.gov.uk](mailto:privacy@justice.gov.uk) for assistance.

Exclusion 2: This document also does not address protection of individuals' personal data, except within the context of HMG Security Policy. The Data Access and Compliance Unit (DACU) must be consulted on personal data, the DPA, and related issues.

With the exception of Landed Resources, deployment to locations within the UK does not count as offshoring and is therefore beyond the scope of this document. It is noted, however, that there will be other geographical factors to be taken into account even within the UK. For example, there are special security arrangements for Northern Ireland, and different freedom of information legislation between England and Scotland. These differences should in no way be considered as a justification not to outsource to other UK locations, but would need to be addressed in the local controls deployed.



Outsourcing is beyond the scope of this document, except insofar as outsourcing arrangements are directly related to offshoring requirements (e.g. contractual obligations to be included in supplier contracts and subcontracts). Outsourcing is defined by HMG GPG6 as:

a contractual relationship with an external vendor that is usually characterised by the transfer of assets, such as facilities, staff or hardware. It can include facilities management (for data centres or networks), application development and maintenance functions, end-user computing, or business process services.

## Document Overview

The remainder of this document is structured as follows:

- The relevant [IA Constraints and Considerations](#) for offshoring.
- A checklist of [assessment activities](#) at different points in the development lifecycle.

## IA Constraints and Considerations

### General

There are a number of specific IA Constraints which must be satisfied by any MoJ offshoring arrangements. There are also a number of key considerations that must be borne in mind in deciding whether to offshore a particular capability or service.

This section of the document sets out the general IA requirements and constraints that must be complied with when offshoring MoJ capabilities. This document is derived from some of the good but generic CESG and CPNI documentation on the subject, outlined in the [Further Reading](#) section. This guidance should not be used as a substitute for engagement with the MoJ Accreditor or with MoJ IT IA, who will be able to provide tailored guidance to support individual decisions; it is intended more as general guidance on MoJ policy, to support initial decision-making and project planning.

### Accountability

The development or management of a capability can be outsourced, however, ultimate accountability and responsibility for a capability remains with the end-customer for that capability: in this case the MoJ. The MoJ remains accountable for work performed by third parties on its behalf, whereas outsourcing and offshoring can make it difficult to directly identify and manage information risks and issues. Strong governance and clear lines of accountability and responsibility are required to address this.

**REQUIREMENT 1:** The MoJ remains ultimately responsible for the security and overall delivery of offshore application development and other services. All supplier and subcontractor contracts must ensure that the MoJ retains overall control over all security-relevant elements of the delivery. The enforceability of supplier and subcontractor contracts in overseas jurisdictions must be ratified by MoJ legal experts.

If a capability is delivered late, is substandard, fails completely or is compromised, then the MoJ will need to put measures into place to ensure business continuity while a remedial plan is developed and worked through, otherwise essential public services may not be deliverable in the interim. In some cases, the MoJ may find itself financially or legally liable for shortcomings in supplier subcontracts. Also, the MoJ rather than the supplier will almost certainly suffer the brunt of any bad publicity.

The core function of the MoJ is to deliver services for the general good, rather than commercial commodities. As such, the impact of failure is not quantifiable in purely financial terms. Failure or compromise of MoJ services cannot therefore be fully remedied through financial penalties in supplier contracts, although financial penalty clauses can nonetheless serve as a motivation for suppliers to deliver on time and to quality.

The responsibility of the MoJ for its own security and overall delivery is reinforced within the [HMG SPF](#), at Paragraph 7, under Roles and Responsibilities:

Accounting Officers (e.g. Head of Department/Permanent Secretary) have overall responsibility for ensuring that information risks are assessed and mitigated to an acceptable level. This responsibility must be supported by a Senior Information Risk Owner (SIRO) and the day-to-day duties may be delegated to the Departmental Security Officer (DSO), IT Security Officer (ITSO), Information Asset Owners (IAOs), supported by the Lead Accreditor.

**REQUIREMENT 2:** The MoJ SIRO remains accountable for information risks, including risks to Protectively Marked and personal data, in an offshore context. These risks must be documented and presented to the SIRO, and must be explicitly agreed to before any contract with an offshore element is accepted. In some cases, a submission to the Cabinet Office IA Delivery Group may be necessary. The MoJ Accreditor, MoJ IT IA, DACU and Legal experts must be engaged by the project team as soon as a potential offshoring requirement is identified, to enable identification of these information risks. Close engagement with these Special Interest Groups must be maintained for the delivery lifetime. This engagement must be formally set out in the delivery plan.

The MoJ will bear the main impact of any compromise of the Confidentiality, Integrity and/or Availability of public services that are delivered or managed on its behalf.

The ultimate decision on whether the IA risk of outsourcing is acceptable will therefore be made by the SIRO, as advised by the IAO and the MoJ Accreditor. [HMG security policy](#) requires that the SIRO must personally approve all large-scale information-related outsourcing and offshoring decisions. The SIRO is also required to approve the offshoring of personal data sets and, in some cases, submit plans for scrutiny by the Cabinet Office IA Delivery Group. The MoJ Accreditor, MoJ IA function and SIRO must be involved as soon as a potential offshoring proposal is identified, so that a decision on whether the proposal presents an acceptable level of information risk can be made at the earliest opportunity. This limits the likelihood of nugatory work by the project team.

The requirement for early and ongoing engagement with the MoJ Accreditor and MoJ IA function is reinforced by HMG GPG6 :

The risk assessment and treatment plan must be reviewed by the Accreditor and presented to the SIRO at each stage of the procurement process.

## Risk Assessment

Before any sensible dialogue can be had around whether or not offshoring is acceptable, the value of the assets to be offshored and the threats for the offshore location and/or personnel must be properly understood. Asset valuation and threat assessment must therefore be conducted as an upfront activity for any proposal, and will require early engagement with all interested parties. Risk assessment must be conducted as an initial activity, and regularly revisited as the project progresses. All threat assessment and risk assessment activities will need to be conducted in collaboration between the supplier as risk manager, and the MoJ as the owner of the threat and the risk.

**REQUIREMENT 3:** All MoJ assets and/or activities to be offshored must be identified, and a Threat Assessment for those assets/activities at the proposed offshore location carried out. This includes not only physical and software assets but also information and service assets. The value and business impact of compromise for each information asset must be determined against the [HMG Business Impact Table and MoJ Business Impact guidelines](#); valuations must be agreed with the Information Asset Owner for each asset. A Privacy Impact Assessment (PIA) is also required, as discussed further in [REQUIREMENT 5](#) below.

The set of assets to be offshored not only includes any specific capabilities to be developed or managed, but will also include any incidental assets which are required to support these activities. For example:

- Development will require test data and schemas which may in themselves attract a Protective Marking or have other particular sensitivities.
- Some development activities may be deemed to require real or anonymised data, rather than fully synthetic test data, to ensure the robustness of critical applications or to test revised applications against historical data from extant capabilities.

Wherever it is considered that there may be a requirement to use real or anonymised data, rather than synthetic data, the MoJ "Policy on the use of live personal data for the testing of IT systems, processes or procedures" must be complied with. For more information, see [this guidance](#).

- Effective application development may require knowledge of real configuration information to support pre-integration-testing activities, or of broader MoJ network infrastructure designs in order to tailor and optimise development. Some of this information may attract a Protective Marking or have other particular sensitivities. The information shared with offshore developers should be minimised to the fullest extent that is possible.
- Poor coding practices often result in sensitive information such as network configuration information, user and administrator credentials, and other sensitive details being hard-coded into applications. Support for development, for third-line support and application maintenance, and for upgrades to MoJ IT capabilities may therefore

necessitate some unavoidable access to sensitive information for which there is no specific need-to-know by the development or maintenance team.

**REQUIREMENT 4:** Sensitive MoJ assets and/or activities should not be offshored to Countries where Special Security Regulations Apply, or to Countries in which there is a Substantial Security Threat to British Interests.

It is the policy of the MoJ that Protectively Marked or otherwise sensitive MoJ assets, and development or support activities relating to these assets, should not be offshored to Countries where Special Security Regulations Apply, or to Countries in which there is a Substantial Security Threat to British Interests. The MoJ ITSO can provide further details of these, on a need-to-know basis, in response to specific requests. It is the policy of the MoJ that activities involving Protectively Marked or otherwise sensitive MoJ information should not be offshored to these locations. In cases where there is an exceptionally compelling business case for offshoring to one of these locations, the MoJ ITSO must be consulted and will advise the business on suitability, weighing up all of the relevant factors and assessing the extent to which the proposed compensating controls mitigate the risk.

**REQUIREMENT 5:** MoJ assets and/or activities should not be offshored to countries where political stability, practical considerations and/or legal issues (e.g. compliance with the DPA) may result in a significantly-above-baseline risk to the confidentiality, integrity and/or availability of Protectively Marked or other sensitive data, or where there is not an adequate level of protection for the rights of data subjects in relation to their personal data.

Not all countries which have issues with political and/or economic instability are listed as CSSRA or Substantial Security Threat countries. There are several other countries that are not on the list which nonetheless present a high risk for offshore development and operations. These countries should be avoided on the general principle of avoiding development environments where the local threat is significantly above baseline. Also, as discussed above, the CSSRA and the list of Substantial Security Threat countries change from time to time. By not offshoring in unstable locations, the risk of outsourcing to a country that subsequently ends up on one of these lists is reduced.

In addition to the above, there are some politically stable locations where it is nonetheless difficult or impossible to meet other essential requirements for the handling of Protectively Marked or other sensitive data (e.g. personal data). Inability to assure the identity and history of personnel, and local legislation on disclosure of data (for example, in response to local FoI or law enforcement obligations), are common examples which can lead to issues with screening and with retaining control of information.

In addition to countries with political and/or economic issues, as discussed above, there may also be threats and risks as a result of other nations' legal systems. Legal constraints in some countries may:

- Conflict with IA requirements under the HMG SPF and supporting guidance;
- Conflict with requirements under the Data Protection Act (DPA) and/or other UK Law; and
- Expose the MoJ to untenable legal liabilities in the event that something goes wrong.

A particular consideration for offshoring is DPA Principle 8: "Personal data shall not be transferred to a country or territory outside the European Economic Area unless that country or territory ensures an adequate level of protection for the rights and freedoms of data subjects in relation to the processing of personal data."

Legal advice must be engaged, separately to IA advice, to identify any potential legal issues in advance of making any offshoring decision.

**REQUIREMENT 6:** An information risk assessment for each offshore location must be conducted by the Offshoring Company or organisation. This risk assessment must be subject to review and acceptance by MoJ IA. This should include an IS1 Risk Assessment, an assessment against ISO27001 controls, and a "Delta Assessment" setting out any HMG requirements that may be unenforceable, any variations to HMG policy that may be required, and how it is proposed to address these Deltas. A Privacy Impact Assessment (PIA), taking into account local legal considerations at the offshore location, must also be conducted. The risks, and the costs of mitigating the risks, must be balanced against the benefits to be gained from outsourcing. A Risk Management Plan must be developed and maintained to identify the mitigations required to address offshoring risks and estimate the costs of implementing these mitigations.

An information risk assessment for the offshore location must be conducted. This must include an IS1 Risk Assessment in line with current HMG guidance. It must also include an assessment of physical, procedural, personnel and technical measures at the offshore location set against the ISO27001 requirements and highlighting the additional controls in place to address the concerns set out within HMG Good Practice Guide 6 for specific ISO27001 controls.

It must also include a "Delta Assessment" setting out any HMG requirements that may be unenforceable, any variations to HMG policy that may be required, and how it is proposed to address these deltas.

The high-level information risk assessment is required at the proposal stage, prior to contract negotiations. This must be developed incrementally into a more detailed risk assessment as the project progresses. This risk assessment must take into account all assets to be offshored and the specific Threat Assessment for the offshore location and/or personnel. The risk assessment must meet the requirements of both HMG IS1 and HMG GPG6. The requirements of HMG IS6 relating to personal data can be more difficult to meet in an offshore context, so particular care must be taken to ensure that the PIA takes the offshore location into account and offshore elements of the contract are compliant with IS6.

A Risk Management Plan is essential to address the risks identified through offshoring. As well as providing evidence that the supplier has adequately considered these risks, this will also provide the basis for estimating the cost overhead of mitigating offshoring risks, enabling a more accurate assessment of whether offshoring truly represents value for money. For example, the cost of provisioning a suitably segregated technical environment to support offshore development work; combined with the cost of providing a suitably secure link to enable remote access for offshore workers; and the cost of sending out suitably trained personnel for regular inspections of an overseas site; may significantly erode any cost savings.

## Supplier Arrangements

**REQUIREMENT 7:** IA constraints and requirements for offshoring must be made clear to suppliers prior to contract award and explicitly set out in contractual arrangements with suppliers to the MoJ. These constraints and requirements must be flowed down to all subcontractors along the chain of supply. Conversely, Intellectual Property Rights must flow up contractually from the offshore supplier or suppliers to the MoJ.

IA requirements must be determined as an integral part of the initial requirements for any capability, and an assessment of competing solutions against IA requirements must be a critical part of supplier selection during the tender process. Offshoring is no exception to this. Offshoring constraints and requirements must be made clear to suppliers prior to contract award, so that there can be no ambiguity during costing for any solution to be delivered to the MoJ. There will almost certainly be additional time, effort and cost involved to implement the required physical controls, testing and decommissioning activities required to meet IA requirements in an offshore development environment.

