NIPPER ENTERPRISE

# Foundational network configuration security

## Zero Trust and PCI DSS v4.0 assurance at scale

Unclassified

Ian Robinson | Chief Architect

# Agenda

PCI DSS and Zero Trust

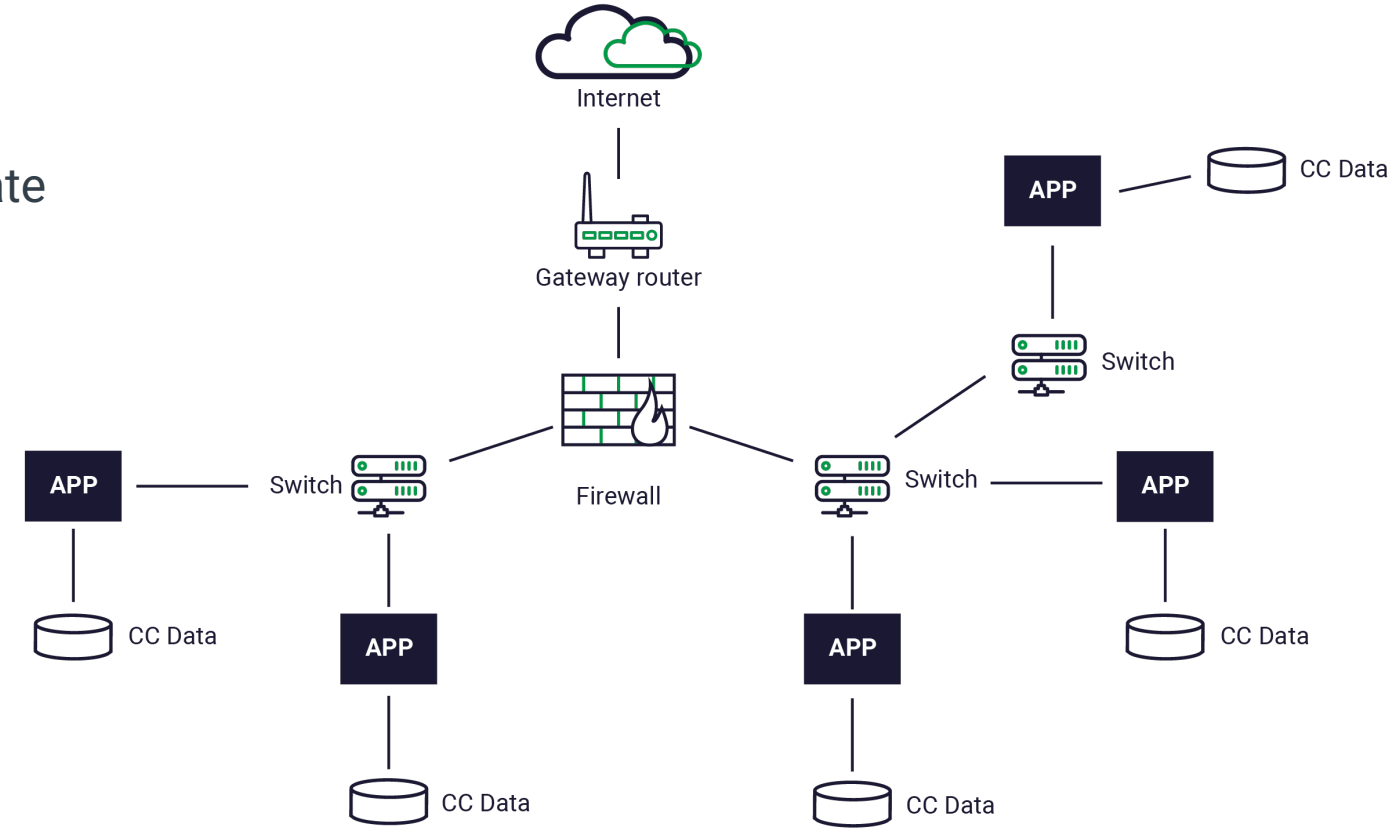
- Protecting the CDE... and beyond
- PCI DSS v4.0 – leading the way
    1. Effective network segmentation
    2. Risk Assessments
    3. Avoid sampling where automation allows
    4. Security as a continuous process
- Nipper Enterprise Demo
    1. Continuous Auditing
    2. Proactive Auditing

