



# SOC 3<sup>®</sup> – SOC for Services Organizations: Trust Services Criteria

Report on OneSpan's Description of its Onespan Sign System on the Suitability of the Design and Operating Effectiveness of its Controls Relevant to Security, Confidentiality Availability, and Privacy throughout the period January 1, 2021 to December 31, 2021.

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## I. INDEPENDENT SERVICE AUDITORS' REPORT



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## Independent Service Auditors' Report

To: Management of OneSpan Inc.

### Scope

We have been engaged to report on OneSpan Inc's (OneSpan's) accompanying statement titled "Statement by Management of OneSpan" (statement) that the controls within OneSpan's OneSpan Sign System (system) were effective throughout the period January 1, 2021, to December 31, 2021, to provide reasonable assurance that OneSpan's service commitments and system requirements were achieved based on the trust services criteria relevant to security, availability, confidentiality and privacy (applicable trust services criteria) set forth in TSP section 100, *2017 Trust Services Criteria for Security, Availability, Processing Integrity, Confidentiality, and Privacy (AICPA, Trust Services Criteria)*.

The description of the boundaries indicates that OneSpan's controls can provide reasonable assurance that certain service commitments and system requirements can be achieved only if complementary subservice organization controls assumed in the design of OneSpan's controls are suitably designed and operating effectively, along with the related controls at OneSpan. Our engagement did not include complementary subservice organization controls, and we have not evaluated the suitability of the design and operating effectiveness of such controls.

The description indicates that complementary user entity controls that are suitably designed and operating effectively are necessary, along with controls at OneSpan, to achieve OneSpan's service commitments and system requirements based on the applicable trust services criteria. The description presents OneSpan's controls, the applicable trust services criteria, and the complementary user entity controls assumed in the design of OneSpan's controls. Our engagement did not include such complementary user entity controls and we have not evaluated the suitability of the design or operating effectiveness of such controls.

### Service Organization's Responsibilities

OneSpan is responsible for its service commitments and system requirements and for designing, implementing, and operating effective controls within the system to provide reasonable assurance that OneSpan's service commitments and system requirements were achieved. OneSpan has also provided the accompanying statement about the effectiveness of controls within the system. When preparing its statement, OneSpan is responsible for selecting, and identifying in its statement, the applicable trust service



criteria and for having a reasonable basis for its statement by performing an assessment of the effectiveness of the controls within the system.

### **Our Independence and Quality Control**

We have complied with the relevant rules of professional conduct / code of ethics applicable to the practice of public accounting and related to assurance engagements, issued by various professional accounting bodies, which are founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

The firm applies Canadian Standard on Quality Control 1, *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance Engagements*, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

### **Service Auditor's Responsibilities**

Our responsibility, under this engagement, is to express an opinion, based on the evidence we have obtained, on whether management's statement that controls within the system were effective throughout the period to provide reasonable assurance that the service organization's service commitments and system requirements were achieved based on the applicable trust services criteria.

Our engagement was conducted in accordance with Canadian Standard on Assurance Engagements 3000, *Attestation Engagements Other than Audits or Reviews of Historical Financial Information*, set out in the CPA Canada Handbook – Assurance. This standard requires that we plan and perform our engagement to obtain reasonable assurance about whether management's statement is fairly stated, in all material respects. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

Our reasonable assurance engagement included:

- Obtaining an understanding of the system and the service organization's service commitments and system requirements
- Assessing the risks that controls were not effective to achieve OneSpan's service commitments and system requirements based on the applicable trust services criteria
- Performing procedures to obtain evidence about whether controls within the system were effective to achieve OneSpan's service commitments and system requirements based on the applicable trust services criteria
- Performing such other procedures as we considered necessary in the circumstances.

### **Inherent Limitations**

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls.

Because of their nature, controls may not always operate effectively to provide reasonable assurance that the service organization's service commitments and system requirements were achieved based on the applicable trust services criteria. Also, the projection to the future of any conclusions about the effectiveness of controls is subject to





the risk that controls may become ineffective because of changes in conditions or that the degree of compliance with the policies or procedures may deteriorate.

**Opinion**

In our opinion, management's statement that the controls within OneSpan's Environment, Health, Safety and Quality Management system were effective throughout the period January 1, 2021, to December 31, 2021, to provide reasonable assurance that OneSpan's service commitments and system requirements were achieved based on the applicable trust services criteria is fairly stated, in all material respects.

