

# Security Architecture Narrative

Privo IT

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Table 1: Control satisfaction

Standard	Controls Satisfied
TSC	CC6.6, CC6.7, CC7.1, CC7.2

Table 2: Document history

Date	Comment
November 19, 2019	Initial document

# 1 Security Architecture Narrative

Here we narrate why our org satisfies the control keys listed in the YML block

## 2 Privo IT Product Architecture

Describe product architecture here, emphasizing security implications

## 3 Privo IT Infrastructure

### 3.1 Product Infrastructure

Describe product infrastructure, emphasizing security measures

#### 3.1.1 Authorized Personnel

- **AWS root account** access is granted only to the MP and Director of IT
- **AWS IAM** access is granted to a limited group of **Operators**
- **Privo IT SSH** access is granted to a limited group of **Operators**
- **Privo IT DB** access is granted to a limited group of **Data Operators**

### 3.2 IT Infrastructure

Privo IT uses the following cloud services for its internal infrastructure:

- List cloud services

Access to these cloud services is limited according to the role of the Privo IT employee and is reviewed quarterly as well as via regular onboarding/offboarding tasks for new and departing employees.

## 4 Privo IT Workstations

Privo IT workstations are hardened against logical and physical attack by the following measures:

- operating system must be within one generation of current
- full-disk encryption
- onboard antivirus/antimalware software
- OS and AV automatically updated

Workstation compliance with these measures is evaluated on a quarterly basis.

#### **4.1 Remote Access**

Many Privo IT employees work remotely on a regular basis and connect to production and internal IT systems via the same methods as those employees connecting from the Privo IT physical office, i.e., direct encrypted access to cloud services. It is the employee's responsibility to ensure that only authorized personnel use Privo IT resources and access Privo IT systems.

### **5 Access Review**

Access to Privo IT infrastructure, both internal and product, is reviewed quarterly and inactive users are removed. Any anomalies are reported to the security team for further investigation. When employees start or depart, an onboarding/offboarding procedure is followed to provision or deprovision appropriate account access.

### **6 Penetration Testing**

Privo IT commissions an external penetration test on an annual basis. All findings are immediately reviewed and addressed to the satisfaction of the CTO/CEO.

### **7 Privo IT Physical Security**

Privo IT has one physical location, in San Francisco, CA. Key issuance is tracked by the Office Physical Security Policy Ledger. Office keys are additionally held by the lessor, property management, and custodial staff. These keys are not tracked by the Office Physical Security Policy Ledger. Privo IT managers regularly review physical access privileges.

Privo IT infrastructure is located within AWS. Privo IT does not have physical access to AWS infrastructure.

### **8 Risk Assessment**

Privo IT updates its Cyber Risk Assessment on an annual basis in order to keep pace with the evolving threat landscape. The following is an inventory of

adversarial and non-adversarial threats assessed to be of importance to Privo IT.

## 8.1 Adversarial Threats

The following represents the inventory of adversarial threats:

Threat	Source	Vector	Target	Likelihood	Severity

## 8.2 Non-Adversarial Threats

The following represents the inventory of non-adversarial threats:

Threat	Vector	Target	Likelihood	Severity

# 9 References

## 9.1 Narratives

Products and Services Narrative System Architecture Narrative

## 9.2 Policies

Encryption Policy Log Management Policy Office Security Policy Remote Access Policy Security Incident Response Policy Workstation Policy

## 9.3 Procedures

Apply OS Patches Review & Clear Low-Priority Alerts Review Access Review Devices & Workstations