Some suppliers with UK bases may wish to offshore and/or subcontract elements of their contracts with the MoJ. If elements of a contract have been offshored to a subcontractor working in one location, that subcontractor may themselves wish to offshore elements of their subcontract to a different offshore location. IA constraints and requirements must be applicable to all of those who are party to the contract. For example, an offshore organisation based in Country A, which provides second-line support for an MoJ application from Country A, might rely on teams from its offices in Country B to conduct development and third-line support activities. This would have an impact on the Threat Assessment and hence the risks to the capability.

The MoJ is responsible for all offshore activities that are being conducted on its behalf, and must retain oversight of these activities. This requirement must be enforced within supplier contracts, through robustly worded requirements for contractual flow-down of IA responsibilities through the supplier chain. The MoJ must be given both visibility and an over-riding right of approval or veto for subcontractor arrangements. A right of audit without warning must be maintained by the MoJ, including full access to all physical sites, logical capabilities, accounting logs, etc.

Ownership of all information assets, and all Intellectual Property Rights, developed as part of MoJ contracts must flow up to the MoJ. All MoJ information, including vestidual information, which is held on a supplier's physical assets, must be erased and/or disposed of to the satisfaction of MoJ IT IA during decommissioning. Again, legal limitations on the enforceability of contractual conditions in some locations must be taken into account and specialist legal advice will be required to ensure that all necessary contractual conditions are enforceable at offshore development locations.

The above issues with contractual flow-down of responsibilities and flow-up of ownership are best managed if the MoJ retains control of the subcontract chain. Ideally, wherever practicable, MoJ supplier contracts should only allow further subcontracts to be let with the explicit permission of the MoJ. This enables the cost and complexity of due-diligence checking and contractual enforcement, not just for offshoring considerations but also more generally, to be more effectually bounded and controlled.

**REQUIREMENT 8:** Suppliers must ensure that offshore development is conducted according to UK and other relevant IA standards and legislation.

The requirements of the HMG SPF must be adhered to for offshore development. This may require significant changes to local working practices in some cases. The requirements of other relevant British and International standards must also be adhered to. Most notably for IA considerations, this specifically includes [ISO27001 \(Information Security Management System\)](#) and [ISO25999 \(Business Continuity\)](#). Offshore sites and processes must be demonstrably compliant with ISO27001, and must be subject to a combination of scheduled and snap audits to ensure this. In addition to all of the usual ISO27001 conditions, particular considerations for offshore development are set out within HMG GPG6. Any issues found during audit must be addressed over timescales that are agreeable to MoJ IT IA, with formal progress tracking of issues as they are addressed and resolved. Business Continuity can introduce particular issues in some offshore contexts, where events such as natural disasters, pandemics, criminal activity, acts of war, etc. may be sufficiently probable to merit more rigorous mitigations than for UK development. Factors such as staff turnover may also present particular issues in an offshore context, particularly where Landed Resources are used.

**REQUIREMENT 9:** The robustness of development and integration testing activities must be reconfirmed. Regular development and integration testing activities by the System Integrator are particularly essential for offshoring, where there will potentially be less visibility or direct control over the development environment. Additional code review must also be conducted to a level that is agreed by MoJ IT IA to be commensurate with the value of the information that will be handled by the live application, or otherwise accessible to the live application.

**REQUIREMENT 10:** Security Enforcing Functionality elements of MoJ applications must not be offshored. For other elements of application code which process, store and transmit sensitive MoJ information assets, an onshore security code review must be conducted. This should be to a level that is agreed by MoJ IT IA to be commensurate with the value of the information handled by the live application, or otherwise accessible to the live application. This is likely to include a combination of manual and automated testing, and should be supplemented by a more comprehensive ITHC scope where appropriate.

The basic principle of ensuring thorough testing during every stage of application development must be reinforced where elements of development and/or maintenance are to be offshored. Requirements for testing against internationally recognised standards (e.g. the [OWASP standard for secure code development](#)) must be secured in supplier contracts and flowed down to offshore and other subcontractors. A test data strategy must be agreed prior to contract award. A high-level test strategy must also be agreed prior to contract award, and should be developed and maintained as a living plan as the project evolves. There should be assurance that provision for testing is adequate to mitigate the Information Assurance and other System Integration risks identified.

Testing, including security testing, must be conducted at every stage of the development (unit testing, integration testing, acceptance testing, etc). The MoJ must retain executive control over the testing process, maintaining visibility of all test results and progress on remedial activities. This includes control by MoJ IT IA over security elements of testing. The MoJ must be contractually able to exert control over testing, through clauses to reject as substandard any delivery where test scopes are not agreed by the MoJ, where results are not fully disclosed or where remedial activities are deemed to be insufficient.

Some applications which are deemed to be relatively low value in themselves may be used to handle information with a significantly higher value, or may be able to easily access sensitive information (for example, other information within the same business domain or information that is directly accessible from connections to servers in other business domains). Additional code review must also be conducted as part of the development testing of these applications, with particular emphasis on Security Enforcing elements of the application. In some cases, the MoJ Accreditor and the IA Team may require the use of automated test tools and/or line-by-line code review for elements of the application to be conducted by UK Security Cleared personnel at onshore locations.

In some cases, the additional testing overhead required will outweigh the benefits gained by offshoring. This is most likely for particularly complex and/or sensitive applications. Back-doors and vulnerabilities become increasingly easy to engineer (either deliberately or accidentally) for complex applications, and increasingly difficult to identify. Based on experience, it is likely that suppliers will underestimate the true time and expense that would be necessary to test complex applications. It is important that supplier proposals are realistic about the benefits of any offshoring elements of the proposals, and have accommodated realistic costs for testing to address offshoring risks. Where test costs are not realistic, this does not represent a cost saving for the MoJ. If the supplier is not making an acceptable profit on a contract, then relationships between the supplier and the MoJ will undoubtedly deteriorate. The supplier is likely



to try to recoup losses by streamlining test processes (driving operational risk); by reclaiming costs from elsewhere (driving project cost); or by delivering below expectations or not at all (driving project risk). Such unrealistic proposals should be either corrected or rejected during supplier selection and contract award.

### Use of Landed Resources

**REQUIREMENT 11:** Where landed resources are used to support project activities they must be vetted to a level appropriate for the value of the information assets and collateral assets that will potentially be available to them. Where it is not possible to meet some BPSS evidence requirements, suitable alternative evidence must be obtained and compensating controls such as technical lockdown, supervision and monitoring must be applied. If it is not possible to lock down the physical environment to the satisfaction of MoJ IT IA then landed resources must not be used. For higher levels of clearance such as SC, if a landed resource cannot achieve the required level of clearance or if there are prohibitive conditions on the individual's clearance, then that landed resource must not be used.

The most basic level of Government security checking, the [Baseline Personnel Security Standard \(BPSS\) check](#), is designed to provide an assessment of three key features of the individual to be vetted: their identity; their right to work; and the reliability, integrity and honesty of those individuals.

The BPSS requires that an individual's identity be confirmed, by matching some evidence of identity such as a passport or drivers licence, with evidence of address and activity in the community such as bills and bank statements. This provides a level of information that can be followed up for UK applicants if an individual raises any particular concerns. Further checks can be cheaply and easily conducted, to provide additional evidence that an individual with the asserted identity and address exists, and to confirm that the individual asserting that identity and address is not attempting identity theft. Where individuals originate from outside of the UK, and have not been in the UK for a suitably long period of time, it can be more difficult to obtain a suitably reliable history for those individuals (long-term footprint) to support effective screening. The Baseline Standard requires at least three years' worth of previous employment history. From experience, it is considered that a commensurate length of time is also required to build up a suitably rich credit history and social footprint to enable reliable checks to be conducted.

Even confirming an individual's true identity may be problematic in some non-EU locations, where proofs of identity may be non-existent or considerably less reliable. It should also be noted that, for countries where record-keeping is managed locally rather than centrally, engagement at a local level to support checks can very quickly become prohibitively expensive for a moderately-sized workforce and/or where there is a high rate of staff turnover.

Personal and employers' references are used, partly to support confirmation of identity, and partly to enable checking of an individual's reliability, integrity and honesty. Criminal records declarations and supporting criminal records checks are also used as part of BPSS clearance. Criminal record checks for UK citizens are generally comprehensive and accurate. However, the accuracy of police and criminal records checks varies widely between different countries. The CPNI has compiled [information on such checks for a reasonably broad set of overseas jurisdictions](#). The CPNI documentation also provides useful information on the reliability of identify checks overseas. A risk-balance decision by the SIRO is likely to be required on whether to accept the additional BPSS vetting risk for the offshore workforce.

To compensate for any shortcomings or uncertainty in vetting, landed resources brought to the UK are likely to require a heightened level of monitoring and supervision, as well as additional technical measures to limit and audit their physical and logical access to HMG information systems. HMG information systems to which landed resources have access must be locked down and supported by tight access controls over-and-above the usual HMG baseline.

Where higher levels of clearance such as SC are required it may not be possible for a specific landed resource to achieve the required level of clearance, or there may be prohibitive conditions on the individual's clearance. In those cases, the specific landed resource must not be used. For example, a non-UK National who has been within the UK for a sufficiently long period of time may be able to obtain an SC clearance. However, if a role requires handling of UK Eyes Only material, then the prohibitions on the SC clearance for that non-UK national would make them inappropriate to use for that role.

In exceptional circumstances, the use of landed resources from countries where Special Security Regulations Apply, or to countries in which there is a Substantial Security Threat to British Interests, depending on why that specific country is on the list. The MoJ ITSO should be consulted in such cases and will advise the business on suitability, weighing up all of the relevant factors and assessing the extent to which the proposed compensating controls mitigate the risk.

## Assessment Activities

Every offshoring decision must be made on a case-by-case basis, after balancing all of the facts of the situation. The project activities required to ensure this are set out below.

### REQUIREMENT 1 and REQUIREMENT 2

#### *Project Scoping & Supplier Selection*

MoJ Project Team:

- Ensure that the MoJ SIRO, MoJ Accreditor, MoJ IT IA and MoJ Central IA are engaged from project conception.
- Ensure that any contracts which may require personal data to be offshored outside of the EEA include suitable contractual clauses developed from reliable templates. For example, for personal data transferred outside of the EEA, the European Commission [approved model clauses](#) as per Directive 95/46/EC of the European Parliament and of the Council, provides a useful template. The legal framework for managing the export of Protectively Marked information must be no less restrictive than this. Consider whether additional contractual clauses are required to mitigate risk and avoid legal problems arising from local laws and jurisdictional issues.
- Ensure that offshoring elements of all Invitation To Tender (ITT) or other supplier requirements documentation are developed in consultation with MoJ Legal functions, DACU, and the MoJ Accreditor and MoJ IT IA. Ensure that these parties are key reviewers for all tender requirements.
- On the advice of the Accreditor, DACU, MoJ IT IA, and MoJ Central IA, present and obtain approval for a SIRO Submission comprehensively setting out the risks and mitigations of any offshoring proposals.
- Understand and advise the SIRO of any requirement that may exist for a submission to the Cabinet Office IA Delivery Group. Prepare any required submission on behalf of the SIRO, for approval.
- Ensure that the operational assessment and investment appraisal of competing supplier proposals factors in the additional MoJ IT IA effort requirement to address offshore elements of the proposal, as per [Requirement 11](#) below.
- Reject any bids that do not meet IA, DACU or Legal requirements for offshoring.

MoJ Accreditor/IA:

- Develop the elements of tender requirements which cover offshoring constraints and requirements.
- Review outsourcing elements of supplier bids and other proposals.
- Advise the MoJ Project Team on the suitability of offshoring proposals.

**Note:** MoJ IA includes both MoJ IT IA and the MoJ Central IA team. Both IA functions should be kept informed and engaged about offshoring proposals.

#### *Contract Award*

MoJ Project Team:

- Ensure that offshoring requirements and constraints are worked up to a robust level of detail within the final supplier contract, and subject to a further round of review by the MoJ Accreditor and MoJ IT IA prior to acceptance and contract award.
- Update any SIRO Submissions and submissions to the Cabinet Office IA Delivery Group to reflect the changes in the information risk between project scoping and contract award. Obtain acceptance for any changes from the SIRO prior to acceptance and contract award. Engage MoJ IT IA to advise and liaise with the SIRO.

MoJ Accreditor/IA:

- Provide review support and remedial input to the MoJ Project Team.

#### *Development*

MoJ Project Team:

- Use supplier audit as a mechanism to ensure that contractual requirements are being met. Where supplier indiscretions are found enforce remedial action.
- Where remedial action is not implemented, or ineffectually implemented, invoke contractual penalty clauses.
- Add and maintain any submissions to the SIRO and the Cabinet Office IA Delivery Group as necessary. Engage MoJ IT IA to advise and liaise with the SIRO.

MoJ Accreditor/IA:

- Provide review support, remedial input and recommendations to the MoJ Project Team.

#### *In-Service & Beyond*

MoJ Service Management:

- Use supplier audit as a mechanism to ensure that contractual requirements are being met. Where supplier indiscretions are found enforce remedial action.
- Where remedial action is not implemented, or ineffectually implemented, invoke contractual penalty clauses.
- Add and maintain any submissions to the SIRO and the Cabinet Office IA Delivery Group as necessary. Engage MoJ IT IA to advise and liaise with the SIRO.

