

Security Technical and Organizational Measures (TOM) Appendix for Bag Journey service schedule

Version: June 2025

APPENDIX 2 FOR ANNEX A OF DATA PROTECTION AGREEMENT

1. Purpose

The Security Measures Appendix's purpose is to list all the technical and organizational measures (TOM) implemented by SITA to secure any personal data processed as defined in the Data Processing Agreement (DPA) to which this appendix is attached.

The security measures defined in section 3 implement the requirements of Article 32 of the EU General Data Protection Regulation (GDPR) and its protection objectives in concrete terms.

The detailed measures apply to the Service.

Evidence of the measures implemented and maintained by SITA may be requested by the Customer.

Relevant references to the respective ISO 27002:2022 controls are attached to each of the measures.

2. Definitions and Explanations

2.1. Explanation of GDPR principles (Art. 5)

Lawfulness, fairness, and transparency: the organization must identify valid grounds to process data, handle it in ways that people would reasonably expect and to inform people about their personal data being processed.

Purpose limitation: the organization must be clear about personal data processing purpose and specify it in privacy information for individuals. Valid ground must be obtained (e.g., consent) in case of new purpose.

Data minimization: the organization must ensure the processed personal data is adequate, relevant and limited to only what is necessary.

Accuracy: the organization must ensure the held personal data is accurate and take responsible steps to correct or erase the data as soon as possible if an inconsistency or error is discovered.

Storage limitation: the organization must not keep personal data for longer than needed and must justify how long is personal data kept, with clear retention periods. Held personal data should be reviewed, erased, or anonymized when no longer needed.

Integrity and confidentiality (security): the organization must ensure to have appropriate security measures in place to protect the held personal data.

Accountability: the organization must take responsibility for what it does with personal data and how it complies with other principles. Measures and records should be available to demonstrate compliance.

2.2. Definitions specific to this Appendix:

CAB: means Change Advisory Board which is the managerial instance supporting the assessment, prioritization, authorization, and scheduling of changes.

CIS benchmarks hardening guidelines: mean Center for Internet Security benchmarks hardening guidelines which are also called "CIS benchmarks", are recognized as security state-of-the-art measures for defending IT systems and data against cyberattacks and offer prescriptive guidance for establishing a secure baseline configuration.

CI/CD: means Continuous Integration and Continuous Development which is a modern software development practice in which incremental code changes are made frequently and reliably. Automated build-and-test steps triggered by CI ensure that code changes being merged into the repository are reliable. The code is then delivered

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quickly and seamlessly as a part of the CD process. The CI/CD pipeline refers to the automation that enables incremental code changes from developers' desktops to be delivered quickly and reliably to production.

CPU: means Central Processing Unit which is the component of a computer system that controls the interpretation and execution of instructions.

DPA: means Data Processing Agreement which is a legally binding contract that states the rights and obligations of each party concerning the protection of personal data.

Encryption means a computing process that encodes plaintext/cleartext (unencrypted, human-readable data) into ciphertext (encrypted data) that is accessible only by authorized users with the right cryptographic key.

HTTPS: means Hypertext Transfer Protocol Secure which is an internet communication protocol that protects the integrity and confidentiality of data between the user's computer and a website.

IDS: means Intrusion Detection System which is a device or software application that monitors a network or systems for malicious activity or policy violations.

IPS: means Intrusion Prevention System which is a system that can detect an intrusive activity and can also attempt to stop the activity, ideally before it reaches its targets.

IP: means Internet Protocol which is the principal communications protocol in the IETF Internet protocol suite for specifying system address information when relaying datagrams across network boundaries.

ITSM: means IT Service Management tool which is a software solution that helps organisations manage the lifecycle of IT services: provision, tracking changes, managing incidents and requests.

MFA: means Multi-Factor Authentication which is an authentication method that requires the user to provide two or more verification factors to gain access to a resource.

NTP: means Network Time Protocol which is an internet protocol used to synchronize with computer clock time sources in a network.

OWASP Top 10: means Open Web Application Security Project Top 10 which is a regularly updated report outlining security concerns for web application security, focusing on the 10 most critical risks observed in the industry at the moment of release.

RBAC: means Role Based Access Control model which is an approach to handling security and permissions in which roles and permissions are assigned within an organization's IT infrastructure and applications. Access permissions are assigned based on a defined role model. Defined user roles represent a set of work processes within the organization.

RTO: means Recovery Time Objective which is the maximum tolerable length of time that a computer, system, network or application can be down after a failure or disaster occurs.

