

Use Case

Segmentation for Payment Card Industry (PCI) Assets

Secure peer-to-peer connectivity and rapid compliance reporting for your PCI environments

What Our PCI Customers Experience:



50% Lower CapEx and OpEx
through PCI network simplification



Complete PCI Audits
50% Faster
without additional staff



90% Reduced Attack Surface
through cloaking, micro-segmentation,
and encryption

Challenge Overview - Costly and Complex Compliance

Being able to demonstrate PCI Data Security Standard (PCI DSS) compliance is simply a part of doing business today for organizations that store, process, and transmit cardholder data. However, the unfortunate reality is that even if an organization is deemed PCI compliant, its network and assets are not necessarily protected against cyberattacks. This is evident by the number of well-known organizations that were deemed PCI compliant, yet were breached.

As transactions are quickly moving beyond the traditional brick-and-mortar store fronts, the main challenge our customers encountered was the cost and complexity of deploying, maintaining, and auditing traditional IT solutions across separate enterprise, remote, and cloud infrastructures. The time, expertise, and budget needed to provision and manage firewalls, VPNs, routers, switches, modems, ACLs, and VLANs for every system was impractical and still left them exposed to hacker reconnaissance and exploits. The result? Failed audits and possible penalty fees.

Tempered Networks – Simple Compliance and Segmentation

Identity Defined Networking (IDN) for PCI systems creates a highly available, natively secure, and simple network so our customers have peace of mind when leaving the office. With IDN, our customer deploy secure and micro-segmented overlay networks in minutes, rather than days or weeks compared to traditional IT solutions. And even better, the cost is a fraction of those traditional IT alternatives. Now they can easily meet regulatory requirements with a cost-efficient solution.



Network Challenges:

- PCI audit scope often includes non-PCI assets due to lack of segmentation
- Different security and networking architectures for IT, industrial, virtual, and cloud environments
- Ongoing IP addressing issues and conflicts across the network

Security Challenges:

- Inability to quickly cloak and segment systems to protect against horizontal network attacks
- 3rd party contractors and auditors have unfettered access to any device on the network

People and Process Challenges:

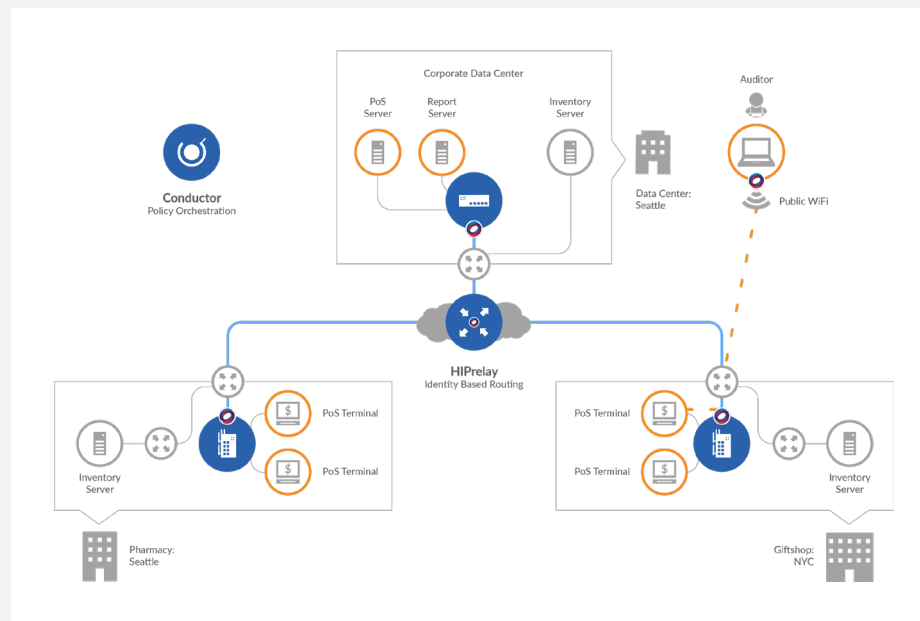
- Costly and complex audits of individual firewall rules, ACLs, and VLANs
- Non-compliance can result in high penalty fees and termination of transaction facilities

“In our lab testing against the relevant requirements of PCI DSS we found that the IDN platform provided very effective security and protection.”