*KPMG LLP* \*

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\*CPA auditor, CA, public accountancy permit No. A119819

Montreal, Quebec  
April 29, 2022

## 2. STATEMENT BY ONESPAN MANAGEMENT

We are responsible for designing, implementing, operating, and maintaining effective controls within OneSpan Inc's (OneSpan's) OneSpan Sign System (system) throughout the period January 1, 2021, to December 31, 2021, to provide reasonable assurance that OneSpan's service commitments and system requirements relevant to security, availability, confidentiality and privacy were achieved. Our description of the boundaries of the system is presented in attachment A and identifies the aspects of the system covered by our statement.

We have performed an evaluation of the effectiveness of the controls within the system throughout the period January 1, 2021, to December 31, 2021, to provide reasonable assurance that OneSpan's service commitments and system requirements were achieved based on the trust services criteria relevant to security, availability, confidentiality and privacy (applicable trust services criteria) set forth in TSP section 100, *2017 Trust Services Criteria for Security, Availability, Processing Integrity, Confidentiality, and Privacy* (AICPA, *Trust Services Criteria*). OneSpan's objectives for the system in applying the applicable trust services criteria are embodied in its service commitments and system requirements relevant to the applicable trust services criteria. The principal service commitments and system requirements related to the applicable trust services criteria are presented in attachment B.

Our description of the boundaries of the system indicates that complementary subservice organization controls that are suitably designed and operating effectively are necessary, along with controls at OneSpan, to achieve OneSpan's service commitments and system requirements based on the applicable trust services criteria. Our description of the boundaries does not extend to controls of the subservice organizations.

There are inherent limitations in any system of internal control, including the possibility of human error and the circumvention of controls. Because of these inherent limitations, a service organization may achieve reasonable, but not absolute, assurance that its service commitments and system requirements are achieved.

We confirm that the controls within the system were effective throughout the period January 1, 2021, to December 31, 2021, to provide reasonable assurance that OneSpan's service commitments and system requirements were achieved based on the applicable trust services criteria.

OneSpan

E-SIGNED by Christian Vezina

on 2022-04-29 17:24:11 GMT

Christian Vezina, Chief Information Security Officer

April 29, 2022

# ATTACHMENT A: ONESPAN'S DESCRIPTION OF THE BOUNDARIES OF ITS ONESPAN SIGN SYSTEM

## Company Overview

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OneSpan helps protect the world from digital fraud by establishing trust in people's identities, the devices they use, and the transactions they execute. OneSpan's security solutions reduce digital transaction fraud and enable regulatory compliance for more than half of the top 100 global banks and thousands of financial institutions worldwide.

Our next-generation solutions are delivered on a cloud-based platform, from risk-based adaptive authentication to digital identity verification and e-signature.

OneSpan provides e-signature solutions to organizations of all sizes, including financial services institutions, insurance companies, healthcare companies and government agencies. Built on a single SaaS platform that can be delivered in the cloud or on-premises, OneSpan Sign provides highly tailored e-signing experiences and regulatory compliance.

## Service Description

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OneSpan Sign is an e-signature solution that enables users to prepare, send and sign documents over the web electronically. This process typically requires five steps:

- Upload documents for the signature process;
- Add recipients who will either be signing or reviewing the documents;
- Define who will be signing and where the signatures will need to be applied;
- Select the authentication method (username/password, secret question/answer, one-time passcode (OTP), third-party authentication services); and
- Initiate signature process.

An email will be sent to each signer, inviting them to e-sign the document(s). If Users are face-to-face with the signer, they can use their computer or mobile device to capture the signer's signature. Each signer is guided step-by-step through the signing process. Once the documents are signed, they can be downloaded. The e-signed documents can then be downloaded for retention in the User's record system and deleted from OneSpan Sign.

The e-signed documents are standard PDF files that can be viewed in Adobe Reader and other PDF readers.