RPO: means Recovery Point Objective which is the maximum acceptable amount of data loss after an unplanned data-loss incident, expressed as an amount of time.

SAST, DAST and/or SCA: means tools for a secure code review, being a specialized task involving manual and/or automated review of an application's source code to identify security-related vulnerabilities. Static Application Security Testing (SAST) aims at identifying common flaws before compiling a release. Dynamic Application Security Testing (DAST) aims at examining a running build and detect issues such as misconfiguration and error handling. Software Composition Analysis (SCA) is an automated process that identifies vulnerabilities in software libraries and open-source components licenses in a codebase. This analysis is performed to evaluate security, license compliance, and code quality.

Service: means Bag Journey service.

SoD: means Segregation of Duties which is the concept of having more than one person required to complete a task. It is an administrative control used by organisations to prevent fraud, sabotage, theft, misuse of information, and other security compromises.

TLS: means Transport Layer Security which is a cryptographic protocol that provides end-to-end security of data sent between applications over a network.

Transparent Data Encryption: means encryption of database at file level to secure data at rest.

VLAN: means Virtual Local Area Network which is a broadcast domain that is partitioned and isolated within a network at the data link layer. A single physical local area network (LAN) can be logically partitioned into multiple, independent VLANs; a group of devices on one or more physical LANs can be configured to communicate within the same VLAN, as if they were attached to the same physical LAN.

VPN: means Virtual Private Network which provides a secure, often encrypted connection between two private networks over a public network. A site-to-site VPN is designed to securely connect two geographically distributed sites. A remote access VPN is designed to link remote users securely to a corporate network.

3. Security Technical and Operational Measures (TOM)

3.1. Global SITA security measures

SITA has implemented security measures that apply to the organization as a whole, and hence to all of SITA's products and services.

Please refer to the following link to have access to these global security measures:

<https://www.sita.aero/globalassets/docs/other/Global-Security-TOMs.pdf>

This link may be updated periodically by SITA but it shall not be amended in such a way that causes material decrease in security measures applied by SITA under this TOM.

3.2. Bag Journey specific security measures

The below security measures are implemented for Bag Journey.

3.2.1. Network security

The below specific network security measures are implemented for the Service:

If SITA Bag Journey or SITA NetScan or Bag Trust is deployed using SITA managed AWS Cloud hosted option:

- Network segmentation: VLAN and firewall segmentation is implemented,
- Firewall: server-based as well as software-based firewalls are implemented,
 - Intrusion Prevention Systems (IPS) and Intrusion Detection Systems (IDS): IPS and IDS are implemented relying on firewalls having these capabilities,
- VPN: a remote access VPN is implemented for external support with MFA required,
- Network devices hardening: SSH is enabled with TLS 1.2 (or higher); hardening measures are implemented using hardened image based on CIS benchmark; other unnecessary services running on machines are disabled; robust password policies are enforced,
- Network authentication: network authentication relies on Active Directory.

References	
Related ISO/IEC 27002:2022 controls	08.20. Networks security; 08.21. Security of network services; 08.22. Segregation of networks
Related GDPR principles	Integrity and confidentiality (security)

3.2.2. Operational security

The below specific operational security measures are implemented for the Service:

If SITA Bag Journey or SITA NetScan or Bag Trust is deployed using SITA managed AWS Cloud hosted option:

- Vulnerability management: a vulnerability management procedure is documented and implemented:
 - The security team gathers vulnerabilities from vendors notifications and CISO vulnerability watch, and provides, each month, a report with the list of patches to be applied; all vulnerabilities are assessed and tracked using a ticketing tool for change implementation; network vulnerability scans are performed on a regular basis; penetration tests are launched for major releases (or annually).

- Patch management: a patch management procedure is documented and implemented:
 - Patches are gathered from different sources and are systematically tested before implementation in production,
- Change management: a change management procedure is documented and implemented:
 - An ITSM tool is used to track all changes; all changes go through the Change Approval Board (CAB) process,
- Capacity management: a capacity management process is documented and implemented:
 - Monitoring tools (scripts) are used to assess and alert on any capacity issues on network equipment and servers (CPU, memory utilization, resource utilization),
- System operating procedures: standard system operating procedures are documented,
- Logging and monitoring:
 - application and infrastructure logs are collected, are kept for **7 days** and then automatically deleted; logs are stored on a separate storage different from application server.
 - NTP is in place for clock synchronization.
- System hardening: all systems are built with a hardened image based on CIS hardening benchmark; new servers go under a hardening phase with automated scripts.

