

Electronics Retailer Adds PCI-Compliant Security

This chain store retailer moved from collapsed core to three-tier architecture for greater efficiency and security.

EXECUTIVE SUMMARY
ONLINE AND STORE ELECTRONICS CHAIN <ul style="list-style-type: none"> • 27 retail stores throughout United States • 475 employees
BUSINESS CHALLENGE <ul style="list-style-type: none"> • Architect and build second data center for disaster recovery • Deploy global load-balancing solution to support growing e-commerce traffic and transactions • Provide Payment Card Industry (PCI) Data Security Standard (DSS) compliant point-of-sale solution in stores
NETWORK SOLUTION <ul style="list-style-type: none"> • Cisco PCI for Retail
BUSINESS RESULTS <ul style="list-style-type: none"> • Achieved PCI DSS compliance in all U.S. stores • Deployed fully redundant disaster recovery data center that also provides load balancing and security for global e-commerce traffic.

Business Challenge

Based in Florida, where each hurricane season brings loss of life and property, this electronics retailer began an aggressive initiative to re-architect their data center and to add another data center to provide data redundancy and failover in the event of a disaster. The Cisco account team helped the customer with a new architecture that would expand the network from a collapsed core, with all traffic passing through a pair of switches, to three-tiers with core, distribution, and access layers.

In the middle of this effort, the company purchased 22 stores owned by another a major computer retailer that had recently closed. These stores required a Payment Card Industry (PCI) Data Security Standard (DSS) solution, so this was added

to the overall proposed Cisco solution

Network Solution

The company purchased Cisco Catalyst® 6500 Series switches for the core and aggregation layers of both data centers, with Cisco® ACE Application Control Engine blades to provide load balancing and firewall service modules to provide virtualized firewalls for all switches for incoming traffic. Access layer switches were upgraded to support 10 Gigabit Ethernet speeds.

For additional intrusion prevention protection, redundant Cisco IPS 4260 intrusion prevention system sensors were installed on Internet-facing equipment, along with Cisco Security Agent software, providing endpoint protection from targeted attacks, spyware, rootkits, and day-zero attacks. A Cisco ASA 5540 Adaptive Security Appliance was also deployed for network admission control of business-to-business VPN traffic. Finally, the Cisco Monitoring, Analysis, and Response System (MARS) 210 was deployed to provide event correlation.

Upgrading what was a disparate, multivendor storage environment, the company also purchased twin Cisco MDS 9222i Multiservice storage area network (SAN) switches through Cisco partner EMC. The solution greatly increases the ability of the storage environment to scale and provide dependable redundancy and failover.

In the stores, the company deployed a pair of Cisco Catalyst 3750 Series switches with power over Ethernet (PoE) in each location and a Cisco 2821 Integrated Services Router (ISR) with VSEC bundle for point-of-sale PCI DSS compliant security.

Business Results

Within a year of contemplating a revamp of their data center technology and plans for a disaster recovery site, this electronics retailer accomplished both goals. The new solutions contribute to a higher-speed, more secure network environment that can easily balance traffic and storage loads and scale as the business requires. The stores are now fully PCI DSS compliant thanks to Cisco solutions that fully secure traffic in the LAN and WAN through all network devices and layers.

PRODUCT LIST

Routing and Switching

- Cisco 2821 Series Integrated Services Routers with virtual security (VSEC) bundles
- Cisco Catalyst 6500 and 3750 Series switches

Security

- Cisco Intrusion Prevention System 4260 Series sensors
- Cisco Monitoring, Analysis, and Response System (MARS) 210

Storage

- Cisco MDS 9222i Multiservice Modular SAN switch

For More Information

To find out more about Cisco Solutions for Retail, go to:

<https://www.cisco.com/web/strategy/retail/index.html>



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