MoJ Accreditor/IA:

- Provide review support, remedial input and recommendations to the MoJ Project Team.

### **REQUIREMENT 3**

#### *Project Scoping & Supplier Selection*

Supplier:

- Identify what hardware, software and information assets need to be offshored.
- Set out asset valuations for the Confidentiality, Integrity and Availability of all assets. Core information assets must be valued according to the SAL and clarification sought for any ambiguities. Collateral information assets (crypto, credentials, etc) must be valued in line with MoJ and HMG guidance.
- Asset valuations for all hardware and software assets must be clearly justified in the proposal documentation, and submitted to the MoJ Accreditor for review.

MoJ Project Team:

- Ensure that supplier proposals include unambiguous asset valuations. Request clarification on any points of ambiguity. Ensure that the Information Asset Owner(s), the Accreditor and MoJ IT IA are engaged on an on-going basis.
- Reject any proposals that do not meet with Requirement 3.

MoJ Accreditor/IA:

- Ensure that a clear and detailed SAL is generated on a per-project basis, setting out the valuations for all information assets.
- Review hardware, software and asset valuations on supplier proposals.

#### *Contract Award*

MoJ Project Team:

- Ensure that the supplier contract includes an explicit requirement to develop and maintain hardware, software and information asset registers. The requirement should explicitly stipulate that registers be maintained in the MoJ standard format, or in an equivalent format which contains (as a minimum) all of the information in the MoJ standard format. Ensure that the supplier is supplied with a copy of this standard format in advance of contract award, so that they can take any additional overheads into account in their proposal.
- Ensure that the supplier contract includes a right of audit, including no-notice audit, by the MoJ. The scope of audit must encompass hardware and software asset registers, all hardware and software assets, and all other elements related to the provision (physical sites, personnel, etc.)

MoJ Service Management:

- Maintain a MoJ standard format for hardware and software asset registers.

#### *Development*

Supplier:



- Develop and maintain hardware, software and information asset registers, covering all hardware, software and information assets. This must be developed in the MoJ standard format, or in an equivalent format which contains (as a minimum) all of the information in the MoJ standard format.

MoJ Project Team:

- Maintain visibility of the hardware, software and information asset registers. Ensure that there is a regular joint (supplier/MoJ) activity to audit physical and software assets against these registers. Conduct irregular spot audits of assets against the registers. Ensure that remedial activity is time-lined, tracked and completed according to schedule by the supplier.

MoJ Accreditor/IA:

- Advise physical and logical audit of assets, and remedial activity.

### *In-Service & Beyond*

Supplier:

- Ensure that the hardware, software and information asset registers are maintained as part of an ITIL service wrap for the delivered service. This must be maintained in the MoJ standard format, or in an equivalent format which contains (as a minimum) all of the information in the MoJ standard format.

MoJ Service Management:

- Maintain visibility of the hardware, software and information asset registers. Ensure that there is a regular joint (supplier/MoJ) activity to audit physical and software assets against these registers. Conduct irregular spot audits of assets against the registers. Ensure that remedial activity is time-lined, tracked and completed according to schedule by the supplier.

MoJ Accreditor/IA:

- Advise physical and logical audit of assets, and remedial activity.

## **REQUIREMENT 4 and REQUIREMENT 5**

### *Project Scoping & Supplier Selection*

Supplier:

- Ensure that any potential requirements to offshore any elements of service delivery are explicitly communicated with the MoJ as part of the tender response.

MoJ Project Team:

- Ensure that suppliers are explicit about any proposals for offshoring any elements of the delivery when they develop their bids to supply a capability.
- Ensure that the Accreditor, the IA Team, DACU and MoJ Legal advisors are aware of any potential requirements to offshore elements of the delivery.
- Work with the Accreditor and MoJ IT IA to identify and resolve any potential IA issues for work at these offshore locations or involving personnel from these locations.
- Work with DACU to identify and resolve any potential DPA issues for work at these offshore locations or involving personnel from these locations.
- Obtain confirmation from MoJ Legal Advisors that work at these offshore locations or involving personnel from these locations will not cause any potential conflict with UK Law or leave the MoJ exposed to any additional legal liability.
- Reject any proposals that do not meet with Requirement 4 or Requirement 5.

MoJ Accreditor/IA

- Advise the project team on any potential offshoring problems and unacceptable offshoring proposals, and recommend mitigation options where necessary.

### *Contract Award*

MoJ Project Team:

- Ensure that the supplier contract explicitly prohibits offshoring except where locations and controls are explicitly set out within the contract.
- Ensure that the contract prohibits offshoring to CSSRA and Substantial Security Threat countries, and any other identified problem countries, and that the contract contains flow-down provisions of all offshoring constraints for all subcontracts.
- Ensure that the supplier contract includes a requirement to consult the MoJ before offshoring any elements of the delivery except where explicitly set out in the contract.
- Ensure that the Accreditor and MoJ IT IA are critical reviewers for all supplier contracts with an offshoring requirement.

MoJ Accreditor/IA:

- Advise the MoJ Project team on what countries are currently on the lists, and advise on exceptions on a case-by-case basis.
- Review offshoring elements of supplier contracts.

### *Development*

Supplier:

- Ensure that any potential emerging requirement to offshore any elements of delivery are communicated immediately to the MoJ.

MoJ Project Team:

- Deal with any emerging requirements on a case-by-case basis, through engagement with the Accreditor, the IA Team, DACU and MoJ Legal advisors, and Information Asset Owners.

### *In-Service & Beyond*

Supplier:

- Ensure that any potential emerging requirement to offshore any elements of delivery are communicated immediately to the MoJ.

MoJ Service Management:

- Deal with any emerging requirements on a case-by-case basis, through engagement with the Accreditor, the IA Team, DACU and MoJ Legal advisors, and Information Asset Owners.

## **REQUIREMENT 6**

### *Project Scoping & Supplier Selection*

Supplier:

- Conduct an initial IS1 Risk Assessment, In line with the MoJ-provided threat assessment, which includes offshoring risks. This must include an HMG GPG6 compliance assessment, highlighting specific low-level risks due to any offshoring proposals, as part of the overall proposal to supply a capability.
- Develop a specific Risk Management Plan to address offshoring threats and risks, detailing how these identified will be mitigated. The Risk Management Plan must provide an estimate of the costs required to implement the proposed mitigations, and any consequent issues that may arise.
- Conduct a Privacy Impact Assessment (PIA) for the proposed solution, including an assessment of the PIA requirements covering the elements of information to be outsourced and documenting how the proposals meet these requirements.

MoJ Project Team:

- Ensure that suppliers are aware of the requirement to include an IS1 Risk Assessment, HMG GPG6 compliance, and supporting low-level risk assessment.
- Reject any proposals that do not contain a PIA, or which contain a PIA that is deemed by DACU, the MoJ Accreditor, or MoJ IT IA to be inadequate.
- Reject any proposals that do not contain a risk assessment, or which contain a risk assessment that is deemed by the MoJ Accreditor and MoJ IT IA to be inadequate.

- Reject any proposals where the mitigations proposed in the Risk Management Plan are deemed by the MoJ Accreditor and MoJ IT IA to be inadequate, or the costs of implementing those mitigations are deemed by the MoJ Security Architecture Team to be unrealistic.

MoJ Accreditor/IA

- Develop bespoke threat assessments and advice for any proposed offshore locations and for use of non-UK personnel for development. Engage with the UK Security Authorities as necessary to support this.
- Review Risk Assessment elements of supplier proposals.

### *Contract Award*

MoJ Project Team:

- Ensure that the supplier contract includes terms requiring the supplier to update the Risk Assessment and Risk Management Plan, including offshoring considerations, immediately following contract award and maintain this as a through-life activity. As a minimum, the supplier should be required to update the risk assessment (and have this approved by the MoJ) for any contract change and as part of the acceptance criteria for each distinct phase of the development.
- Ensure that the Accreditor and MoJ IT IA are critical reviewers for all supplier contracts with an offshoring requirement.
- Ensure that the outcomes of the PIA are folded into the supplier contract.
- Ensure that the project budget includes a suitable level of contingency to accommodate any changes in offshoring costs due to change in Threat Assessment for the offshore environment.

MoJ Accreditor/IA:

- Review offshoring elements of supplier contracts, including the terms and conditions surrounding risk assessment.

### *Development*

Supplier:

- Maintain the risk assessment, including offshoring considerations, in line with contractual requirements.
- Ensure that offshoring arrangements do not break obligations arising from the PIA.
- Maintain the Risk Management Plan, including offshoring considerations, in line with contractual requirements.

MoJ Project Team:

- Ensure that suppliers meet their contractual obligations regarding risk assessment and PIA.

MoJ Accreditor/IA

- Provide support for any required review of the supplier risk assessment, including offshoring considerations, in line with contractual requirements.

### *In-Service & Beyond*

Supplier:

- Maintain the risk assessment, including offshoring considerations, in line with contractual requirements.
- Ensure that offshoring arrangements do not break obligations arising from the PIA.
- Maintain the Risk Management Plan, including offshoring considerations, in line with contractual requirements.

MoJ Service Management:

- Ensure that suppliers meet their contractual obligations regarding risk assessment and PIA.

MoJ Accreditor/IA

- Provide support for any required review of the supplier risk assessment, including offshoring considerations, in line with contractual requirements.

## **REQUIREMENT 7**

### *Project Scoping & Supplier Selection*

Supplier:

- Identify any potential offshoring requirement as soon as possible in the tender process. Where proposals include an element of offshoring, it must be explicitly stated in the supplier's response to the security requirements. This must explicitly state how security will be maintained in an offshore context (including responses to User Security Requirements, System Security Requirements, etc.)

MoJ Project Team:

- Ensure that supplier proposals to deliver a capability are demonstrably compliant with offshoring security requirements.
- Reject any proposals that the MoJ Accreditor and MoJ IT IA deem to either not address security requirements comprehensively enough or not give sufficient weighting to these requirements.

MoJ Accreditor/IA:

- Engage with the MoJ Project Team and the supplier to support development and assessment of MoJ security requirements, including offshoring requirements, for the capability.

### *Contract Award*

MoJ Project Team:

- Ensure that the supplier contract specifically mandates compliance with all offshoring security requirements.
- Ensure that the supplier contract mandates blanket flow-down of all contractual constraints and obligations to all of the suppliers' suppliers, all of the way down the supply chain.
- Ensure that the contract makes provision for routine and no-notice audit of supplier compliance with offshoring requirements, at any-and-all supplier locations and subcontractor locations that are relevant to the work.

MoJ Accreditor/IA

- Support the MoJ Project Team in the development of contractual requirements around offshoring. Review contractual clauses relating to offshoring.

### *Development*

Supplier:

- Inform the MoJ upfront if any emerging requirements develop to offshore elements of the solution. Demonstrate how these requirements will be compliant with contractual obligations, and highlight and contractual obligations that would need to be relaxed in order for the proposal to work, balancing this against the potential benefit and considering a range of practicable options (as determined through engagement with the MoJ Project Team, the MoJ Accreditor and MoJ IT IA. Work with MoJ to ensure that this can be managed in a secure way.

MoJ Project Team:

- Retain engagement with the MoJ Accreditor and MoJ IT IA for all aspects of the project development relating to offshoring.

MoJ Accreditor/IA:

- Provide support to the MoJ Project Team on offshoring, including direction for audit, remediation and emerging requirements as necessary.

### *In-Service & Beyond*

Supplier:

- Inform the MoJ upfront if any emerging requirements develop to offshore elements of the solution. Demonstrate how these requirements will be compliant with contractual obligations, and highlight and contractual obligations that would need to be relaxed in order for the proposal to work, balancing this against the potential benefit and considering a range of practicable options (as determined through engagement with the MoJ Project Team, the MoJ Accreditor and MoJ IT IA. Work with MoJ to ensure that this can be managed in a secure way.

MoJ Service Management:

- Retain engagement with the MoJ Accreditor and MoJ IT IA for all aspects of ongoing development (e.g. third-line support) relating to offshoring.

MoJ Accreditor/IA:

- Provide support to the MoJ Project Team on offshoring, including direction for audit, remediation and emerging requirements as necessary.

## **REQUIREMENT 8**

### *Project Scoping & Supplier Selection*

Supplier:

- Ensure that proposals include an explicit assessment of compliance (including any points of non-compliance) of offshoring elements of proposals with relevant Legislation and Standards. This includes: the DPA and other relevant legislation; the HMG SPF and supporting documentation (specifically, but not exclusively, HMG IS6, HMG GPG6 and the SPF MRs themselves); relevant ISO standards (most notably [ISO27001](#) and [ISO25999](#)); Cabinet Office Guidance on IT Offshoring; and local MoJ IA Requirements.
- Ensure that named CLAS Consultant resources are used on the supplier proposal to ensure that this proposal addresses all relevant HMG IA requirements and documentation (including offshoring requirements), and is compliant with these.

MoJ Project Team:

- Ensure that MoJ IA Requirements are made available to suppliers, and that they are aware of their obligations to explicitly demonstrate compliance with offshore elements of their proposals against these.

MoJ Accreditor/IA:

- Engage with the MoJ Project Team and Supplier security resource to review supplier bids for compliance with HMG IA requirements and documentation (including offshoring requirements).