Chief Strategist
Coalfire
Qualified Security Assessor

Challenges with Traditional IT Solutions

- Inability to quickly connect and collect data from any system, anywhere
- High acquisition and management costs of distributed firewalls, VPNs, routers, cellular modems, and switches
- Complex firewall rules, ACLs, VLANs, certificates, VPN tunnels etc. across distributed systems
- Inability to quickly provide contractors micro-segmented remote access to specific systems
- Cascading dependencies between network and security infrastructure that easily expose the network to human error and hackers



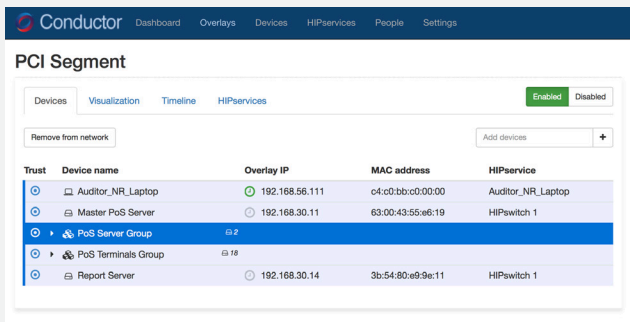
Native Security and Network Simplification with Tempered Networks

- Simple PCI compliance reporting
- Reduction of PCI audit scope through hardened isolation of your network
- Micro-segmentation and native end-to-end encryption across the LAN, WAN, and cloud
- Ability to connect remote systems over any medium – cell, Ethernet, Wi-Fi, or radio.
- Eliminate IP addressing issues and conflicts, without having to re-IP devices
- Eliminate network operational complexity and errors

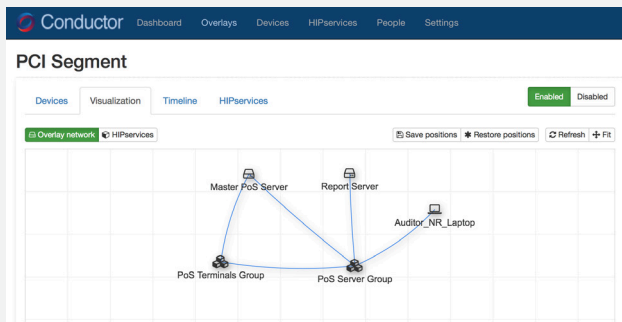
With IDN, IT teams can eliminate network complexity and securely connect any device, over any network, across any location, with little to no changes to the underlying network infrastructure. The process, referred to as instant overlay networking, results in massive simplification of your network, coupled with next-gen security and resiliency that can't be achieved using traditional IT solutions. Teams can now quickly connect, micro-segment, encrypt, and manage their PCI deployments based on verifiable machine identity and the simple process of machine whitelisting based on trust.

Trust-Based Connectivity and Micro-Segmentation in Minutes

Tempered Networks' scalable orchestration engine was designed to be extremely easy to use with no advanced technical training. Unlike the many complex, fragile, and time-consuming steps associated with traditional IT solutions, our customers eliminate human error through simple policy orchestration. All system-level network connections are automatically authenticated and authorized between every endpoint through trusted and verifiable machine identities that can't be exploited. With a single networking architecture spanning IT, industrial, virtual, and cloud environments, you can now enforce consistent security context across all PCI environments.



Trusted end-to-end connectivity with point-and-click simplicity to add, disable, and revoke machines.



The Visual Trust Map verifies connectivity and segmentation, delivering simple compliance reporting

Business Impacts of Traditional IT Solutions vs. Tempered Networks

The benefits below are based on a customer scenario securely connecting ~75 geographically distributed payment systems across 3 remote sites. Unlike traditional IT solutions, with Tempered Networks every PCI system is isolated across its own encrypted and segmented overlay network that can't be violated.

IMPACTS	TRADITIONAL IT SOLUTIONS	TEMPERED NETWORKS SOLUTION
EQUIPMENT COST	\$200,000+	\$50,000
DEPLOYMENT TIME	250 FTE DAYS	15 FTE DAYS
AUDIT TIME	5 FTE / 4 MONTHS	2 FTE / 3 MONTHS
ADDITIONAL HEADCOUNT	~ 1 NEW ADMINS	0 NEW ADMINS

*Traditional IT Solutions include: Firewalls, VPNs, Routers, Modems, VLANs, ACLs, NAC, Port Lockdown, etc



Have us prove it to you in less than 30 minutes.

Visit temperednetworks.com/segment-pci to request a demo or call us at 206.452.5500