Security Technical and Organizational Measures (TOM) Appendix for Smart Path Mobile 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 inconsistence 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.

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 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.

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Version: June 2025 Page 1 of 7 **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.

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

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 organizations 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.

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.

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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. Smart Path Mobile specific security measures

The below security measures are implemented at Smart Path Mobile level. Smart Path Mobile consists of Smart Path Mobile Cloud Service (MCS) and Smart Path Mobile Client.

3.2.1. Network security

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

If Smart Path Mobile Cloud Service (MCS) Client is deployed using SITA managed on-premises hosted option:

- Network segmentation: VLAN segmentation; co-hosted with Smart Path Hub (SPH)
- Secure Web Gateway (SITA Community Connect Internet) to restrict Internet traffic (access control lists, web filtering)

If Smart Path Mobile Cloud Service (MCS) is deployed using SITA managed Azure cloud hosted option:

- Network segmentation: micro-segmentation is implemented through Palo Alto,
- Web application firewall: a network based WAF is implemented at Azure Front Door,
- · Firewall: multiple Palo Alto firewall protects all direction of traffic,
- Network devices hardening: TLS 1.2 and above is implemented, and robust password policies are enforced; Azure hardening standards are in place.
- · Azure Defender is in place

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

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3.2.2. Operational security

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

If Smart Path Mobile Cloud Service (MCS) Client is deployed using SITA managed on-premises hosted option:

- Vulnerability management: a vulnerability management process is implemented.
- 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.
- System operating procedures: standard operating procedures are documented.

If Smart Path Mobile Cloud Service (MCS) is deployed using SITA managed Azure cloud hosted option:

- Vulnerability management: a vulnerability management process is documented and implemented
- 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 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 is managed by SITA Azure Cloud operations team: logs are centralized within the Azure portal; logs audit trail is ensured as they are kept for 3 months, and logs are then automatically deleted once retention time has passed.

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 Smart Path Mobile Cloud Service (MCS) Client is deployed using SITA managed on-premises hosted option:

No personal data (PII) is stored.

If Smart Path Mobile Cloud Service (MCS) is deployed using SITA managed Azure cloud hosted option:

- No personal data (PII) is stored permanently in the product. The retention time is set to 1 hour by default.
- Data desensitization: Logs are anonymized.

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References	
Related ISO/IE 27002:2022 controls	05.12. Classification of information; 05.14. Information transfer; 08.10. Information deletion; 08.24. Use of cryptography
Related GDP 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 Smart Path Mobile Cloud Service (MCS) Client is deployed using SITA managed on-premises hosted option:

· RabbitMQ authentication is used for Client login.

If Smart Path Mobile Cloud Service (MCS) is deployed using SITA managed Azure cloud hosted option:

- Authentication:
 - RabbitMQ authentication is used for Client login.
 - o API security: API key is used for Mobile SDK authentication.
- 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,
- 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,

References		
Related 27002:2022		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 principles	GDPR	Integrity and confidentiality (security)

3.2.5. Application security

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

If Smart Path Mobile Cloud Service (MCS) Client is deployed using SITA managed on-premises hosted option:

- Secure coding: a secure coding policy is documented and implemented: o
 - o A secure coding checklist is used.

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- 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.
- External development team (if involved) forms an integral part of the SITA development team and follows similar secure coding practices.
- Vulnerability scanning: application vulnerability scans are performed as part of software development lifecycle, before each code release.

If Smart Path Mobile Cloud Service (MCS) is deployed using SITA managed Azure cloud hosted option:

- Secure coding: a secure coding policy is documented and implemented:
 - o A secure coding checklist is used.
 - 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.
 - External development team (if involved) forms an integral part of the SITA development team and follows similar secure coding practices.
- 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 27002:2022 cd		08.26. Application security requirements; 08.27. Secure system architecture and engineering principles
Related principles	GDPR	Purpose limitation; Data minimization; Storage limitation

3.2.6. Service resilience

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

If Smart Path Mobile Cloud Service (MCS) is deployed using SITA managed Azure cloud hosted option:

- Systems redundancy: application redundancy is in place through clustered services to ensure high availability as per agreed SLA,
- Incident 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

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Related	GDPR	Storage limitation; Integrity and confidentiality (security)
principles		

3.2.7. Cloud security

If Smart Path Mobile Cloud Service (MCS) is deployed using SITA managed Azure cloud hosted option:

- Datacenter access restrictions: standard Microsoft Azure security measures are implemented.
- Data availability: RTO and RPO are documented and agreed upon within agreements with Customers.

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

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