### *Contract Award*

MoJ Project Team:

- Ensure explicit supplier compliance with all relevant identified legislation and standards (as per the list set out in the previous column, plus any other relevant standards identified during the tender process) are set out in the contract.
- Ensure IA are engaged in the procurement process, and that IA concerns relating to offshoring elements of the contract are addressed to the satisfaction of the Accreditor prior to awarding the contract.

MoJ Procurement:

- Support the MoJ Project Team in the development of contractual requirements around offshoring. Review contractual clauses relating to offshoring.
- Ensure IA are engaged in the procurement process, and that IA concerns relating to offshoring elements of the contract are addressed to the satisfaction of the Accreditor prior to awarding the contract.

### *Development*

All:

- As per [Requirement 7](#), above.

### *In-Service & Beyond*

All:

- As per [Requirement 7](#), above.

## **REQUIREMENT 9 and REQUIREMENT 10**

### *Project Scoping & Supplier Selection*

Supplier:

- Ensure that the proposal includes provision for through-development testing, including security testing. Demonstrable compliance with the OWASP Testing Guide ([downloadable from the OWASP web-site](#)) is encouraged. The level of security testing required must be agreed with the Accreditor, and will need to be directly commensurate with the risk involved.

MoJ Project Team:

- Ensure that suppliers are aware of the requirement for testing, including not only functional testing but also security testing. Reject any proposals that do not make provision for this.
- Ensure that supplier proposals are realistic about the benefits of any offshoring elements of the proposals, and have accommodated realistic project costs and timescales for testing to address offshoring risks. Conduct an internal sanity check of supplier estimates for security and other testing. Reject any proposals where cost or time estimates are unrealistic.

MoJ Accreditor/IA:

- Support assessment of functional and security testing proposals.

### *Contract Award*

MoJ Project Team:

- Ensure that the contract requires the supplier to test the solution against internationally recognised standards at all stages of the development (unit testing, integration testing, acceptance testing, etc). Suppliers must be contractually required to agree test scopes, including security test scopes, with the MoJ before the start of testing. The MoJ must be contractually entitled to visibility of all test results and progress on remedial activities to the MoJ. Ensure that the scope of testing in the contract includes security testing of the solution, at a level agreed with the Accreditor and the IA Team.
- Ensure that the contract retains executive control over the test process by the MoJ, with the ability to reject substandard delivery, require remediation and enforce contractual penalty clauses.

MoJ Accreditor/IA:

- Review offshoring elements of supplier contracts, including test arrangements. Provide input to the Project Team as required to support contractual terms for test, particularly security elements of testing.

### *Development*

Supplier:

- Maintain a regular forum with the MoJ Project Team to discuss progress against test requirements and milestones, exceptions and remedial planning.

MoJ Project Team:

- Ensure that the Accreditor and MoJ IT IA are involved in test forum(s) during development. Proactively track progress of remedial action against test defects.

MoJ Accreditor/IA:

- Support test review and remedial activities.

### *In-Service & Beyond*

Supplier:

- Maintain a regular forum with the MoJ Project Team to discuss progress against test requirements and milestones, exceptions and remedial planning.

MoJ Service Management:

- Ensure that the Accreditor and MoJ IT IA are involved in test forum(s) during development. Proactively track progress of remedial action against test defects.

MoJ Accreditor/IA:

- Support test review and remedial activities.

## **REQUIREMENT 11**

### *Project Scoping & Supplier Selection*

Supplier:

- Ensure that any proposal to use landed resources is clearly stated. Ensure that any associated costs and risks are identified.
- Where landed resources are to be used, ensure that the proposal clearly sets out what information assets and collateral assets would be made available to those resources, how many landed resources are proposed, from where, what level of clearance would be required, and how clearance information requirements would be satisfied.
- Where clearance is not possible to an equivalent level for a landed resource as for a UK resource, identify what the additional residual risks of this will be, how it is proposed to mitigate these risks. The proposal should identify any practical difficulties with these arrangements and how they will be overcome, as well as setting out the additional costs involved.

MoJ Project Team:

- In liaison with the MoJ Accreditor and MoJ IT IA, ensure that proposals for using Landed Resources are realistic.
- Ensure that the costs associated with the use of landed resources have been fully considered in the proposal.
- Reject any unrealistic or un-costed proposals for use of Landed Resources.

MoJ Accreditor/IA

- Support assessment of security risk and residual risk with supplier proposals to use landed resources.
- Advise on the feasibility of using landed resources from high-threat countries if relevant.

### *Contract Award*

Supplier:

- Ensure that use of landed resources is in line with contractual requirements.

MoJ Project Team:

- Ensure that the supplier contract includes provision to enforce suitable security controls surrounding landed resources, as agreed during supplier selection.
- Ensure that the project budget includes a suitable level of contingency to accommodate any changes in offshoring costs due to change in Threat Assessment for landed resources.

MoJ Accreditor/IA:

- Review offshoring elements of supplier contracts.

### *Development*

Supplier:

- Ensure that all landed resources are vetted to a level commensurate with the value of the information to be handled by that landed resource. Where it is not possible to effectively vet a landed resource to the required level, landed resources must not be used.
- Inform the MoJ immediately if resource requirements change.

MoJ Project Team:

- Ensure that the MoJ Accreditor and MoJ IT IA are kept fully informed of any change in supplier requirements, and that no change in Landed Resource requirements is agreed without the explicit approval of the IA Team.
- Ensure that the supplier is kept fully informed of any change in Threat Assessment relating to landed resources and of the impact on project delivery.

MoJ Accreditor/IA

- Ensure that the MoJ Project Team are made aware of any change in Threat Assessment relating to Landed Resources, and of how this will impact the project.

### *In-Service & Beyond*

Supplier:

- Ensure that all landed resources are vetted to a level commensurate with the value of the information to be handled by that landed resource. Where it is not possible to effectively vet a landed resource to the required level, landed resources must not be used.

- Inform the MoJ immediately if resource requirements change.

MoJ Service Management:

- Ensure that the MoJ Accreditor and MoJ IT IA are kept fully informed of any change in supplier requirements, and that no change in landed resource requirements is agreed without the explicit approval of the IA Team.
- Ensure that the supplier is kept fully informed of any change in Threat Assessment relating to landed resources and of the impact on project delivery.

## Further Reading

Title	Version / Issue
<a href="#">CPNI Personnel Security in Offshore Centres</a>	04/2009
CPNI Good Practice Guide: Outsourcing: Security Governance Framework for IT Managed Service Provision	02/08/2006
CESG Good Practice Guide 16: Taking and Using Cryptographic Items Overseas	Issue 1.0, 08/2009
CESG Good Practice Guide 23: Assessing the Threat of Technical Attack Against IT Systems	Issue 1.0, 04/2010

## Notes

<http://www.owasp.org>

Wherever it is considered that there may be a requirement to use real or anonymised data, rather than synthetic data, the MoJ "Policy on the use of live personal data for the testing of IT systems, processes or procedures" must be complied with. For more information, see [this guidance](#).

A particular consideration for offshoring is DPA Principle 8: "Personal data shall not be transferred to a country or territory outside the European Economic Area unless that country or territory ensures an adequate level of protection for the rights and freedoms of data subjects in relation to the processing of personal data."

For example, an offshore organisation based in Country A, which provides second-line support for an MoJ application from Country A, might rely on teams from its offices in Country B to conduct development and third-line support activities. This would have an impact on the Threat Assessment and hence the risks to the capability.

The Baseline Standard requires at least three years' worth of previous employment history. From experience, it is considered that a commensurate length of time is also required to build up a suitably rich credit history and social footprint to enable reliable checks to be conducted.

<http://www.cpni.gov.uk/advice/personnel-security1/overseas-criminal-record-checks/>

For example, for personal data transferred outside of the EEA the European Commission approved model clauses as per Directive 95/46/EC of the European Parliament and of the Council, provides a useful template. This can be found at <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2002:006:0052:0062:EN:PDF>. The legal framework for managing the export of Protectively Marked information must be no less restrictive than this.

MoJ IA includes both MoJ IT IA and the MoJ Central IA team. Both IA functions should be kept informed and engaged about offshoring proposals.

The additional costs for offshore proposals will include potentially significant additional costs for IA and Accreditor resources to support bid assessment, solution review, initial Accreditation, re-accreditation and through-life support. An increased requirement for IA engagement and design scrutiny will be inevitable, and would need to be determined by IA. Activities such as audit and remediation are likely to involve an increased time overhead and travel expenses (e.g. for physical site visits to remote sites at overseas locations to conduct audits and follow-up remediation). Other additional project and in-service assurance is almost certain to be necessary.



## Logging and monitoring

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### Accounting

#### The base principle

Any access, and subsequent activity, to any system or data **must** employ adequate accounting techniques to ensure events can be attributed to the authenticated entity.

Accounting information must be stored in a way that it cannot be readily manipulated, particularly by the authenticated entity.

#### Log data security & governance

Log data can include Personal Data or inadvertent sensitive data (when an application or system is unexpectedly verbose) and must be adequately protected and governed in a comparable way to the original system's data.

#### Security-related log data retention

Log data created and processed for information security purposes should be retained for no longer than 2 (two) years by default (this is subject to any legislative or regulative compliance requirements) but for a minimum of 6 months.

These times are generalistic as a guide, and require contextual analysis particularly where Personal Data is involved.

### Security Log Collection

#### Security Log Collection Maturity Tiers

Ministry of Justice (MoJ) systems and services must adequately create and retain event data as part of the [DETECT](#) portion of the [Cabinet Office's Minimum Cyber Security Standard \(MCSS\)](#).

Three tiers have been developed to reflect the breadth and complexity of collecting and forwarding log data.

These three tiers represent different levels of risk profile, and concern about a system. All systems should be capable of meeting the baseline standard.

Some systems are at greater likelihood of compromise. This is due to factors such as age or public threats. Other systems would have a higher impact if compromised. This is due to the systems being sensitive or having distinctive perceived value. Such systems should be monitored to a higher standard.

The extent to which a security log collection process implements the monitoring requirement indicates the logging maturity.

Each level of monitoring - or 'tier' - has characteristics that are 'in addition' to lower level tiers. For example, a system operating at the Enhanced tier should also meet the requirements of the Baseline tier.



### **Baseline**

The baseline tier is the generally minimum expected for event types. It includes data that should be generated, recorded, and forwarded for onward analysis. It applies to all of the MoJ systems. In most cases, this requirement may be met through the underlying platform(s) on which the systems are built.

This tier covers the broad spectrum of events that can reasonably be used to detect compromise. It allows the defensive cyber team to respond appropriately before significant impact.

### **Enhanced**

The enhanced tier, in conjunction with the baseline event types, provides earlier notification of attempted compromise. It enables gathering of more information to detect stealthier or more capable attackers.

### **Bespoke**

The bespoke tier concerns systems that are critical to the security, stability and statutory function of the MoJ, or that contain highly sensitive data. In this tier, systems must generate additional bespoke (customised) event types. These event types are typically agreed in context between the MoJ Cyber Security team and the associated product or service team. The objective is produce logging that reliably identifies and captures key nuance and contextual security monitoring data, based on applicable threats and risks.

Last updated: April 20th, 2020.

# System acquisition, development and maintenance

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## Security requirements of information systems

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### Technical Security Controls Guide

#### Introduction

This guide explains the technical security controls that should be implemented on information systems developed, procured or operated by the Ministry of Justice (MoJ) or on its behalf. This guide aligns with [NIST 800-53](#) and the NCSC [Cyber Assessment Framework \(CAF\)](#). The guidance provides the MoJ with 3 phases or layers of defence. These controls must be implemented to ensure the MoJ's network infrastructure is secure.

#### Who is this guide for?

This guide has two audiences:

1. The in-house MoJ Digital and Technology staff who are responsible for implementing controls throughout technical design, development, system integration and operation. This includes DevOps, Software Developers, Technical Architects and Service Owners. It also includes Incident Managers from the Event, Problem, Incident, CSI and Knowledge (EPICK) Team.
2. Any other MoJ business group, agency, contractor, IT supplier and partner who in any way designs, develops or supplies services (including processing, transmitting and storing data) for, or on behalf of the MoJ.

#### What is an MoJ 'system'?

Within this guide, a system includes:

- Hardware - laptops, desktop PCs, servers, mobile devices, network devices, and any other IT equipment.
- Software - such as operating system (OS) and applications (both web-based and locally installed).
- Services - such as remote databases or cloud-based tools like Slack.

#### Related guides

[Defensive Layer 1: Creating a baseline security environment](#) Layer 1 sets out the technical controls required to build strong network foundations, including secure configuration and software development.

[Defensive Layer 2: Implementing monitoring capabilities](#) Layer 2 builds a monitoring capability for the network and extends existing security controls to mobile devices.

#### Technical Security Controls Guide: Defensive Layer 1

##### Defensive layer 1: Creating a baseline security environment

#### DO

The following security controls should be implemented to create a baseline security environment.

- ✓ Enforce access control through using [Multi-Factor Authentication \(MFA\)](#), security attributes and enforcing the 'need to know' principle. Dual authorisation must also be used to conduct sensitive system changes. For more information, see the [Access Control](#) guide.
- ✓ Implement host-based protection such as host firewalls and host based intrusion detection.
- ✓ Restrict the use of remote access connections, using the following controls:
  - The monitoring and control of remote access methods.
  - Ensuring all remote access methods are encrypted.
  - Enabling the capability to rapidly disconnect a user from accessing an information system, and/or revoking further remote access.

