# PCI DSS COMPLIANCE Solutions

PCI SCOPE ASSESSMENT | PREPAREDNESS ASSESSMENT | REMEDIATION | ONSITE | MAINTENANCE

# **Streamline Your Compliance**

The Payment Card Industry Data Security Standard (PCI DSS) specifies technical and operational requirements for all organizations that store, process or transmit credit card data. From the world's largest corporations to the smallest brick-and-mortar store, if you handle credit card data, then PCI DSS applies to you.

HALOCK Security Labs assists organizations in meeting PCI DSS requirements by helping them determine how the standard applies to them; providing strategy and counseling to achieve compliance; validating compliance; and preparing and submitting required validation paperwork. With help from HALOCK, you can quickly answer critical PCI questions, such as:

What is our PCI compliance scope?

What's the best PCI compliance remediation strategy for our organization?

How do we become PCI compliant?

Is our organization PCI compliant?

How do we show PCI compliance?

How do we stay PCI compliant?





# PCI DSS EDUCATION

HALOCK's PCI Overview presentations provides stakeholders with valuable education about the PCI Data Security Standard, validation requirements, and potential consequences for non-compliance so our clients understand what is involved in achieving PCI compliance and how best to approach the process.

# PCI DSS SCOPE ASSESSMENT

Serving in an advisory capacity, one or more of HALOCK's QSAs work with a client's staff to identify and document all interactions with cardholder data and the flow of credit card data through the network and systems in the assessed environment. This information is used to determine preliminary scope of a client's PCI DSS cardholder data environment (including all connected-to and management components) and applicable requirements.

Every organization has unique drivers, goals, requirements and cultures, all of which need to be considered when determining how to take on compliance. There are also a lot of different approaches to addressing PCI compliance. Therefore, after completing the **Scope assessment**, **HALOCK conducts a Strategic Remediation Planning session** to help the organization think through the impact of different remediation strategies and determine what approach will be best fit.

# PCI DSS PREPAREDNESS ASSESSMENT

A PCI DSS Preparedness Assessment is designed to uncover elements of the existing environment and security controls that are not in line with the PCI Data Security Standard by evaluating whether each of the 250+ specific requirements within the PCI DSS are being addressed appropriately.

Using the PCI audit framework as a guide, this assessment consists of data gathering and interviewstyle reviews of the existing environment, a hands-on analysis of systems on a sampling basis can also be included. By gathering information about the present configuration of systems and security controls, HALOCK can determine where issues exist with the PCI Data Security Standard and will **provide appropriate recommendations** for correcting those issues.

# Impact of Non-Compliance







# PCI DSS REMEDIATION PROGRAM MANAGEMENT

You've assessed your PCI profile and have identified the gaps preventing you from being PCI compliant. How do you get from here to the finish line? HALOCK offers a full suite of PCI compliance remediation and security program management solutions to help you identify and close those PCI compliance gaps.

HALOCK's security engineers work closely with your staff to identify, design, and/or implement the appropriate technical solutions to achieve your goal. Plus, we help you manage remediation efforts via security project and portfolio management, business analysis, process improvement, or even our Virtual Chief Information Security Officer (vCISO) service.

# **PCI VALIDATION**

Validation takes place through an Onsite Assessment and Report on Compliance (for organizations with a large transaction volume), or a Self-Assessment Questionnaire. Regardless of which requirement applies to you, our Qualified Security Advisors (QSAs) can help you compile the required evidence, audit security controls, and author the appropriate compliance reports to register and demonstrate your PCI compliance.

# PCI COMPLIANCE MAINTENANCE

As of PCI DSS v3.2.1, over 50 compliance activities specifically require ongoing operational efforts to monitor compliance. The most common causes for noncompliance during the annual onsite validation relate to control failures related to these activities. The Compliance Maintenance Program is conducted on a regular basis to monitor and assess recurring compliance activities. The efforts performed under this program support PCI DSS "Business as Usual" activities, establish a proactive approach to validating required compliance activities, and identify control failures in a timely manner that otherwise would result in noncompliance.

The HALOCK PCI DSS Compliance Program provides a process for achieving and maintaining PCI compliance that controls costs, maximizes return on security investment, and provides measurable indicators of progress. It is available as a one year program with monthly, bi-monthly or quarterly sessions.

#### Summary of Preliminary Findings from PCI Compliance Review Basic Overview of PCI Compliance Validation Requirements

The PCI Data Security Standard has over 200 specific security-related requirements, **all** of which must be met on an ongoing basis to be considered fully PCI compliant.

#### Actions Required for Validation of Compliance:

Based upon the nature of Client Name business lines and third party relative classified as a Level 4 Merchant, according to reported annual transaction details).