References	
Related ISO/IEC 27002:2022 controls	05.37. Documented operating procedures; 08.06. Capacity management; 08.08. Management of technical vulnerabilities; 08.15. Logging; 08.16. Monitoring activities; 08.32. Change management
Related GDPR principles	Integrity and confidentiality (security)

3.2.3. Information protection

The below specific information protection security measures are implemented for the Service:

If **SITA Bag Journey** or **SITA NetScan** is deployed using **SITA managed** AWS Cloud hosted option:

- Data classification: data is categorized from legal and GDPR perspectives in two distinct categories: personal / non-personal,
- Data desensitization: data used in development is simulated or provided anonymized for specific scenarios; production data is never used for testing,
- Data at rest encryption: both databases using TDE and disks are encrypted,
- Secured information exchange / data in transition encryption: HTTPS (TLS 1.2 or above) is implemented for all information exchanges,
- Information deletion: a data retention policy is implemented:
 - The data retention period is set to 14 months,
 - SITA shall delete all data without further notice to Customer within 10 days following the end of the 14 months data retention period,
 - Automated scripts erase data once the 14 months retention period is reached.

If **SITA Bag Trust** is deployed using **SITA managed** AWS Cloud hosted option:

- Data classification: data is categorized from legal and GDPR perspectives in two distinct categories: personal / non-personal; data classification is enforced,

- Data desensitization: data used in development is simulated or provided anonymized for specific scenarios; production data is never used for testing,
- Information deletion: SITA Bag Trust aims to facilitate filtration of personal data for Customers but without any personal data being stored in a database,
- Secured information exchange / data in transition encryption: all information exchanges happen through APIs; APIs are secured with a dedicated API gateway with TLS 1.2 enabled,

References	
Related ISO/IEC 27002:2022 controls	05.12. Classification of information; 05.14. Information transfer; 08.10. Information deletion; 08.24. Use of cryptography
Related GDPR principles	Data minimization; Accuracy; Storage limitation; Integrity and confidentiality (security)

3.2.4. Access control and authentication

The below specific access control and authentication security measures are implemented for the Service:

If SITA Bag Journey or SITA NetScan is deployed using SITA managed AWS Cloud hosted option:

- Authentication: password policy and complexity rules are documented and implemented:
 - The application has a configuration for number of failed login attempts after which the account would be locked; the password expiration time is set to 30 days; account expiry is set to occur upon 90 days of inactivity,
- Multi-factor authentication (MFA) is implemented for privileged access to AWS console,
- Protection of authentication information: passwords are stored encrypted; authentication information is transmitted to users through secured corporate email,
- Restricted access to source code: access to source code is restricted using the implemented RBAC model; only the DevOps team is allowed to access the application code.
- A PAM policy is implemented:
 - Privileged access reviews are performed on a quarterly basis; a jump server is implemented for privileged access management.
- Restricted access to source code: access to source code is restricted based on least privilege principle using RBAC model and based on MFA implementation,
- Segregation of duties (SoD): SoD is implemented using RBAC model: several roles and account types are used to respect the principle of least privilege.

If SITA Bag Trust is deployed using SITA managed AWS Cloud hosted option:

- Authentication: password policy and complexity rules are documented and implemented:
 - The application has a log out time set to 30 minutes; the password expiration time is set to 30 days; account expiry is set to occur after 90 days of inactivity,
- Multi-factor authentication (MFA) is implemented for privileged access to AWS console,
- Protection of authentication information: authentication information is transmitted to users through encrypted corporate email; customers are forced to modify default password,
- Restricted access to source code: access to source code is restricted based on least privilege principle using RBAC model and based on MFA implementation,

- Segregation of duties (SoD): SoD is implemented using RBAC model: several roles and account types are used to respect the principle of least privilege.
- A PAM policy is implemented:
 - Privileged access reviews are performed on a quarterly basis; a jump server is implemented for privileged access management.