✓ Implement the following access control and security measures to protect Ministry of Justice (MoJ) wired and wireless networks:

- Restrict a user's ability to change wired and wireless configurations.
- Use strong encryption and authentication on both wired and wireless networks.
- Carry out regular audits of routers and wireless access points looking for unauthorised units.
- ✓ Synchronise timestamps with a primary and secondary authoritative time sources.
- ✓ Classify system connections, and apply restrictions to external systems and public networks.
- ✓ Test backup solutions at least every three months, to ensure data reliability and integrity.
- ✓ Use deny-listing/allow-listing tools for current and newly developed software.
- ✓ Enforce session lock controls with pattern-hiding displays.
- ✓ Use encryption to protect information. Encryption mechanisms should include:
  - Secure key management and storage.
  - PKI certificates and hardware tokens.
- ✓ Ensure that system component inventories:
  - Are updated as part of installation or removal tasks.
  - Have automated location tracking where possible.
  - Have clear and unambiguous assignment of components to systems.
  - Do not have component duplication.
- ✓ To protect the network against malicious actors and code, implement the following security controls:
  - Vulnerability scanning tools.
  - Intrusion detection systems.
  - Signature and non-signature based detection of malicious code or behaviour.
  - Software patching and updates.
  - Detection of unauthorised commands.
  - Tools for real-time analysis of logs.
  - Detection of indicators of compromise.
- ✓ When connecting to external networks and systems, ensure those network and systems provide secure connection, processing, storage, service controls and physical locations.
- ✓ Make provision for exceptional (excess) capacity or bandwidth demands, above what is required for 'typical' business as usual operations, and implement monitoring and detection tools for denial of service attempts.
- ✓ Where possible, ensure a redundant secondary system or other resilience controls are in place, using alternative security mechanisms and communication protocols.

## **DO NOT**

The following list identifies what should not be done, and what activities should be limited, to improve baseline security controls.

✗ Allow systems to release information from secure environments unless all the following security controls are implemented on the destination system:

- Boundary security filters.
- Domain authentication.
- Logical separation of information flows.
- Security attribute binding.
- Detection of unsanctioned information.
- Restriction of suspicious inbound and outbound traffic.

- ✗ Allow general users to make unauthorised configuration changes to the security settings of software, firmware or hardware. Any exceptions, such as software updates, must be risk assessed and approved by IT and the Risk Advisory Team.
- ✗ Allow users to install software. Instead, software installations should be approved first, and only users with privileged access should be permitted to conduct the installation.
- ✗ Allow split tunnelling without careful consideration of how traffic will remain protected.
- ✗ Allow inbound traffic from unauthenticated or unauthorised networks.
- ✗ Allow discovery of system components or devices on the network.
- ✗ Enable boundary protection settings that permit different security domains to connect through the same subnet.

### **Defensive layer 1: Creating a baseline security software development and system configuration**

#### **DO**

The following list describes what should be in place to create secure software development and configuration environments within the MoJ.

- ✓ If you are developing or maintaining systems or applications, use a development lifecycle and associated tooling which enforces security by design. Examples include:
  - Code analysis and testing.
  - Mapping integrity for version control.
  - Trust distribution.
  - Software, firmware, and hardware integrity verification.
- ✓ Use baseline configuration templates for critical and non-critical assets. These need to include:
  - Automation support for accuracy and currency, such as hardware and software inventory tools and network management tools.
  - Retention of previous configurations.
  - Separate development and test environments.
  - Cryptography management.
  - Unauthorised change detection
- ✓ Enforce binary or machine executable code are provided under warranty or with source code, and implement time limits for process execution.
- ✓ Verify the boot process, and ensure the protection of boot hardware.
- ✓ Implement low module coupling for software engineering.
- ✓ Enforce application partitioning.
- ✓ Take a 'deny by default' approach to boundary protection for both outbound as well as inbound. Example controls include:
  - Automated enforcement of protocol formats.
  - Separate subnets for connecting to different security domains.
- ✓ Enforce protocol formats.

#### **DO NOT**

The following list outlines the actions that should not be undertaken in relation to software development and secure configuration.

- ✗ Allow access privileges for library or production/operation environments for unauthorised users.
- ✗ Configuration changes or applications to go live without testing them in a non-live environment.
- ✗ [Use live data](#), including personal data, in system or application testing. Exceptions must be approved by the relevant SIRO and, if the live data contains personal data, the Data Protection Officer.

✘ Install or execute off-the-shelf software without ensuring appropriate support and security arrangements and agreements are in place.

## **Technical Security Controls Guide: Defensive Layer 2**

### **Defensive layer 2: Implementing monitoring capabilities**

#### **DO**

The following list identifies the security controls that should be implemented to mature existing Layer 1 controls and enable active monitoring of the Ministry of Justice (MoJ) network.

- ✓ Monitor login attempts and block access after 10 unsuccessful attempts.
- ✓ Implement session timeouts and block accounts after a defined period of inactivity, for example, 5 minutes.
- ✓ Implement a mobile device management solution to enable the wiping of mobile devices where access to the device has been lost or unauthorised access identified, for example, in the event of:
  - An identified data breach.
  - An identified policy breach such as jailbreaking a device.
  - A lost device.
  - The end of an employment contract, for example, for an employee or contractor.
- ✓ Use tools such as Elastic for easy storage, search and retrieval of information from logs, such as security, system or application logs collected from end points. Where artificial intelligence tools for searching these logs are available implement their use, an example might be AWS' Macie.
- ✓ Terminate network connections associated with communication sessions. For example the de-allocation of:
  - Associated TCP/IP address pairs at the operating system level.
  - Network assignments at the application level if multiple application sessions are using a single, operating system level network connection.
- ✓ Implement maintenance tools. For example:
  - Hardware/software diagnostic test equipment.
  - Hardware/software packet sniffers.
  - Software tools to discover improper or unauthorised tool modification.
- ✓ Use monitoring systems to generate alerts and discuss options with the Operational Security Team (OST).
- ✓ Have the capability to respond to alerts generated by the monitoring system or by users and discuss options with OST.
- ✓ Control the development and use of mobile code, whether developed in-house, third party or obtained through acquisitions, by following a formalised development and onboarding process, see the [Data Security & Privacy Lifecycle](#) guide.
- ✓ Implement concurrent session control which is defined by:
  - Account type, for example privileged and non-privileged users, domains, or applications.
  - Account role, for example system admins, or critical domains or applications.
  - A combination of both the above.
- ✓ Implement spam protection tools, which have the capability to:
  - Monitor system entry and exit points such as mail servers, web servers, proxy servers, workstations and mobile devices.
  - Incorporate signature-based detection.
  - Implement filters for continuous learning.
- ✓ Use error handling techniques, such as pop-up messages, which provide information necessary for corrective actions without revealing data that can be exploited by threat actors.

#### **DO NOT**

The following list describes what actions should **not** be undertaken when implementing Layer 2 security controls.

- ✘ Allow connections between internal and external systems without carrying out security checks.
- ✘ Allow the use of unauthorised software. Software must be approved by the MoJ. Contact the Cyber Assistance Team (CAT) for advice at [CyberConsultancy@digital.justice.gov.uk](mailto:CyberConsultancy@digital.justice.gov.uk).
- ✘ Allow general users to execute code on their mobile devices. Your devices should be able to:
  - Identify malicious code.
  - Prevent downloading and execution.
  - Prevent automatic execution.
  - Allow execution only in secured and segregated environments.
- ✘ Display internal error messages such as stack traces, database dumps, and error codes to users outside of the MoJ-defined personnel and roles.
- ✘ Allow unauthorised removal of maintenance equipment, for example, backup disks and power supplies.
- ✘ Decommission maintenance equipment without appropriate security controls, for example:
  - Verifying that there is no organisational information contained on the equipment.
  - Sanitising the equipment.
  - Retaining the equipment within the facility.

## Security in development and support processes

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### Maintained by Default

We believe that technology should be Maintained by Default, particularly in relation to security.

h/t <https://www.ncsc.gov.uk/articles/secure-default>

#### Good technical maintenance is security maintenance

Technical maintainence isn't just about patching or upgrades (but they often play a large and important part of maintenance) but more of refreshing designs, methods and approaches to leverage new technologies to increase quality, speed and performance and reducing costs.

Good technical maintenance (including patching and upgrades) includes security benefits whether that is patching a known security issue through to implementating newer cryptography methods that both benefit security but also reduce computational effort or enhance user privacy.

Good technical maintenance (just like other release or change paths) should include an appropriate amount of testing (outside of production) to understand any negative consequences of changes.

#### Commodity technical maintenance

The Ministry of Justice (MoJ) expect technology systems to be maintained to ensure the commodity functional elements do not become end of life, or cease function as a result.

Examples include:

- [automated] certificate renewals
- upgrading of hashing methods to implement new standards once they become commoly accepted best practices
- upgrading from SSLv3 to TLS, and from TLS1.[0/1] to TLS1.2, ultimately into TLS1.3 (and beyond)

### Secure by Default

We believe that technology should be Secure by Default. This means embedding security from inception, so that it is intrinsic and as transparent as possible.

h/t <https://www.ncsc.gov.uk/articles/secure-default>

## Good technical design is security design

Secure by Default takes a holistic approach to solving security problems. Security is treated as a core fundamental rather than a followup activity.

Embedding security within a design is directly comparable to good modern technical designs and fundamentally ensuring the 'thing' actually works.

## Secure by Default

The [National Cyber Security Centre \(NCSC\)](#) describe the Secure by Default principles as:

- security should be built into products from the beginning, it can't be added in later;
- security should be added to treat the root cause of a problem, not its symptoms;
- security is never a goal in and of itself, it is a process - and it must continue throughout the lifetime of the product;
- security should never compromise usability - products need to be secure enough, then maximise usability;
- security should not require extensive configuration to work, and should just work reliably where implemented;
- security should constantly evolve to meet and defeat the latest threats - new security features should take longer to defeat than they take to build;
- security through obscurity should be avoided;
- security should not require specific technical understanding or non-obvious behaviour from the user.

## Context is important

The principles above can generally be applied in most scenarios however interpretation and applicability in context can vary - the Ministry of Justice (MoJ) Cybersecurity team are here to help and advise.

NCSC also have a set of whitepapers which help explain some approaches to building products which align with these principles (and they add to them over time):

- [Building a secure feature-rich computing platform](#), such as a smartphone.
- [Storing sensitive data on consumer platforms](#)

## Test data

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### Using Live Data for Testing purposes

#### Summary

This document describes the use of live data during testing of Ministry of Justice (MoJ) systems. In general, using live data for testing purposes is considered bad practice. By default, the MoJ does not permit testing using live data. It is highly likely that simply using live data for testing purposes would not be compliant with GDPR.

Following this guidance will help you avoid problems, but cannot guarantee that you have addressed all the concerns. You must carry out a full Data Protection Impact Assessment.

#### Who is this for?

This guide is aimed at two audiences:

1. The in-house MoJ Digital and Technology staff who are responsible for testing systems as part of technical design, development, system integration and operation.
2. Any other MoJ business group, agency, contractor, IT supplier and partner who in any way designs, develops or supplies services (including processing, transmitting and storing data) for, or on behalf of the MoJ.

#### Do you really need to use live data?

According to [Information Commissioners Office](#), you may use either live or dummy data to test your products so long as they are compliant with data protection law. However, using dummy data may be preferable as it does not carry any risk to data subjects.



If you are processing live data, you will need to complete a Data Protection Impact Assessment beforehand if there is a possibility of risk to the data subject. The ICO has helpful information about using a [Sandbox](#) to help utilise personal data safely.

Data used for testing purposes must have characteristics that are as close as possible to operational data. But that is not the same thing as needing to use live data.

Check whether you really need to use live data, by considering the following questions:

1. **Speed:** What are your time requirements for test data provisioning?
2. **Cost:** What is an acceptable cost to create, manage and archive test data?
3. **Quality:** What are the important factors to consider related to test data quality?
4. **Security:** What are the privacy implications of these two sources of test data?
5. **Simplicity:** Is it easy for testers to get the data they need for their tests?
6. **Versatility:** Can the test data be used by any testing tool or technology?

The best test data simulates live operations data.

**Note:** It is important that test data is protected to the same standard as the live data. This is to ensure that details of the system design and operation are not compromised.

To protect test data, the following principles should be followed:

- The test manager must authorise the use of test data.
- Test data should be erased from a testing environment immediately after the testing is complete or when no longer required.
- The copying and use of test data should be logged to provide an audit trail.

**Note:** In the absence of an allocated test manager for a project, refer to the system owner.

By default:

- Data used for testing must not contain any live data.
- Using live data containing personal information is prohibited.

In exceptional circumstances, the use of live system data may be permitted. Permission to use live data is by exception only. A valid business case must be approved by the MoJ CISO, system assurer and the Information Asset Owner (IAO).

The Information Asset Owner must ensure that live data will be used lawfully, fairly and in a transparent manner in the interest of the data subject.

A thorough risk assessment, and a Data Protection Impact Assessment, should be carried out to ensure where interdependent applications, systems, services, APIs, BACS, XML, or processes, may be required, these are appropriately reviewed and security controls put in place.

