# **Connected-to Service Providers**



Merchants and service providers will often engage with a number of different service providers for a variety of reasons. As part of providing a service, some service providers are granted access - either physical, logical, or both - to their customers' facilities and networks. This document provides guidance on the security considerations related to these connected-to service providers.

The term "connected-to service provider" refers to service providers with remote network access to a system that is on the same network as, or has access to, a customer's cardholder data environment (CDE). A connected-to service provider could also engage other service providers (often referred to as nested service providers) to supplement services provided to the customer.

The term "customer" refers to any entity - for example, a merchant, service provider, financial institution, or other entity - that provides a third party service provider access to the customer's network.

A common reason for granting a service provider remote access to a CDE is to support payment systems, such as a point-of-sale (POS) system or payment application. However, connected-to service providers also include those that have access to a customer network for reasons unrelated to payments processing or cardholder data. Examples of these types of service providers include those that support or manage systems used for other business functions – for example, loyalty systems or inventory management – as well as providers that manage logical or physical aspects of the environment, such as firewalls and network devices, physical access controls, and environmental controls. Although not all service providers store, process, or transmit cardholder data, they should not be overlooked as they could still have remote connections to the customer's CDE. If not properly managed, these connections could introduce risk to the customer's CDE.

## Considerations for customers of the service provider

A service provider's customers could include merchants as well as other service providers. The customer should always exercise due diligence before engaging a service provider, regardless of the type of service to be provided. The due diligence process should include confirmation that the service provider can support the customer's security policies and procedures, including their PCI DSS compliance requirements. Customers are encouraged to use service providers that can demonstrate PCI DSS compliance that covers all aspects of the services to be provided. The customer should also have a detailed understanding of the access required by each connected-to service provider, and how that access could impact the security of their CDE. The customer should be aware of all service providers, including nested service providers, that have the ability to connect to or access their network remotely. The customer should verify that any access to their network is necessary before granting the access.

At a minimum, the customer should ensure the following PCI DSS requirements are implemented within the customer environment for each connected-to service provider:

 Policies and procedures for managing the service provider relationship, including preengagement due diligence procedures, written agreements, and confirmation of PCI DSS responsibilities (Requirement 12.8).





In 2016, insecure remote access was the largest single origin of compromise.

Source: 2017 SecurityMetrics Guide To PCI DSS Compliance



- Strong access controls and account management, including limiting access to that which is necessary and preventing access to other resources and functions, for all accounts managed by the customer and used by the service provider in the customer's environment (Requirements 2.3, 7, and 8).
- Multi-factor authentication for all remote access to a customer's CDE (Requirement 8.3)
- Methods to control and monitor remote access (Requirements 8.1.5, 12.3.9)

# Considerations for service providers that connect to customer environments

## Minimum considerations for all connected-to service providers

All service providers with the ability to connect to a customer's CDE, including providers that are not involved in payment processing and do not have access to cardholder data, should, at a minimum, ensure the following PCI DSS requirements are implemented for all customer connections:

- Written acknowledgment of service provider responsibilities related to the security of the customer's cardholder data or CDE, as applicable for the service being provided (Requirement 12.9).
- Ensuring that all service provider systems for example, workstations and management servers

   that are used to access the customer environment are securely configured and protected
   from known vulnerabilities and malware (Requirements 2, 5, and 6).
- Strong access controls and account management for any accounts managed by the service provider to access the customer's environment (Requirements 2.3, 7, and 8).
- Use of multi-factor authentication for all remote access to a customer CDE (Requirement 8.3).
- Logging of access and activities performed on service provider systems as part of the service delivery (Requirement 10).

#### Additional considerations to be determined for each service

In addition to the requirements mentioned above, service providers will also need to identify and implement the PCI DSS requirements applicable to the type of service being provided. The additional requirements that apply to a service provider may vary, depending on the agreement between the two parties and the particular service – for example, a service provider that manages firewalls for their customers may be responsible for demonstrating that PCI DSS requirements for firewall configurations (Requirement 1) are in place for their customers.

All services should be individually evaluated to determine the applicable PCI DSS requirements. PCI SSC encourages service providers and their customers to work together to identify which requirements apply to that service and how responsibilities for maintaining security controls are assigned between the two parties. PCI SSC also recommends that the agreement between the two parties include how compliance information will be shared and what type of evidence will be provided.

# **PCI DSS validation for service providers**

All service providers with access to cardholder data, or that connect to a customer's CDE, or have the ability to impact the security of the CDE, should comply with PCI DSS. Whether a service provider is required to formally validate PCI DSS compliance is determined by the individual payment brands and acquiring banks. A service provider should be able to demonstrate to their customers that they have met the applicable requirements, even if the provider is not required by a payment brand to formally validate their PCI DSS compliance.

The "Use of Third-Party Service Providers / Outsourcing" section in PCI DSS contains guidance on how service providers can provide evidence to their customers that the provider has met the PCI DSS requirements applicable to the service.

### **Additional Resources:**

The following resources can be found on the PCI SSC Website:

- $\bullet \ \ \mathsf{FAQs} \ \mathsf{related} \ \mathsf{to} \ \mathsf{service} \ \mathsf{provider} \ \mathsf{relationships:} \ \underline{\mathsf{https://www.pcisecuritystandards.org/faqs} \\$
- Information Supplements, including Third-Party Security Assurance and Guidance for PCI DSS Scoping and Segmentation: <a href="https://www.pcisecuritystandards.org/document\_library">https://www.pcisecuritystandards.org/document\_library</a>, using the filter "Guidance Documents".



We recommend all businesses, small and large, ask the right questions to any third-party management vendors about their security practices. Strengthening authentication and limiting remote access into POS environments is essential.

Source: Verizon 2017 Data Breach Investigations Report



62% of intrusions affecting POS environments involved malicious remote access.

Source: 2017 Trustwave Global Security Report