#### Primary Issues Currently Preventing PCI Compliance:

- Primary Issues Currently Preventing PCI Compliance:

   Network Architecture: The current network architecture would result in all systems on the ClientName network being in scope for PC compliance. By moving certain systems into isolated network segments, a significant portion of servers (and most likely a portion of the end-use PC3) at construction of the end-use PC3 and the portion of the end-use PC3 and network segments, a significant portion of servers (and most likely a portion of the end-use PC3) at cost savies when addressing error insing PC1 compliance gais. Long term, the goal may be to a payly the same security best practices to systems outside of the PC1 compliance so that the organization's compliance obligations can be met in a more timely and cost-effective manner.
   Firewall Harchening: Once the network architecture has been adjusted, firewall nets with have to be reconfigured so that traffic is adequately restricted according to PC1 requirements (DS5 section 1). Currently, serves that handle cards of documented system hardening standards, current servers and other in-scope systems do not appear to be adequately secured according to PC1 requirements (DS5 section 1). Sustem Hardmently: Low to a lack of documented systems handening standards, current servers and other in-scope systems do not appear to be adequately secured according to PC1 requirements (PC1 DS5 section 2). Hardening standards will need to be developed and anglied consistently to all production systems that are in-scope for PC1 compliance.
   Carnholder to that services that and cost of cryptographic key Management: Currently, many of the

- production systems that are in-copie of r-Lographic Rev Management: Currently, encryption-related requirements (PC DSS see[Base], Rev Management: Currently, the company who list is being stored lists (Base4, which does not meet the criteria PC DSS for rendering, cardholder data unreadable wherever it is stored (DSS reg Cardholder data this is lengy); and one space to be sported by the necessary ke
- processor. Lack of Security Controls Related to Application Development: Application development processors currently lack the required integration of standards for secure coding, testing, and change management, as required by section of the PC DDS. Application development standards will have to be documented, and security testing procedures will have to be integrated in the development process (per section descurity testing procedures will have to be integrated in the development process (per section
- and the DSS.
  Communicate credit cancently with more to emergence that the exceeping interpret of the DSS.
  Communicate credit cancel information. There are two issues with this. First, the DSS problets the sector emergence of the DSS is the DSS requires that all its order cancel cancel is the emergence of the DSS.
  For example, the DSS requires that all its order cancel of the DSS requires that all its order cancel ca



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The PCLDSS v3 1 provides heat practices for impl ws. especially of co to be properly implemented. Performing periodic reviews, especially of controls requiring recurring activities, support asstained compliance and in deading up to be annual notice assessmet. Movembring control performance is lay to detecting and responding to control failures in a timely many control failures need to be expediently restored and should also include: • Judiensing gavy security lisues that acrose driving the failure • Indementing improvements to prevent recourses of the control failure • Implementing improvements to prevent recourses of the control failure • Implementing improvements to prevent recourses of the control failure

Scope of Review The PC DSS V3.1 contains 12 requirements comprising 24 Correcting control failures during an assessment is not re-true for controls that contain implementation deadlines, in support of the Business as Usual process, HALDCK per ments comprising 240 sub reassessment is not recomm

Recurring Testing Summary of Observati The most recent review was performed on NA by Firstnam I requirements. Of these controls: There were 4 items that were not tested. These controls There were 2 additional tests planned, but were not made



# **HELPING YOU STAY COMPLIANT AND PROTECT YOUR DATA**

# WHY HALOCK?

Our professional team makes the process easier foryou.Benefitfromanindependent, experienced assessment that provides practical and actionableintelligence for a safer business environment.

- Deep technical and operational understanding of PCI DSS requirements
- Proven methods, efficient tools and a tested delivery process
- Dedicated QSAs for your assessment program
- Integration with the HALOCK Penetration Testing team

Purpose Driven Security® that focuses our attention on the underlying intent of each requirement as it relates to the particular circumstances of your business

# **About HALOCK**

Founded in 1996, HALOCK Security Labs is a thought-leading information security firm, that combines strengths in strategic management consulting with deep technical expertise. HALOCK's service philosophy is to apply just the right amount of security to protect critical assets, satisfy compliance requirements and achieve corporate goals. HALOCK's services include: Security and Risk Management, Compliance Validation, Penetration Testing, Incident Response Readiness, Security Organization Development, and Security Engineering.



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## **EDUCATION**



Agenda

### STRATEGY





# **DELIVERABLES THAT MAKE SENSE.**

HALOCK develops comprehensive reports that are fully customized for you. The reports outline PCI compliance issues identified during PCI compliance assessments and provides Recommendations for effective countermeasures if any controls are found to be missing or insufficient.