## Anonymising data

It might be acceptable to 'anonymise' the live data such that it can be used more safely for testing purposes. Consider:

- Is it possible to do this?
- What processes can you follow to generate acceptable data?
- Is randomisation sufficient?
- What about obfuscation?
- When is production-like data acceptable (or not) for testing purposes?
- How do you ensure that production-like data is sufficient for testing purposes?
- What are the expectations regarding suppliers - for code, and for services?

If you are considering the anonymisation option, pay particular attention to specific types of data that are often sensitive. Examples of data that must be anonymised include:

- personal data revealing racial or ethnic origin
- personal data revealing political opinions

- personal data revealing religious or philosophical beliefs
- personal data revealing trade union membership
- genetic data
- biometric data (where it can be used for identification purposes)
- data concerning health
- data concerning a person's sex life
- data concerning a person's sexual orientation
- data concerning criminal offences
- email addresses
- bank details
- telephone numbers
- postal or residential addresses

This list is not exhaustive.

In general, recommendations for anonymising data include:

- Replace with synthetic data.
- Suppress (remove) or obfuscate.
- A useful link for anonymising telephone numbers is [here](#).

### Data Privacy considerations

The use of live data for testing, where the data contains personal information, is almost certainly incompatible with the initial specified, explicit and legitimate purpose(s) known to data subjects. In effect, the data subject didn't know that their data would be used for test purposes.

There are sometimes valid reasons when you do need to use live data for test purposes but they are normally the exception rather than the norm and typically looked at on a case by case basis where appropriate risk management calls can be taken.

Looking at datasets being pulled out of databases are a prime example of where you may need to use live data to make sure that a software application is functioning correctly. For some things it is not always possible to use synthetic data.

Where a project is considering the use of live data for test purposes, it is essential to understand the data first, to be clear about what GDPR related factors apply.

You might need to look at fair processing notices and take these into account around the context of the tests being performed.

**Note:** It may actually be illegal to perform planned tests if fair processing notices do not allow using the data for test purposes.

Where the data involves personal information, help must be obtained from the MoJ Data Privacy team. At the very least, you must revisit or update an existing Data Protection Impact Assessment.

If there is no option apart from using live data, some of the things that should be considered will include the following:

- How will the data be extracted or obtained, and who will perform or oversee the extraction? What clearance do they have?
- What controls are in place to extract the data?
- Where is the data going to be extracted to? In other words, what media or mechanism will be used? For example, is the data extracted using electronic means such as SFTP, or is the data extracted to removable media, or does it remain 'in situ'?
- How is this data going to be protected at rest and during transit?
- What systems will the data be copied to, and in what environments?
- What systems will the data be processed by?

- How will access to this information be controlled both at rest and during transit for all systems that are involved in processing it?
- What access controls are in place end to end?
- Once testing is complete how will the data be removed/destroyed? What assurances do you have over this?

If live data is being used for test purposes within the Production environment, then backups are key and the testing to make sure that backups can be quickly restored is a must. There needs to be a good rollback plan in place. There also has to be an appetite for risk acceptance.

### **Ensuring test data is GDPR compliant**

If you are intending to seek a special exception for using live data, or if you have anonymised the data but still want to have a satisfactory level of Data Privacy consideration, the follow points will help. Ensure that your test model has:

- Well-defined documentation of personal data information in all test environments.
- Effective data discovery to understand and unearth sensitive data information.
- Implemented a test data management process for the entire data life cycle that includes profiling, sub setting, masking, provisioning and archiving data in test environments.
- An irreversible 'on-the-fly' data masking process for production data within a repository.
- Permission and alerts in place for data exports and access outside the region, as this is restricted.
- Controls to prevent access to personal data from unauthorised access points, devices, or locations.

### **If testing is to go ahead Developer access**

In a normal working environment, developers working on an application, platform or service would be segregated away from access to live/production data. They would never be able to see or manipulate this data. The use of live data for test purposes would potentially negate or bypass these controls.

Also, developer roles are often specified as not requiring [SC clearance or above](#). This applies also to external (3rd party) software suppliers generating bespoke applications or services. The expectation is that the developers do not ever have access to live data.

The use of live data for testing may mean that the clearance levels for developers on a given project would need to be reviewed.

### **Preparing for tests**

Any code or tests involving live data should ensure the following:

- Code performs input validation.
- Output is correctly encoded.
- Full authentication and authorisation is in place.
- Session management is in place to ensure that code and data is not continually available outside the testing activities.
- Strong cryptography is used to protect data 'at rest', 'in transit' and 'in use'.
- All errors and warnings generated by applications, services, or recorded in logs are monitored, captured and actioned.
- A Data Protection Impact Assessment has been performed.
- Any backup processes will correctly filter out or otherwise protect the live data within the test environment.

# Supplier relationships

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## Information security in supplier relationships

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### Assessing suppliers

The Ministry of Justice (MoJ) assesses suppliers as a responsible public body managing public funds and data. These assessments range from commercial and legal for the purposes of contract through to risk assessments for the purposes of information security.

The MoJ utilises a range of [risk management](#) techniques including [information risk assessments](#).

Suppliers are expected to create, maintain and demonstrate a mature and considered approach to risk management when engaged with the MoJ.

#### Accreditation

The MoJ no longer accredits new systems or suppliers (as defined by CESG Information Assurance Standard 1&2).

The MoJ maintains accreditations where committed to by existing contract.

#### Commodity digital technology

MoJ assesses commodity digital technology supply chain such as Software-as-a-Service (SaaS) tools such as Google Workspace, Microsoft Office 365, Trello and AtlassianCloud based on the [Cloud Security Principles](#), information risk assessment techniques and shared data within HMG.

### Contractual promises

The Ministry of Justice (MoJ) embeds data governance and security-related clauses and schedules with contracts.

The MoJ is in the process of standardising and commoditising comprehensive clauses and schedules and will implement them over time.

### Security Aspects Letters

#### Purpose

The Ministry of Justice (MoJ) will issue a Security Aspect Letter (SAL) where appropriate.

SALs are generally not required at OFFICIAL but MoJ may issue a SAL where it is optimal to do so or to supersede existing SALs from the previous classification scheme.

This page was last updated on 2018-12-21

#### Template

Dear <NAME OR ROLE OF SECURITY DIRECTOR>,

#### Subject: Security Aspects Letter

This Security Aspects Letter ('SAL') establishes the security principles which <ORGANISATION LONG LEGAL NAME>, should be highest entity position such as the Group Plc> and/or its affiliates (together "<ORGANISATION SHORTNAME>") shall comply with in producing, handling or storing materials, information or data pertaining to the Ministry of Justice ('Authority').

This letter applies to <ORGANISATION SHORTNAME> and any relevant subcontractor within <ORGANISATION SHORTNAME>'s supply chain as required.

The following sections have been identified as the main areas where guidance is required. If there are any queries, please ask for clarification.

### **Purpose**

This SAL issued by the Authority intends to convey the security principles required of <ORGANISATION SHORTNAME> to appropriately and proportionately ensure adequate confidentiality, integrity and availability of Authority data.

The SAL is not a complete and exhaustive list of requirements and conveys the spirit of information security and risk management requirements.

<ORGANISATION SHORTNAME> is required to ensure a comprehensive approach to information risk management through procedural, policy, personnel, physical and technical controls while in possession of Authority information.

### **Markings**

This SAL has been developed under the premise that all information assets will be classified OFFICIAL under the [UK Government Security Classifications Policy \(GSCP\)](#) and that some may carry additional descriptors (for example, COMMERCIAL) to re-enforce handling requirements (such as 'need to know' principles) through the use of the SENSITIVE handling caveat.

All information must be considered OFFICIAL whether it bears a marking or not.

### **Handling Instructions**

It should be noted that assigning an appropriate classification to information remains the responsibility of the creator or owner of the asset. Information marked with the SENSITIVE handling caveat may state, or otherwise be accompanied by, additional handling requirements (for example to limit distribution or define additional access controls) which all recipients including the <ORGANISATION SHORTNAME> must comply with.

In general, the Authority expects <ORGANISATION SHORTNAME> to apply the need-to-know principle to information related to Authority systems, and restrict access to such material to those within <ORGANISATION SHORTNAME> (and its supply chain) who genuinely need it to perform their duties. General system information such as system names, IP addresses, high-level designs, etc does not require special handling protections.

### **Legacy Material**

Information marked under the previous classification scheme(s) (such as UNCLASSIFIED, PROTECT, RESTRICTED or CONFIDENTIAL) should be effectively considered OFFICIAL unless otherwise stated.

Information marked under previous classification schemes should be reviewed as to whether the information within requires handling caveat markings and/or particular handling guidance before being re-marked as OFFICIAL.

### **Data Aggregation**

In aggregation, the impact of a breach of any of these Security Aspects may be higher than the individual records or documents. <ORGANISATION SHORTNAME> should ensure that aggregated or accumulated collections of information assets are protected appropriately.

### **Data Offshoring**

<ORGANISATION SHORTNAME> is permitted to Process Authority data (including Personal Data) outside of the United Kingdom subject to the maintenance of adequate information controls and governance, including (not not limited to), the continuation of the protection of rights and freedoms of Data Subjects in relation to their Personal Data, adequate contractual controls and adequate consideration under the <ORGANISATION SHORTNAME> Information Security Management System (ISMS).

<ORGANISATION SHORTNAME> must not routinely transfer or otherwise Process Authority data within an incompatible legal framework to the United Kingdom - more information on this is available on suitable request from the Authority.

*Definitions are as per the Data Protection Act (2018)*

### **Policy Compliance**

Effective and appropriately scoped policy controls must be in place to underpin effective information management.

While related information security management certifications recognised by the British Standards Institution (BSI) such as ISO27001:2013, ISO27002:2013 and [Cyber Essentials Plus](#) are preferred, they are not required subject to comparable controls, policies and practices being in place.

A robust ISMS must be in place that ensures information assets are appropriately protected.

A holistic approach to information security must include staff awareness and training through to robust technical and enforced access controls.

### **Physical Security**

Physical locations (such as offices and data-centres) must have appropriate physical security characteristics to safeguard information from informational risks.

### **Personnel Security**

All personnel with direct or indirect access to, or influence over, information assets must achieve security clearance to at least the [HMG Baseline Personnel Security Standard \(BPSS\)](#).

Some roles and sites may require additional levels of clearance. These will be advised by the Authority to <ORGANISATION SHORTNAME> on a case-by-case basis.

All required security clearances must be achieved, and warranted to the Authority, prior to commencement of work by the individual unless otherwise agreed in writing by the Authority.

Full details of Security Clearance requirements are available with the Authority Vetting policy.

### **IT Controls**

#### **Systems**

IT systems must be assessed under <ORGANISATION SHORTNAME> ISMS to ensure an appropriate level of informational risk understanding and where applicable corresponding controls or risk mitigation strategies.

IT technical controls should make all efforts to align to current recognised good practices and be periodically reviewed (no less than 12 month intervals) to understand and re-align controls where appropriate. Best practices include, but are not limited to, encryption methods, multi-factor authentication and software life cycles.

<ORGANISATION SHORTNAME> must ensure system suitability as per the output of the <ORGANISATION SHORTNAME> ISMS prior to the introduction of non-test data.

<ORGANISATION SHORTNAME> must provide information risk management information to the Authority on request so that the Authority may determine whether the assessment made and controls in place are sufficient and robust.

Any remedial activity that may be required by the Authority will be considered under contractual and commercial arrangements however <ORGANISATION SHORTNAME> must acknowledge that systems must be fundamentally fit for purpose and capable of protecting information assets in proportion to their content and value as defined by <ORGANISATION SHORTNAME> and/or the Authority.

#### **Data transfer protections (data-in-transit)**

All Authority, or Authority related data (such as professional work product pertaining to or on behalf of the Authority), must be protected against negative events (such as interception, misdirection, manipulation or otherwise unintended outcome) while in transit.

The Authority considers application or transport level encryption to be sufficient at OFFICIAL subject to configuration guidance from the UK National Cyber Security Centre (NCSC) having been met.

Some examples of satisfactory approaches include, but are not limited to:

- Email systems meeting the '[Securing government email](#)' guidance
- Transport Level Encryption (TLS) version 1.2 and above aligned to NCSC recommended configuration(s)
- Internet Protocol Security (IPSec) aligned to NCSC recommendation configuration(s)
- NCSC-approved products or services for data transfer
- Authority-approved products or services for data transfer

<ORGANISATION SHORTNAME> should discuss with the Authority where deviations from NCSC recommendations may be required due to technological limitations.

### **SAL revisions**

The Authority reserves the right to issue a revised SAL at any time.

You are requested to acknowledge receipt of this letter and your acceptance of its terms as incorporated into your contract and binding within 14 days.

You are requested to confirm that the details of this SAL have been brought to the attention of the personnel directly responsible for the security of the services provided to, or in support of, the Authority, that they are fully understood, and that the security and information assurance requirements set out in the contract schedules can and will be taken to safeguard the material concerned within 28 days.

You agree to provide a SAL in similar form to all subcontractors, obtain their acknowledgement and provide a copy to the Authority within 28 days.

Yours sincerely,

**Chief Information Security Officer Ministry of Justice (UK)**

### **Declaration**

<ORGANISATION SHORTNAME> will be required to return a declaration.