References	
Related ISO/IEC 27002:2022 controls	05.15. Access control; 05.17. Authentication information; 05.18. Access rights; 08.02. Privileged access rights; 08.03. Information access restriction; 08.04. Access to source code; 08.05. Secure authentication
Related GDPR principles	Integrity and confidentiality (security)

3.2.5. Application security

The below specific application security measures are implemented for the Service:

If **SITA Bag Journey** or **SITA NetScan** is deployed using **SITA managed** AWS Cloud hosted option:

- Web application firewall (WAF): a network-based WAF is implemented, with whitelisting enabled,
- Secure coding: a secure coding policy is documented and implemented:
 - It is shared by SITA information security team and followed by developers; a secure coding checklist is used including scans,
 - SAST, DAST and/or SCA tools are used to check against vulnerabilities in the code (OWASP Top 10, CWE Top 25) including open-source libraries.
- Vulnerability scanning: application vulnerability scans are performed as part of software development lifecycle, before each code release,
- Penetration testing: penetration tests are performed on a quarterly basis by security team using pre-prod environment,
- API security: APIs are secured through the API secure gateway (TLS 1.2) and using token-based authentication.

If **SITA Bag Trust** is deployed using **SITA managed** AWS Cloud hosted option:

- Secure coding: a secure coding policy is documented and implemented:
 - It is shared by SITA information security team and followed by developers; a secure coding checklist is used including scans,
 - SAST, DAST and/or SCA tools are used to check against vulnerabilities in the code (OWASP Top 10, CWE Top 25) including open-source libraries.
- Vulnerability scanning: application vulnerability scans are performed as part of software development lifecycle, before each code release,
- Penetration testing: penetration tests are performed on a quarterly basis by security team using pre-prod environment,
- Secure CI/CD platform: Azure Pipelines is being used with secured authentication through Azure Portal with SSO enabled; an approval process is implemented and based on the defined RBAC model,

- API security: APIs are secured through the API secure gateway (TLS 1.2) and using token-based authentication.

References	
Related ISO/IEC 27002:2022 controls	08.26. Application security requirements; 08.27. Secure system architecture and engineering principles
Related GDPR principles	Purpose limitation; Data minimization; Storage limitation

3.2.6. Service resilience

The below specific service resilience security measures are implemented for the Service:

If SITA Bag Journey or SITA NetScan is deployed using SITA managed AWS Cloud hosted option:

- Data backup: a backup policy and a backup process are implemented:
 - ▶ Full database backups are performed daily,
 - ▶ Data backup retention period is set to 7 days,
 - ▶ SITA shall delete all backup data without further notice to Customer at the end of the 7 days data retention period,
 - ▶ Data purging is automatically performed through a dedicated script as soon as the backup data retention period is reached. A job is launched on a daily basis and purges all the backups that expired,
 - ▶ A monitoring process is in place to ensure the purging process is properly triggered,
- Data backup protection: backups are segregated from the production environment,
- Systems redundancy: infrastructure (both application and database servers) redundancy is in place through clustered services (Active-Passive) to ensure high availability,
- Disaster recovery plan: a backup and restore plan is implemented:
 - ▶ Staging environment is used for disaster recovery,
- Crisis management: crisis management and major incidents processes are documented and implemented, with dedicated communication paths and escalation process.

If SITA Bag Trust is deployed using SITA managed AWS Cloud hosted option:

- Data backup: a backup policy and a backup process are implemented:
 - ▶ Full database backups are performed daily,
 - ▶ Data backup retention period is set to 7 days,
 - ▶ SITA shall delete all backup data without further notice to Customer at the end of the 7 days data retention period,
 - ▶ Data purging is automatically performed through a dedicated script as soon as the backup data retention period is reached. A job is launched on a daily basis and purges all the backups that expired,
 - ▶ A monitoring process is in place to ensure the purging process is properly triggered,
- Data backup protection: backups are segregated from the production environment,
- Crisis management: crisis management and major incidents processes are documented and implemented, with dedicated communication paths and escalation process.

References	
Related ISO/IEC 27002:2022 controls	08.14. Redundancy of information processing facilities
Related GDPR principles	Storage limitation; Integrity and confidentiality (security)

3.2.7. Cloud security

If **SITA Bag Journey** or **SITA NetScan** or **Bag Trust** is deployed using **SITA managed** AWS Cloud hosted option:

- Datacenter access restriction: AWS security measures are applicable.
- Cloud infrastructure redundancy: AWS Cloud infrastructure is a highly redundant infrastructure including compute, network redundancy, storage and management plane redundancies, and ensuring resiliency and high availability.

Cloud backup/recovery/testing: AWS is used to perform data backups of critical systems and to monitor the backups for completion status; backups are stored; on a daily basis, a report evidencing the success or failure of each scheduled backup is generated.

References	
Related ISO/IEC 27002:2022 controls	05.23 Information security for use of cloud services; 08.14 Redundancy of information processing activities
Related GDPR principles	Integrity and confidentiality (security)