OneSpan Sign provides a flexible and scalable solution to support signing needs. OneSpan Sign was designed to be easy to use for all stakeholders: signers, reviewers, senders and developers. There are



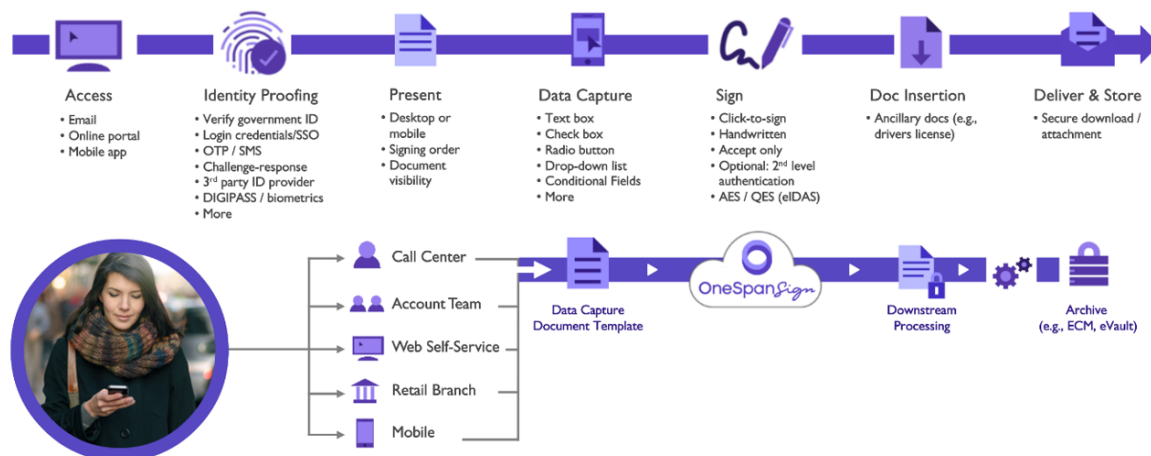
several ways in which an organization can consume e-signatures. This largely depends on their use case – and whether they need e-signatures embedded inside of an application.

Organizations can get up and running with OneSpan Sign in 3 ways:

- Standalone web-based service (Professional Plan): This option largely satisfies the most common signing workflows and e-contracting use cases– for example, getting contracts and agreements electronically signed. Users simply upload a document, select their signers and begin e-signing in minutes;
- Integration (Enterprise Plan): Our solution gives users the ability to add e-signing capabilities into their own applications – whether that’s through their website, mobile app, or even their home- grown or legacy system. We have an open, industry-standard REST API and fully supported SDKs for Java, .NET, APEX, iOS and Android – to help users embed e-signing capabilities in ANY one of their applications; and
- Pre-built connectors for 3rd party applications: Users can send and sign documents without ever leaving 3rd party applications like Salesforce, SharePoint, Box, or Dynamics 365. We’ve done all the integration work with these connectors – no coding or IT resources are needed to get started with e-signatures inside these business applications that users know and use every day.

## OneSpan Sign E-Signature Workflow

The solution was built for businesses and projects of all sizes – making e-signatures available to everyone, regardless of deployment preference, budget or IT resources. Users simply create and send out digital documents and e-forms to clients for signing. OneSpan Sign manages the online signing process so that electronic contracts and records are enforceable, compliant and secure. In addition, customers can monitor all in-progress transactions, identify bottlenecks and empower users to take action to keep digital processes moving forward. See Figure 1 below for a typical e-signature transaction workflow.



**Figure 1: E-signature transaction workflow with OneSpan Sign**

With OneSpan Sign, customers can authenticate the user using various methods, including email, ID Verification, SMS, Question/Answer, and third-party authentication services. Digital encryption securely seals each signature block after signing, and the embedded audit trail reports on who signed, in what order, at what time and in what locations. This audit trail travels with the e-signed document and can be verified with one simple click to ensure the document's integrity.

## Components of the System Providing the Service

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This section describes infrastructure, software, people, procedures, data, and privacy practices used to deliver the Service.

### Infrastructure

By leveraging cloud partners, OneSpan Sign can scale the required infrastructure resources whenever the need arises. OneSpan's cloud partners have extensive global data center networks. This provides OneSpan Sign with a robust environment that is highly available with a quick disaster recovery capability to another geographic region. Utilizing cloud technology ensures OneSpan Sign can quickly be scaled up and expand operations to meet its customers' growing needs.

OneSpan regularly reviews its cloud partners' compliance to validate that controls in place are sufficient to meet OneSpan's requirements.

As per good practices, infrastructure is split into multiple network segments and firewall technology is used to control network traffic and allow required traffic. System instances are hardened to help ensure that required services are running. Administrative access to the system requires multifactor authentication. User accesses are logged and controlled, and mechanisms are in place to help prevent system abuse.