> “Firewalls can’t solve today’s most urgent security priorities. After all, more than 80 percent of network traffic is inside the perimeter.”
>
> Guardicore Centra / Forrester

# Protecting the CDE and beyond...

## Best Practices in Network Segmentation

- ✓ Minimises attack surface of critical real estate
- ✓ Reduces susceptibility to ransomware
- ✓ Prevents lateral movement across the network
- ✓ Allows for the assessment of each and every device, rather than a sample
- ✓ Improves ability to consistently meet compliance
- ✓ Foundational component of Zero Trust network access




*US Depart of Defense Zero Trust Reference Architecture*

# PCI DSS v4.0 – Leading the way

Major change in standards to deliver security from compliance

PCI DSS v4.0

1. **Meet the security needs payment industry**
2. **Promote security as continuous process**
3. **Add flexibility for different methodologies**
4. **Enhance validation methods**

**Zero Trust Best Practices:**

- ✓ Effective network segmentation
- ✓ Risk assessments inform policy enforcement cadence
- ✓ Leverage automation to automate auditing of every device/asset
- ✓ Risk prioritized mitigation

# Security as a Continuous Process

Configuration Drift

## Current approach failing:

Inaccurate automation → Insufficient resource → Ad hoc audit + Device sampling → Pass/fail compliance

**RESULTS**

Inadequate security from RMF compliance

## Best practice continuous approach required:

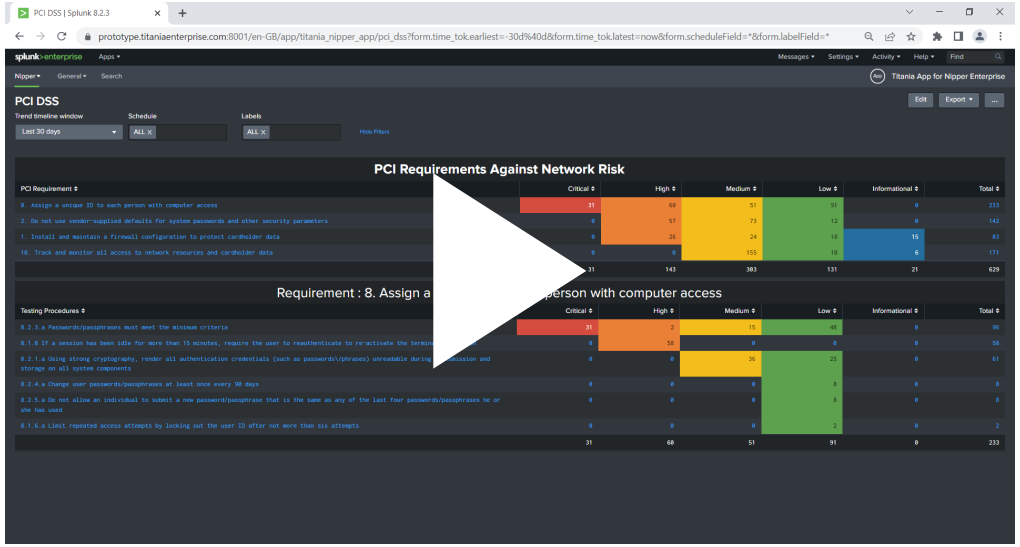
Accurate and scalable automation → Continuous audit of entire enterprise → Accurate monthly RMF snapshots; Daily "critical risk" config drift monitoring; Risk-prioritised remediation plans

