



## EXECUTIVE SUMMARY

### Partner Affiliation:

- Cisco Developer Network

### Associated Cisco Solution:

- Cisco PCI Solution for Retail 2.0

### Customer Benefits:

- Cisco PCI Solution for Retail 2.0
  - Simplifies PCI compliance
  - Reduces risk with end-to-end blueprint for mandated security
  - Gives customers secure shopping experiences
- HyTrust Secure Virtualization for Cisco PCI Solution
  - Provides access controls, hypervisor hardening, and logging for virtualized environments, which simplifies PCI compliance
  - Automates policy monitoring and enforcement
  - Streamlines PCI audits, forensic analysis, and change management

### Targeted Industries:

- Retail

### Geographical Regions Served:

- United States and Canada
- Europe

## Cisco PCI Solution for Retail 2.0: HyTrust Secure Virtualization for Cisco PCI

### Partner Overview

HyTrust is a leader in policy management and access control for virtual infrastructure. By providing enterprise-class controls for access, accountability, and visibility within virtualized environments, HyTrust empowers organizations to virtualize more servers, including those that may be subject to Payment Card Industry (PCI) requirements.

### Cisco Solution Description

The Cisco® PCI Solution for Retail 2.0 includes a set of validated designs that incorporate technology from Cisco and its partners. The solution helps retailers meet the requirements of the PCI Data Security Standard (PCI DSS). Cisco simplifies PCI compliance by providing the network and systems foundation for implementing comprehensive data security best practices and meeting today's regulatory compliance requirements. Business benefits of Cisco's PCI solution include:

- Simplifying PCI compliance
- Establishing a strong foundation for security, with a network and systems infrastructure that helps retailers address the 12 PCI requirements
- Securely and reliably protecting brand image and assets while mitigating the financial risk of noncompliance fines and penalties
- Accelerating new business initiatives by eliminating the need to redesign the network to accommodate PCI security requirements
- Building customer loyalty with a secure shopping experience

### Partner Components in the Cisco Solution

The HyTrust Appliance, a network-based policy management technology, introduces enterprise-class controls to virtual infrastructure. By integrating the HyTrust Appliance into the solution architecture, Cisco PCI Solution for Retail 2.0 lets customers take full

advantage of virtualization for hosting payment card information, without introducing vulnerabilities or compromising PCI compliance. For comprehensive accountability and visibility, the HyTrust Appliance capabilities span:

- **Unified access control:** Retailers can define and enforce highly granular access policies for virtual infrastructure. The HyTrust Appliance provides consistent control at the hypervisor layer to securely enable all access methods, including VMware vSphere client, web client, and Secure Shell (SSH) Protocol.
- **Virtual infrastructure policy:** Retailers can dictate strict, enforceable controls over the virtual environment. These controls map precisely to their operational requirements for PCI compliance.
- **Hypervisor hardening:** Access to VMware vSphere hosts allows the identification of configuration errors using prebuilt assessment frameworks such as PCI DSS, CIS Benchmark, VMware Best Practices, or even custom, user-defined templates. Without manual effort or scripts, the HyTrust Appliance proactively monitors hosts and simplifies the remediation of any configuration problems.
- **Audit-quality logging:** Granular, user-specific access logs streamline PCI audits, troubleshooting, and forensic analysis.

Unlike other security appliances, the HyTrust Appliance gives IT groups the ability to grant self-service to various internal organizations. With appropriately separated duties, the solution supports the introduction of privileged access policies within virtualized PCI environments.

### Related Cisco Products

- **Routing:** Cisco Integrated Services Routers (ISR, ISR G2), Cisco Aggregation Services Routers (ASR)
- **Switching:** Cisco Catalyst® compact switches, Cisco Catalyst access switches, and Cisco Catalyst data center switches, Cisco Nexus® 1000V Series Switches, Cisco Nexus 5000 and 7000 Series Switches, Cisco Application Control Engine (ACE), Cisco Multilayer Director Switch (MDS) with Storage Media Encryption module
- **Network Security:** Cisco Adaptive Security Appliance (ASA), Cisco IronPort® Email Security Appliance, Cisco Network Admission Control (NAC) Appliance, Cisco AnyConnect™ VPN, Cisco Firewall Services Modules (FWSM), Cisco Intrusion Detection System Services Modules (IDSM), Cisco Intrusion Prevention

System Appliances (IPS), Cisco Nexus Virtual Security Gateway (VSG), Cisco IOS® Firewall, Cisco IOS IPS, Cisco Secure Access Control Server (ACS)

- **Wireless:** Cisco Aironet® Access Points, Cisco Wireless LAN Controllers, Cisco Mobility Services Engine with enhanced local mode (ELM), Cisco Adaptive Wireless IPS
- **Physical Security:** Cisco Video Surveillance Operations Manager (VSOM), Cisco Video Surveillance IP Cameras, Cisco Physical Security Multiservices Platform (MSP), Cisco Physical Access Manager, Cisco Physical Access Gateways
- **Compute Systems and Storage:** Cisco Unified Computing System™ (UCS), Cisco UCS Express
- **Management:** Cisco Security Manager, Cisco Wireless Control System (WCS), CiscoWorks LAN Management Solution (LMS)
- **Voice:** Cisco Unified Communications Manager, Cisco Unified Contact Center Enterprise, Cisco Unified Intelligent Contact Management, Cisco Unified Customer Voice Portal, Cisco Unified IP Phones
- **WAN Optimization:** Cisco Wide Area Application Engine (WAE), Cisco Wide Area Application Services (WAAS)

### Related Partner Information

- PCI overview: <http://www.hytrust.com/solutions/pci-compliance/>
- White paper: "Virtualization and the Payment Card Industry Data Security Standard" <http://www.hytrust.com/resources/main/>
- HyTrust Appliance information: <http://www.hytrust.com/product/overview/>

### For More Information

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