OneSpan Sign is monitored on a 24/7 basis, including through the use of intrusion detection tools. Events are centrally correlated, providing system administrators with continuous visibility over, and automated notifications in case of potential incidents, including system health or security.

Vulnerability scanning and intrusion tests are performed periodically through the use of tools to detect areas that require patching or other remediation to help protect against outside threats. Patches are applied regularly to help ensure the system stays up to date and secure.

### Software

OneSpan Sign is designed based on a 3-tier architecture approach, comprised of different types of instances. Unless otherwise indicated, instances are built from standardized Images and are hardened as per OneSpan Sign's hardening guidelines.

- **Presentation layer:** This layer is running public-facing instances in the form of load balancers and outbound proxies to allow secure inbound traffic to the Service and outbound traffic to integrated customers and interfaces to external third-party services.
- **Application layer:** This layer hosts the OneSpan Sign front-end web services handling the package creation and manipulation in the form of a web User Interface (UI). This layer also runs back-end instances handling all the business logic associated with the Service, including the API requests.

- **Database layer:** Database instances supporting the Service are running in this layer. Databases reside on encrypted volumes for data protection. Backups and replication of the data are performed in multiple zones and datacenters for high availability and disaster recovery purposes.

## People

OneSpan employees are bound by a non-disclosure agreement, as well as a Code of Conduct & Ethics, which they are asked to acknowledge on a yearly basis. A criminal background check is required for employees with access to production systems.

Senior Management's philosophy on the importance of protecting customer information is reflected in OneSpan control environment. OneSpan has developed an extensive set of security policies, standards and processes to help employees understand their individual roles and responsibilities with regards to information security and protection of customer information. Policies are communicated to employees at hire time and again annually, or as required. Multiple roles are defined, along with their responsibilities, such as Chief Information Security Officer, Data Protection Officer, Cloud Operations Director, Change Manager, Human Resources Manager, Product Management team, System Owner, Product Owner, Release Manager, R&D team, Senior Developers, Software Quality Assurance team, etc.

## Procedures

OneSpan has developed procedures and processes to restrict logical access to the system and protect customer data. These procedures and processes are communicated to employees, and reviewed and updated as required to maintain system security. They cover multiple aspects, such as risk management, access controls, secure development, system hardening, change management, patch management, vulnerability management, business continuity, disaster recovery, and incident response.

## Data

The system captures and stores all the data necessary to carry the electronic signing of documents. All of this data is coming through to the system via its REST API. Both integrated customers and the system's own web User Interface interact with this API over secured HTTPS connections.

## Privacy Practices

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OneSpan accesses, processes and stores customer data in accordance with the relevant agreement between customers and OneSpan. Customer data is retained according to the relevant agreement with its customers. OneSpan has no direct control or ownership of the personal information it processes under the direction of its customers.

## Identified System Incidents

OneSpan has not experienced significant security incidents related to the OneSpan Sign Service that either (a) were the result of controls that were either not designed or operating effectively to achieve commitments or system requirements, or (b) otherwise resulted in a failure in the achievement of commitments or system requirements.

## Complementary Subservice Organization Controls

OneSpan Sign was designed with the assumption that certain control objectives can be achieved only if complementary subservice organization controls assumed in the design of OneSpan’s controls are suitably designed and operating effectively, along with the related controls at OneSpan.

OneSpan uses the infrastructure services of AWS and IBM SoftLayer to host OneSpan Sign and customer data.

For the control objectives listed below, OneSpan uses AWS, IBM SoftLayer and Cloudflare to support the achievement of control objectives identified in this report. The subservice organization controls presented below should not be regarded as a comprehensive list of all of the controls that should be employed by the subservice organizations.

Subservice Organization	Complementary Subservice Organization Control	Control Objective Reference	AICPA SOC2 criteria
AWS (Amazon Web Services)	The external connectivity points to AWS’ computing environment should be restricted to the level of network access that is required.	AWSCA-3.1 AWSCA-3.2 AWSCA-3.3	CC6.1
	The AWS KMS should provide secure key management services. The keys should be issued using strong cryptographic algorithms and be protected in transit and at rest.	AWSCA-4.5 to AWSCA-4.15	CC6.1
	The physical access to the AWS data centers where the System is hosted should be limited to properly authorized individuals only, reviewed on a quarterly basis by appropriate personnel, and revoked within 24h of their deactivation.	AWSCA-5.1 AWSCA-5.2 AWSCA-5.3	CC6.4
	AWS should protect the physical entry points of the data centers where the System is hosted with electronic access control devices, closed-circuit television cameras (CCTV) and electronic intrusion detection systems	AWSCA-5.4 AWSCA-5.5 AWSCA-5.6	CC6.4
	AWS should securely decommission and physically destroy media such as hard drives at the end of their functional life.	AWSCA-5.13	CC6.5

