

Security Technical and Organizational Measures (TOM) Appendix for SITA Passenger Intelligent Journey (PIJ) Validation Service Schedule

Version: October 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 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 personal data is 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 personal data held.

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 Delivery, 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 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.

Encryption: means a computing process that encodes plaintext/clear text (unencrypted, human-readable data) into cipher text (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

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.

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

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.

TDE: means Transparent Data Encryption which is a technology used to encrypt database files at the file level, ensuring that data at rest is protected.

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 Organizational 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

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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 a material decrease in security measures applied by SITA under this TOM.

3.2. SITA Passenger Intelligent Journey specific security measures

The below security measures are implemented at PIJ Validation:

3.2.1. Network security

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

PIJ 5.x Deployment: On-Premises (SITA Managed) Hosted Option:

- Network segmentation: VLAN segmentation, Firewall segmentation
- Firewall: server-based firewalls are implemented and managed by the SITA network team

PIJ 7.x Deployment: Hybrid (On-Premises and Azure Cloud) — Managed by SITA Azure cloud hosted option:

- Network segmentation: VLAN segmentation, Firewall segmentation
- Firewall: server-based firewalls are implemented and managed by the SITA network team
- Network segmentation: micro-segmentation is implemented through Azure network security groups,
- Network devices hardening: TLS 1.2 and above is implemented, and robust password policies are enforced; Azure hardening standards are in place,
- Network authentication: network authentication relies on protocols such as Kerberos and LDAP/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:

PIJ 5.x Deployment: On-Premises (SITA Managed) Hosted Option:

- Antivirus: an antivirus is deployed on workstations
- Vulnerability management: a vulnerability management procedure is documented and implemented:
 - Environmental vulnerability scans are performed,
- Patch management: a patch management procedure is documented and implemented:
 - A dedicated team is in place and relies on industrialized patching tools; security patches are tested and certified in a test environment before being deployed in production.
- Capacity management: a capacity management process is documented and implemented:
 - An ITSM tool is used to track all changes; all non-standard changes go through the CAB process.
- System operating procedures: standard operating procedures are documented.

- System hardening: a system hardening policy and checklist is documented and implemented:
 - Workstation/PC is hardened based on CIS benchmark.
- Capacity management: a capacity management process is documented and implemented:
 - Monitoring and supervision tools are used to assess and alert on any capacity issues on network devices and servers (CPU, memory utilization, resource utilization),

PIJ 7.x Deployment: Hybrid (On-Premises and Azure Cloud) — Managed by SITA Azure cloud hosted option:

- Vulnerability management: a vulnerability management process is documented and implemented:
 - Penetration tests are performed at least once year.
- Patch management: a patch management process is documented and implemented:
 - Patch management activities are managed using Azure Patch Manager (Update Management) tool.
- Change management: a change management procedure is documented and implemented:
 - An ITSM tool is used to track all changes; all non-standard changes go through the CAB process.
- Capacity management: a capacity management process is documented and implemented:
 - Monitoring and supervision tools are used to assess and alert on any capacity issues on network devices and servers (CPU, memory utilization, resource utilization)
- System operating procedures: standard operating procedures are documented.
- Logging and monitoring:
 - Logging and monitoring are managed by Azure Application Insights; logs are centralized within the Azure portal.
 - If any personal data stored in these logs, it is anonymized.
 - Log audit trail is ensured as they are kept for 3 months, and logs are then automatically deleted once retention time has passed.
- Azure NTP is used.
- System hardening: system hardening activities are performed based on CIS benchmark and Azure defender.

Related ISO/IEC 27002:2022 controls	05.37. Documented operating procedures; 08.06. Capacity management; 08.07. Protection against malware; 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:

PIJ 5.x Deployment: On-Premises (SITA Managed) Hosted Option:

- Data at rest encryption (Database TDE encryption)
- Data in transit encryption / secure information exchange: personal data communication is encrypted using HTTPS (TLS 1.2 or above)
- Data Retention Policy: Documented, Implemented, and Configurable via Web Interface:
 - No personal data (PII) is stored permanently in the product.
 - Troubleshooting Log Cleanup: Batch File Execution via Windows Task Scheduler.
 - SITA shall delete all data without further notice to the customer an automatic dedicated daily SQL Job for Data Cleanup Following Retention Policy.

PIJ 7.x Deployment: Hybrid (On-Premises and Azure Cloud) — Managed by SITA Azure cloud hosted option:

- Data Retention Policy: Documented, Implemented, and Configurable via Web Interface:
 - No personal identifiable information (PII) is stored permanently in the product.
 - An automatic dedicated daily SQL Job for Data Cleanup Following Retention Policy

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:

PIJ 5.x Deployment: On-Premises (SITA Managed) Hosted Option:

- Authentication:
 - A strong authentication policy is implemented, token expiry time is configured.
 - Protection of authentication information: all passwords are stored encrypted.
- Multi-factor authentication: MFA is implemented to ensure restricted access to source code and in addition to the VPN, for remote administration and support by the SITA administrators.
- 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.

PIJ 7.x Deployment: Hybrid (On-Premises and Azure Cloud) — Managed by SITA Azure cloud hosted option:

- Authentication: password policy and complexity rules are documented and implemented:
 - A session timeout is in place; the application has a configuration for number of failed login attempts after which the account would be locked and only the administrator can reset,
- Restricted access to source code: access to source code is restricted based on the RBAC model implemented.
- Privileged Access Management: SITA applies a "Least Privilege" and "Need to Know" approach.
- Multi-factor authentication: MFA is implemented to ensure restricted access to source code and in addition to the VPN, for remote administration and support by SITA administrators,
- Segregation of duties (SoD): SoD is implemented using RBAC model: several roles and account types are used to respect the principle of least privilege.

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:

- Secure coding: a secure coding policy is documented and implemented:
 - It is shared by the SITA information security team and followed by developers; a secure coding checklist is used including scans.
 - A DevOps guide is provided to the developers and describes a list of best practices regarding secure coding, data protection and security development measures.
 - SASTand/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.
- Secure CI/CD platform: Azure DevOps Pipelines is used, with restricted permissions on who can run the pipeline and promote the code; deployment requires an approval process.

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:

- Data availability: RTO & RPO are documented and agreed upon within agreements with Customers.
- Data backup: a data backup policy is documented and implemented:
 - Database are backed up on regular interval.
 - SITA shall delete all data backup without further notice to Customer following the end of the configured backup data retention period.
- Data backup protection: backups are segregated from the production environment; backups are encrypted.
- Systems redundancy: application redundancy is in place through clustered services to ensure high availability as per agreed SLA.

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

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

- Datacenter access restrictions: standard Microsoft Azure security measures are implemented.
- Azure Advisor security baseline is used, and recommendations followed and implemented.

- Cloud redundancy capabilities: hardware redundancy and geographic redundancy as per agreed SLA.

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)