**RESULTS**

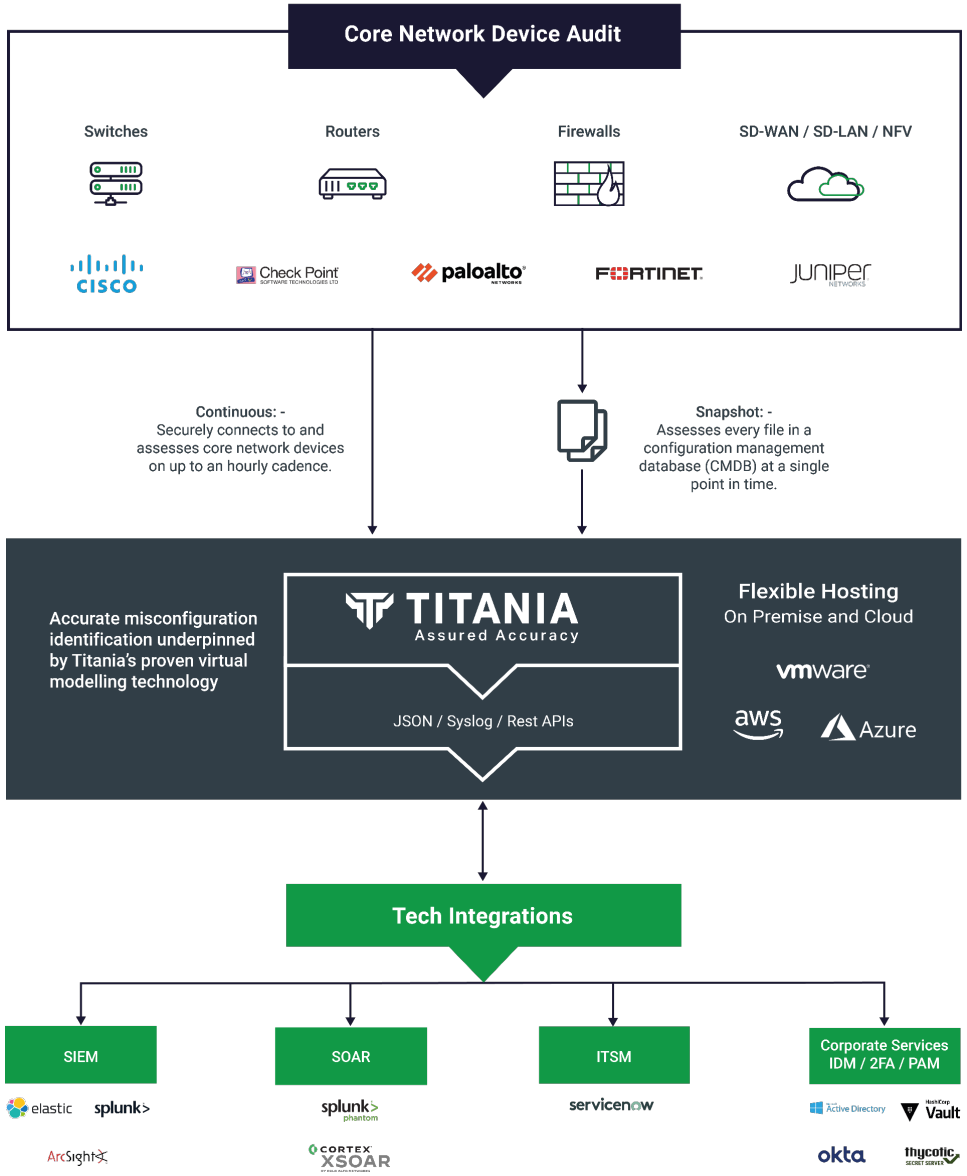
Greater Security, consistent PCI DSS compliance, and ZT assurance at scale

# Nipper Enterprise Demo

## Accurate PCI DSS compliance posture assessments




## NIPPER ENTERPRISE: TECHNOLOGY & DEVICE INTEGRATIONS



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# Any questions?

"Human error creates the biggest threat. Technicians can inadvertently misconfigure devices, opening holes. So, we need to go back and validate configs."

Steve Wallace | DISA Emerging Technology Directorate

"Without evidence from assurance processes, it's very difficult to make credible risk-based decisions."

Dr. Ron Ross | NIST Systems Security Engineering Project Lead

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# Thank You.

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