Subservice Organization	Complementary Subservice Organization Control	Control Objective Reference	AICPA SOC2 criteria
	AWS-owned data centers and third-party colocation service providers used by AWS should have environmental controls in place, including fire detection and suppression systems, HVAC systems, uninterruptible power supplies, and generators that are monitored and maintained to protect computer equipment used for the System.	AWSCA-5.7 AWSCA-5.8 AWSCA-5.9 AWSCA-5.10 AWSCA-5.11 AWSCA-5.12	AI.2
IBM SoftLayer	The external connectivity points to IBM SoftLayer’s computing environment should be restricted to the level of network access that is required.	D2	CC6.1
	The physical access to the IBM SoftLayer data centers where the System is hosted should be limited to properly authorized individuals only, reviewed on a quarterly basis by appropriate personnel, and revoked within five days of their deactivation.	E1 E2 E3	CC6.4
	IBM SoftLayer should protect the physical entry points of the data centers where the System is hosted with surveillance cameras.	E4	CC6.4
	IBM should securely decommission and physically destroy media such as hard drives at the end of their functional life.	E14 E15	CC6.5
	IBM SoftLayer data centers should have environmental controls in place, including fire detection and suppression systems, HVAC systems, uninterruptible power supplies, and generators, that are monitored and maintained to protect computer equipment used for the System.	H4 H5 H6	AI.2
Cloudflare	The external connectivity points to Cloudflare’s computing environment should be restricted to the level of network access that is required.	VM-154 NO-065 IAM-047	CC6.1
	Sensitive data such as TLS keys and certificates should be protected in transit and at rest using strong cryptographic algorithms.	DM-025 DM-029 DM-035 MDM-064	CC6.1
	Cloudflare’s systems should be redundant and an approved and tested Business Continuity/Disaster Recovery plan should be in place.	BC-007 BC-008 BC-009 BM-010 BM-011	AI.2



## Changes since the Date of the Last Report

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No changes occurred during the period of January 1, 2021, to December 31, 2021.

## Complementary User-Entity Controls

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OneSpan Sign system was designed with the assumption that certain policies, procedures and controls would be in existence or implemented by user entities. These controls should be in operation at the user entities to complement OneSpan's controls.

## ATTACHMENT B: THE PRINCIPAL SERVICE COMMITMENTS AND SYSTEM REQUIREMENTS

OneSpan designs its processes and procedures related to OneSpan Sign to meet its objectives. Those objectives are based on the service commitments that OneSpan makes to its user entities, applicable laws and regulations that govern the provision of OneSpan Sign service, and the financial, operational, and compliance requirements that OneSpan has established for the Service.

Service commitments to user entities are documented and communicated in Service Level Agreements (SLAs) and other customer agreements, such as the OneSpan Sign Terms and Conditions, which are published online (onespan.com). Service commitments include the following:

### Security:

OneSpan has made commitments related to designing and implementing controls to help support the protection of the System and customer data. These commitments are addressed through controls such as data encryption, authentication mechanisms, network security and other relevant security controls.

### Availability:

OneSpan has made commitments related to percentage uptime and connectivity for OneSpan Sign, as well as commitments related to service credits for instances of downtime.

### Confidentiality:

OneSpan has made commitments related to designing and implementing controls to help support the confidentiality of customers' data through data classification policy, data encryption and other relevant security controls.

### Privacy:

OneSpan has made commitments related to designing and implementing controls to help support the protection of personal information and complying with applicable privacy laws and regulations.

OneSpan has established operational requirements that support the achievement of service commitments, compliance with applicable laws and regulations, and other system requirements. Such requirements are communicated in OneSpan's policies and procedures, system design documentation, and contractual agreements with customers. Information security policies define an organization-wide approach to how systems and data are protected. These include policies around how the Service is designed and developed, how the System is operated, how the internal business systems and networks are managed and how employees are hired and trained. In addition to these policies, standard operating procedures have been

documented on how to carry out specific manual and automated processes required in the operation and development of OneSpan Sign.