*Please sign the declaration below and return this letter to the Authority, keeping a copy for your own records. Should you have any queries, please contact the Authority via your point of contact and/or the contact details located within the SAL.*

### **Supplier Declaration**

The <ORGANISATION SHORTNAME> hereby confirms that the associated with the requirements described in this Security Aspects Letter have been brought to the attention of the individuals and organisations directly responsible for the provision of the various services. Additionally, that they are fully understood, and that the required security controls can and will be taken to safeguard the material and assets concerned.

For and on behalf of <ORGANISATION SHORTNAME>

..... (name)

..... (position) [Should be at least Director level]

.....(date)

### **Distribution**

Internal within Authority:

Action:

- Authority Security & Privacy

Information:

- Director of Authority Service Delivery
- Head of Service Delivery
- Authority Commercial

External:

Action:

- <ORGANISATION SHORTNAME>

## Supplier corporate IT

The Ministry of Justice (MoJ) does **not** by default prohibit the use of supplier organisation corporate IT for the processing of MoJ data on the basis that the corporate IT environment is well designed, maintained, governed and defended in line with large scale commercial threat models.

Subject to the suitability described, the MoJ does **not** require suppliers to create or maintain dedicated or segregated IT solutions for the processing of MoJ data classified at OFFICIAL.

### Technical security

Supplier corporate IT systems are expected to maintain appropriate levels of technical security defences to proportionally defend all types of data within whether the supplier's own corporate data through to MoJ data being processed.

This will range (but not be limited to) the use of modern Transport Layer Security or IPSec for in-transit encryption through to modern hashing and cryptography mechanisms for data stored at-rest, whether a data entry in a database or the entire storage drive in a laptop.

Supplier systems are expected to be proportionally resilient to malware, ensuring segregation between systems, users and data and employ adequate commodity measures (such as email attachment scanning/filtering).

### Email security

Supplier corporate email systems processing MoJ data are expected to align to the [UK government secure email policy](#) which summarily requires widely accepted best practices.

Supplier corporate email systems are *not* required to technically integrate to the Public Services Network (PSN).

## Data Governance

### Data offshoring

Supplier's may process MoJ data (including Personal Data for which the MoJ is responsible) outside of the United Kingdom, subject to the maintenance of adequate information controls and governance.

MoJ data must not routinely be processed within an incompatible legal framework to the United Kingdom.

### *Working abroad*

Supplier staff are **not** prohibited from working abroad while processing MoJ data on the basis that adequate information controls and governance are maintained.

When working abroad, this may include limiting access to information while the user travels or using secondary temporary accounts to avoid primary account compromise.

### Data backups

Supplier corporate IT systems may backup data for extended retention times (for example, keeping archived or deleted emails for an additional few months). Backup systems may also exist in such a way that individual backup items cannot be individually deleted, and are subject to a system-wide backup rotation/retention schedule.

Subject to appropriate data governance, the MoJ acknowledges these cases.

### Local end-user device data

The MoJ acknowledges that corporate users typically 'download' files (from local email client caching to file downloads via a web browser) that can remain within 'Downloads' folders until explicitly deleted by the user.

MoJ expects suppliers to consider these types of data locations in data governance regimes, however it is appreciated that data destruction may be guidance based from the supplier organisation to supplier staff.



## Supplier service delivery management

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### Baseline for Amazon Web Services accounts

The Ministry of Justice (MoJ) has a 'lowest common denominator' for security-related promises, capabilities and configurations of MoJ Amazon Web Services (AWS) accounts.

The baseline is not a holistic list of dos and don'ts, but a *minimum* line in the sand for what 'at least' **must** be done.

#### The base principle

All MoJ AWS accounts **must** utilise a series of agreed configurations to enable and support good tenancy within AWS and a suitable cyber security posture.

#### Anti-solutionising

This baseline discusses outcomes not *how* the baseline will be achieved/implemented.

The MoJ Cyber Security team strongly encourage the use of the highest abstraction level of services available from AWS to achieve these goals, and minimising the amount of custom code and configuration which needs to be developed (and thereafter, maintained) to satisfy each baseline.

#### Security incidents

The CyberSecurity team should be added as a security contact for all Information security incidents generated by AWS. The contact details for an AWS Account can be updated using the reference [here](#).

- Full Name: Operational Security Team
- Title: Mx
- Email Address: [OperationalSecurityTeam@justice.gov.uk](mailto:OperationalSecurityTeam@justice.gov.uk)

#### Baseline GuardDuty

Leverage AWS' commodity IDS solution to detect/protect from malicious or unauthorised behavior.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
<a href="#">GuardDuty</a> is enabled on all accounts, in all regions, all of the time.	Alerts fire when GuardDuty is not enabled in a MoJ AWS account. Alerts fire for at least HIGH and above (or some version of) GuardDuty matches.	GuardDuty is automatically re-enabled.

#### CloudTrail

Leverage AWS' native activity audit platform (with adequate non-repudiation) to capture what AWS user (IAM etc) activity and changes are made within our AWS accounts

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
<a href="#">CloudTrail</a> is enabled within all accounts, all of the time. CloudTrail logs are carbon copied to an AWS account controlled by Cyber Security.	Alerts fire when CloudTrail is not enabled in an MoJ AWS account.	CloudTrail is automatically re-enabled.

## Config

Leverage AWS' native AWS configuration activity audit platform to capture what changes are being made to AWS configurations.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
<a href="#">Config</a> is enabled within all accounts, all of the time. Config logs are carbon copied to an AWS account controlled by CyberSecurity via CloudTrail.	Alerts fire when Config is not enabled in an MoJ AWS account.	Config is automatically re-enabled.

## Tagging

[Tag](#) all of our AWS objects, so we know they have a purpose and are intentional with defined ownership.

We have our own [infrastructure ownership/tagging standards](#).

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
All relevant AWS objects are tagged as per MoJ requirements.	Creating AWS user is notified automatically in increasing urgency when object is untagged. AWS account owner (and increasing escalation) is automatically notified when objects remained untagged.	Untagged objects are forcefully and automatically shutdown/disabled or isolated after 7 consecutive days of not being tagged.

## Regions

Do not use non-EU AWS [regions](#) for strategic compliance and performance reasons.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
No AWS account can create resources outside of AWS EU regions.	Alerts fire when non-EU resources are created to both the infrastructure teams and resource creator.	Non-EU resources are automatically and forcefully shut down after 12 hours.

## Identity and Access Management

Enforce [Identity and Access Management](#) and Joiners, Movers and Leavers (JML) within AWS. We also need to ensure accounts that legitimately exist are well protected.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
AWS user accounts have a defined and peer reviewed method for request/creation. Viable, authoritative and 'single source of truth' documentation exists to describe each AWS account and who should and should not have access (in terms of roles). Idle AWS user accounts are suspended. MFA is required, always, enforced by policy. Root user account usage is considered abnormal. Passphrase and/or MFA seed cycled on every AWS root account use.	AWS group account owners are alerted when new AWS accounts are created. Idle (30 or more consecutive days of non-activity) AWS user accounts issue suspension notices to AWS group account owners and target users. Where an account does not have MFA, the user and AWS group account owners are notified after 7 consecutive days. Any login or use of an AWS root account issues login alerts to the AWS group account owners.	Idle AWS user accounts are automatically suspended past threshold. Non-MFA AWS user accounts are automatically suspended past threshold. Alerts fire when an AWS root user account is used but the credentials are not updated within 7 days of utilisation.

For more information on MFA, see the [Multi-Factor Authentication guidance](#).

## Encryption

Leverage native AWS configuration options to make reasonable efforts to protect data.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
All AWS objects supporting encryption must have it enabled.	S3 buckets without suitable SSE-* encryption enabled are alerted to resource creator and account owner.	After 7 days of non-action, alerts are sent to central hosting infrastructure teams, Head of Hosting and MoJ Cyber Security.

## 'World' Access

Ensure that public access to AWS data storage and compute is intentional, to avoid the 'leaky bucket' problem, and to aid attack surface minimisation.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
All AWS S3 objects should be not world (public) readable unless specifically intended to do so.	S3 objects are programmatically reviewed (including 'open' ones) against the source infrastructure-as-code, if there is a mismatch the resource creator and AWS account owner notified.	After 7 days of non-action, alerts are sent to central hosting infrastructure teams, Head of Hosting and MoJ Cyber Security. After 7 days, the S3 object permissions are forcefully and automatically changed to remove 'world' access.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
Compute (for example, EC2 or ECS) instances should not be directly accessible from public networks unless through specific intentional design and should be behind CloudFront and/or applicable load balancing (preferring AWS LB technology). It must be truly exceptional for common service ports (for example, TCP80 or TCP443) to be served directly from compute resources.	Compute instances are programmatically reviewed to ensure they are not internet-accessible unless explicitly designed and documented to be so. If there is a mismatch the resource creator and AWS account owner notified.	After 7 days of non-action, alerts are sent to central hosting infrastructure teams, Head of Hosting and MoJ Cyber Security. After 7 days, the relevant security groups are forcefully and automatically changed to remove 'world' access.

### SecurityHub

[SecurityHub](#) enabled where possible.

Over time we will be able to leverage this more, but in the immediate future this will enable us to do CIS-based scans.

What must be in place	Monitoring	Resolution/Escalation if baseline is broken/violated
SecurityHub is enabled on all accounts, in all regions, all of the time.	Alerts fire when SecurityHub is not enabled in a MoJ AWS account.	SecurityHub is automatically re-enabled.

### Implementation

Various [AWS account baseline templates](#) have been developed and published for use.

## Compliance

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### Compliance with legal and contractual requirements

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#### Data destruction

##### Data Destruction

'Data destruction' is the process of erasing or otherwise destroying data stored on virtual/electronic or physical mediums such as, but not limited to, printed copies, tapes and hard disks in order to completely render data irretrievable and inaccessible and otherwise void.

##### The base principle

For legislative, regulative, privacy and security purposes, it **must** be possible to decommission and delete (irreversibly 'erase' or 'destroy') data and confirm to a degree of relative confidence it has been completed.

Data should be erased from all related systems, such as disaster recovery, backup and archival, subject to reasonable data lifecycle caveats.

##### Destruction standards

The following standards and guidelines are the *minimum* basis for data decommissioning or destruction. Follow and apply them as appropriate. There might also be extra steps specific to a data set or system.

- National Cyber Security Centre (NCSC) guidance on end-user device reset procedures: <https://www.ncsc.gov.uk/guidance/end-user-device-guidance-factory-reset-and-reprovisioning>
- NCSC guidance on secure sanitisation of storage media: <https://www.ncsc.gov.uk/guidance/secure-sanitisation-storage-media>
- NCSC Cloud Security Principle 2: Asset Protection and Resilience (Data Destruction): <https://www.ncsc.gov.uk/guidance/cloud-security-principle-2-asset-protection-and-resilience#sanitisation>
- Payment Card Industry Data Security Standard (PCI-DSS) (Data Destruction): <https://www.pcisecuritystandards.org>
- DIN: <http://www.din-66399.com/index.php/en/securitylevels>

Data Destruction for electronic/magnetic storage **must** include, unless otherwise superseded by NCSC, PCI-DSS or specific Ministry of Justice (MoJ) guidance:

- the revocation or otherwise destruction of decryption keys and/or mechanisms to render data inaccessible or otherwise void through the use of modern cryptography; AND/OR
- data overwriting methods consisting of at least 3 (three) complete overwrite passes of random data.

Data Destruction for printed materials **must** include, unless otherwise superseded by NCSC or specific MoJ guidance:

- paper cross-shredding methods to satisfy at least the DIN 66399 Level 4 standard with a maximum cross cut particle surface area 160 (one hundred and sixty) millimeters squared with a maximum strip width of 6 (six) millimeters

### Data lifecycle caveats

Automated systems involved in data management and associated lifecycles may not be capable of immediate destroying data on demand.

Examples of such systems are data backup and disaster recovery solutions that have a defined and automated data cycle and retention system.

There is generally no need to attempt to manually delete such data prior to the automated retention lapse as long as it is ensured that if the data is restored prior to data destruction it is not processed.

It is important that the final expected data where all data lifecycles will have completed to be readily identifiable with high confidence.

### Definitions

The current draft of the definitions that are required by the current draft short and long format data destruction clauses.

### Definitions to be added into definition contract schedule

Data Destruction - Data destruction is the process of erasing or otherwise destroying data or information whether in physical form (such as printed paper) or stored on virtual/electronic or physical mediums such as, but not limited to, tapes and hard disks; the purpose is to render data completely irretrievable and inaccessible, and therefore void.

Supplier - ?

Authority - ?

Buyer - ?

Data Process/Processing - means any operation or set of operations which is performed on data or on sets of data, whether or not by automated means, such as collection, recording, organisation, structuring, storage, adaptation or alteration, retrieval, consultation, use, disclosure by transmission, dissemination or otherwise making available, alignment or combination, restriction, erasure or destruction

### Long format clause

The current draft of the Ministry of Justice (MoJ) commodity long format data destruction clause.

Highlighted words indicate potential requirement for contextual change, requirement of definition and so on.

## Clause

### 1. Data Destruction

- a. The Authority requires the Supplier to ensure that Data Destruction has been adequately completed at the natural end and/or termination of contract as per Schedule XX.
- b. The Supplier shall take all reasonable commercial measures to ensure Data Destruction is an irrevocable action to prevent the reconstitution of data, in alignment with methods described in Appendix XX.
- c. The Supplier shall notify the Authority when data destruction has taken place, including the final date by which such destruction shall be complete in the case of scheduled data destruction or natural data management lifecycles such as through automated backup or disaster recovery systems.
- d. Where data cannot be immediately destroyed, access control methods must be put in place to limit the ability for Data Processing until data destruction can be completed.
- e. The Supplier shall provide evidence of data destruction on request from the Authority, including but not limited to, copies of third-party data destruction certificates, copies of internal policy and process documents in relation to data management and data destruction.
- f. The Supplier shall notify the Authority within 24 (twenty-four) hours of identification of unsuccessful or incomplete data destruction.

### Long format appendix

The current draft of the Ministry of Justice (MoJ) commodity long format data destruction appendix. The appendix is a dependency of the long format clause itself.

Highlighted words indicate potential requirement for contextual change, requirement of definition and so on.

### Appendix

The following standards and guidelines are the *minimum* basis for data decommissioning or destruction. Follow and apply them as appropriate. There might also be extra steps specific to a data set or system.

- National Cyber Security Centre (NCSC) guidance on end-user device reset procedures: <https://www.ncsc.gov.uk/guidance/end-user-device-guidance-factory-reset-and-reprovisioning>
- NCSC guidance on secure sanitisation of storage media: <https://www.ncsc.gov.uk/guidance/secure-sanitisation-storage-media>
- NCSC Cloud Security Principle 2: Asset Protection and Resilience (Data Destruction): <https://www.ncsc.gov.uk/guidance/cloud-security-principle-2-asset-protection-and-resilience#sanitisation>
- Payment Card Industry Data Security Standard (Data Destruction): <https://www.pcisecuritystandards.org>
- DIN: <http://www.din-66399.com/index.php/en/securitylevels>

Data Destruction for electronic/magnetic storage **must** include, unless otherwise superseded by NCSC, PCI-DSS or specific Authority guidance:

- the revocation or otherwise destruction of decryption keys and/or mechanisms to render data inaccessible or otherwise void through the use of modern cryptography; AND/OR
- data overwriting methods consisting of at least 3 (three) complete overwrite passes of random data.

Data Destruction for printed materials **must** include, unless otherwise superseded by NCSC or specific Authority guidance:

- paper cross-shredding methods to satisfy at least the DIN 66399 Level 4 standard with a maximum cross cut particle surface area 160 (one hundred and sixty) millimeters squared with a maximum strip width of 6 (six) millimeters

The required outcome is to ensure that Authority data is inaccessible by any reasonable commercial and resourced means (such as commercially available data recovery services).

### Short format clause

The current draft of the Ministry of Justice (MoJ) commodity short format data destruction clause.

Highlighted words indicate potential requirement for contextual change, requirement of definition and so on.

## Clause

The Supplier shall return all Authority Data in a machine-readable non-proprietary format defined by the Authority within 30 (thirty) calendar days of the end of the contract.

The Supplier must also state, ensure and warrant the final calendar date by which any associated data management lifecycle system(s) will be complete, including the manual or automated data destruction at the end of such period. Such data management lifecycle(s) may include, but are not limited to, the Supplier's supply chain and/or Data Processors, backup system(s) and/or disaster recovery and business continuity system(s). The Authority retains all applicable rights to instruct the Supplier to destroy all Authority Data according to the terms of this [G-Cloud] contract.

The Supplier is required to ensure adequate and complete Data Destruction of Authority Data, including any relevant and associated non-proprietary Supplier Data or work product stemming from the Buyer Data that the Supplier has not been otherwise permitted to retain or use.

Data Destruction must follow applicable guidance from the UK National Cyber Security Centre (NCSC) and/or the Payment Card Industry Data Security Standard (PCI-DSS) and/or DIN 66399.

Data Destruction for electronic/magnetic storage **must** include, unless otherwise superseded by NCSC, PCI-DSS or specific Authority guidance: the revocation or otherwise destruction of decryption keys and/or mechanisms to render data inaccessible or otherwise void through the use of modern cryptography; AND/OR data overwriting methods consisting of at least 3 (three) complete overwrite passes of random data.

Data Destruction for printed materials **must** include, unless otherwise superseded by NCSC or specific Authority guidance: paper cross-shredding methods to satisfy at least the DIN 66399 Level 4 standard with a maximum cross cut particle surface area 160 (one hundred and sixty) millimeters squared with a maximum strip width of 6 (six) millimeters.

## Instruction & Confirmation Letter

The current draft of a templated Ministry of Justice (MoJ) data destruction letter, that may be issued by the MoJ to a supplier. The letter describes required actions and information, followed by a responsive declaration from the supplier.

### Letter issued by MoJ

#### Background

For legislative, regulative, privacy and security purposes, it must be possible for Suppliers to decommission and delete (irreversibly 'erase' or 'destroy') data and warrant the same. Similarly, any storage media holding such data must be securely and comprehensively erased before reuse or disposal (such as at end-of-life).

An example of a data destruction obligation is where a Supplier (acting as a 'Data Processor', as defined by Data Protection legislation) working on behalf of, or supplying services to, the Ministry of Justice (the 'Data Controller', as also defined by Data Protection legislation). The Data Processor, including any sub-processor instructed or otherwise involved in Data Processing on the Data Processor's behalf, must comply with instructions from the Data Controller regarding data irrespective of any commercial contract or promise such as a Data Subject exercising the 'right to be forgotten'.

This document provides an acceptable data destruction baseline from the Ministry of Justice, and associated declaration. When followed completely, this baseline for data destruction is considered sufficient to comply with data decommissioning and disposable tasks (and corresponding supplier assurances) for material classified as OFFICIAL under the [UK HMG Government Security Classifications Policy](#) (including sensitive personal data or sensitive commercial data within the same).

#### Data Lifecycle

The Ministry of Justice informally acknowledge that automated systems involved in data management and associated lifecycles may not be capable of immediate decommissioning data on demand. Examples of such systems are data backup and disaster recovery solutions that have a defined and automated data cycle and retention system.

The Ministry of Justice require positive confirmation of the final date by which these systems will have completed their data lifecycle tasks and data destruction will have been completed by.



Where data cannot be erased immediately, there must be methods in place to limit and constrain access to the data until the data lifecycle is complete or manual intervention can be made and subsequent data destruction assured.

The Ministry of Justice reserves all rights regarding instructions relating to data. This includes any need for immediate data destruction.

## Standards

The following standards and guidelines are the *minimum* basis for data decommissioning or destruction. Follow and apply them as appropriate. There might also be extra steps specific to a data set or system.

- National Cyber Security Centre (NCSC) guidance on end-user device reset procedures: <https://www.ncsc.gov.uk/guidance/end-user-device-guidance-factory-reset-and-reprovisioning>
- NCSC guidance on secure sanitisation of storage media: <https://www.ncsc.gov.uk/guidance/secure-sanitisation-storage-media>
- NCSC Cloud Security Principle 2: Asset Protection and Resilience (Data Destruction): <https://www.ncsc.gov.uk/guidance/cloud-security-principle-2-asset-protection-and-resilience#sanitisation>
- Payment Card Industry Data Security Standard (PCI-DSS) (Data Destruction): <https://www.pcisecuritystandards.org>
- DIN: <http://www.din-66399.com/index.php/en/securitylevels>

Data Destruction for electronic/magnetic storage **must** include, unless otherwise superseded by NCSC, PCI-DSS or specific MoJ guidance:

- the revocation or otherwise destruction of decryption keys and/or mechanisms to render data inaccessible or otherwise void through the use of modern cryptography; AND/OR
- data overwriting methods consisting of at least 3 (three) complete overwrite passes of random data.

Data Destruction for printed materials **must** include, unless otherwise superseded by NCSC or specific MoJ guidance:

- paper cross-shredding methods to satisfy at least the DIN 66399 Level 4 standard with a maximum cross cut particle surface area 160 (one hundred and sixty) millimeters squared with a maximum strip width of 6 (six) millimeters

The required outcome is to ensure that Ministry of Justice data is inaccessible by any reasonable commercial and resourced means (such as commercially available data recovery services).

## Supplier declaration

*Please sign the declaration below and return this letter to the Ministry of Justice, keeping a copy for your own records. Should you have any queries, please contact the Ministry of Justice CISO via [security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)*

*Return electronically. Electronic signatures or otherwise positive confirmation are accepted.*

Chief Information Security Officer Ministry of Justice 102 Petty France Westminster, London SW1H 9AJ  
[security@digital.justice.gov.uk](mailto:security@digital.justice.gov.uk)

Date: \_\_\_\_\_

We hereby confirm that all Ministry of Justice data, including non-proprietary data generated through the provision of Service, has been suitably, appropriately, and irreversibly destroyed in its entirety and rendered permanently inaccessible and void.

Data backup, including disaster recovery systems, will automatically conduct appropriate data destruction as part of an automated data life cycle on or before the \_\_\_\_\_ (Strike as applicable)

Anonymised and/or non-Personal Data has been retained for statistical analytical purposes only. We warrant compliance with all applicable data protection and privacy legislation in this regard. (Strike as applicable)

Contract/project reference: \_\_\_\_\_

For and on behalf of organisation: \_\_\_\_\_



Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

## Data security and privacy

### Data Security and Privacy

We believe that our technology must keep data safe and protect user privacy.

Our digital projects contain important information. Serious data breaches might result if we fail to:

- protect information
- handle it correctly at all times
- dispose of it safely when it is no longer required

Breaches might cause:

- harm to individuals
- financial loss to the Ministry of Justice (MoJ)
- a loss of confidence in us as an organisation

For personal data, the EU General Data Protection Regulation (GDPR) and UK Data Protection Act (2018) apply. These make the consequences of data breaches very clear.

To follow the data regulation/legislation, we **must** ensure that:

- we protect data to the best of our organisation's capabilities
- we collect data only for described, lawful purposes
- we use data only for the described, lawful purposes

### Why are security and privacy important?

Breaches can have an adverse effect the relationship between citizen and government.

Not only do we have a duty to protect citizens data, but the penalties for violations are also severe. Under the GDPR, serious infringements can result in fines of up to €20M.

We must apply appropriate security and privacy protection to all the information we hold and process, at all times.

We should treat all data as sensitive unless proven otherwise.

All our work must follow this ethos.

### When this applies

This principle applies to **all** MoJ technology projects and business activities.

While GDPR applies only to personal information, all MoJ projects and tasks must have excellent data security and privacy characteristics. If they handle personal data, they must do so correctly. Projects must follow MoJ guidelines unless exceptional and approved circumstances apply.

The [Information Commissioner's Office \(ICO\)](#) - the UK's independent regulatory office for data protection - has published [guidance on how to determine what is personal data](#).

A Data Protection Impact Assessment (DPIA, formerly commonly known as a Privacy Impact Assessment or PIA) is required for all projects. There are some [exceptions described by the ICO](#).

### Data Security & Privacy Lifecycle Expectations

Below are a series of data security and privacy expectations of Ministry of Justice (MoJ) projects at various stages in their lifecycle.

These measures can help simplify and ease the burden of embedding data security and privacy at the heart of projects.

## Pre-Discovery and Discovery

Assess the data security and privacy implications of the project requirements thoroughly. Do this as part of the broader work addressing the project's strategic imperatives.

In particular:

- From the start of the project, and throughout its duration, think about how data security and privacy might affect the functionality and delivery of the project.
- Consult with technical architects to help inform and enhance the ways of delivering the work, whilst continuing to ensure compliance.
- Discuss any problems or ramifications that arise with legal or business experts. Identify areas where the required data security and privacy compliance might cause issues for functionality.

## Alpha

During this stage of the project lifecycle, internal and external (Cabinet Office / Government Digital Service) teams will perform service assessments. These will specifically check for aspects of GDPR/DPA18 compliance.

In particular:

- >That the majority of compliance considerations have been addressed at this stage.
- That the development team can say how their work ensures compliance.
- That the technical architecture choices can be tested against data security and privacy requirements. As an example, blockchain technologies might not be acceptable as they can prevent automated removal of information when it is no longer required.

## Beta (Private and Public)

These are assessments performed as the service transitions from Private to Public availability. The assessments are again performed by internal and GDS teams. Use live systems for the assessments.

In particular:

- All manually actionable data security and privacy requirements must be met.
- Manual testing is expected.
- Automatic deletion is not required yet, because the service is unlikely to have enough data at this stage. However, plans and mechanisms for automatic deletion should be in place.
- Data should be backed up exactly as expected for a live service.

## Live

These are the final (Live) service assessments. They are again performed by internal and GDS teams.

In particular:

- Data sharing aspects might not yet be fully defined. Other consuming or supplying systems might not have established dependencies on the information shared.
- Some aspects of reporting might still need manual action. The newness of the system makes business MI requirements a work-in-progress.

## Post-Live (Ongoing)

These are the tasks that enable the final aspects of security and privacy for your project.

In particular:

- The final automated tasks are ready. The project cannot close until these are done.
- Data security and privacy compliance checks move to an ongoing status. Reporting takes place as required to internal stakeholders or the ICO.
- Schedule and run regular data mapping exercises. These ensure full and current understanding of data flows to and from any organisations or systems that depend on the information.