Discover the Power of NP-View™

The Fastest Path to Comprehensive OT Network Visibility and Verification

NP-View offers proactive offline OT network security analysis by providing a platform to model and visualize network access pathways without the need for agents, configuration changes, or additional hardware. The resulting network models streamline compliance verification, document architecture and configuration, verify firewall access rules, and confirm proper segmentation throughout the network environment.

Network Visibility: Automated Network Topology Mapping

- Automated non-intrusive generation of comprehensive network topology maps which take the place of manual drawings that can quickly get outdated.
- Optimize operations with network visualization models used to simplify complex network structures and enhance troubleshooting capabilities.
- Enhanced network context provided within the topology map via imported network asset and vulnerability data.

Network Topology Map Report

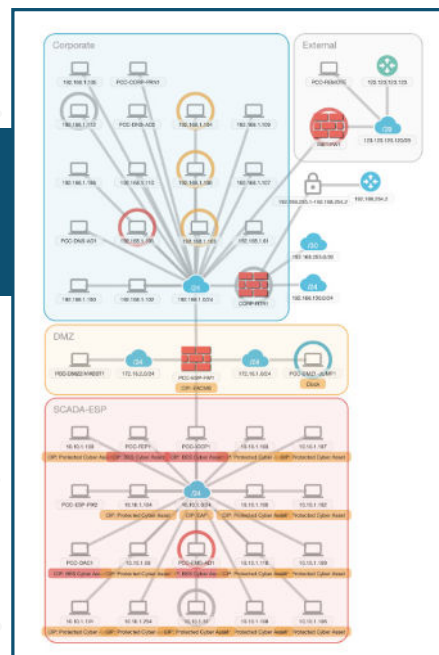**Network Visualization + Mapping =**
The quickest, most accurate way to see your network giving you the highest degree of confidence in your operations

"NP-View's lightweight, non-intrusive setup not only enables users to swiftly grasp their OT networks but also provides a sense of confidence and assurance."

Patrick Miller, CEO Ampere Industrial Security

Firewall Ruleset Auditing: Comprehensive Ruleset Verification and Justification

- Simplify ruleset analysis with unified table view, color highlights and annotations for security compliance verification and justification.
- Save time and labor reviewing access rules with dynamic drill down to exact source location in configuration file and highlighting overly permissive rules.
- Identify, mitigate, and minimize the potential cybersecurity impact of human error.
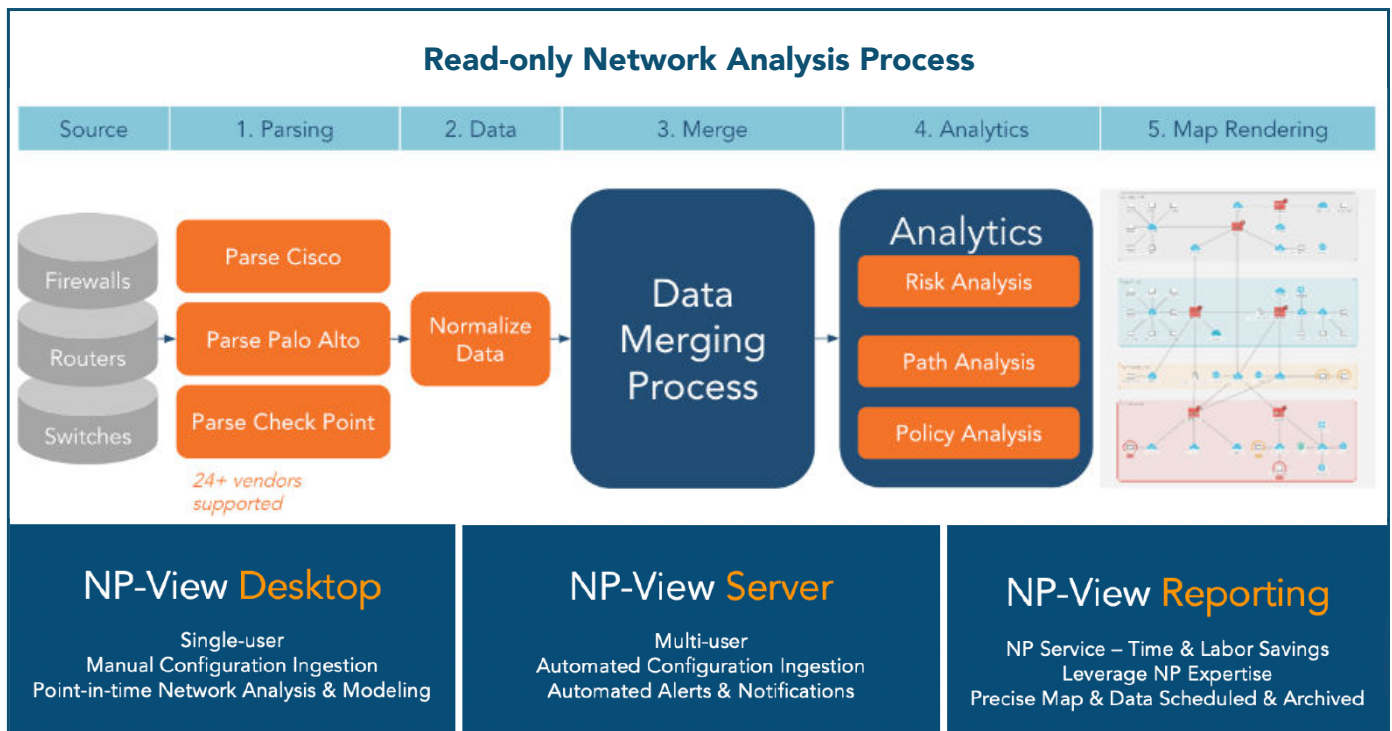
Access Rule Report

Network Segmentation: Network Defense through Segmentation Verification

- Gain instant visibility of the network environment's segmentation policy.
- Strengthen defenses and understanding of network segmentation policy by providing a visual matrix detailing zone to zone communication access permissions.
- Document all communication pathways to and from critical assets.
- Identify potential misconfigurations that enable unintended access permissions.

⊕ Connectivity Matrix Report

TO ⊕ / FROM ⊕	CORP-1 192.168.1.0/24	DMZ-1 172.16.1.0/24 172.16.2.0/24	DMZ-2 172.16.100.0/24 172.16.200.0/24	ESP-1 10.10.1.0/24	ESP-2 10.10.100.0/24	CORPORATE 192.168.100.0/24	INTERNET 123.123.123.120/29
CORP-1 192.168.1.0/24		TCP/443 TCP/3389	Denied	TCP/443 TCP/8531	Denied	IP/any	TCP/80 TCP/443 TCP/any UDP/53 UDP/any
DMZ-1 172.16.1.0/24 172.16.2.0/24	TCP/443		Denied	TCP/22 TCP/443 TCP/3389	Denied	Denied	Denied
DMZ-2 172.16.100.0/24 172.16.200.0/24	Denied	Denied		Denied	TCP/22 TCP/443 TCP/3389	TCP/443	Denied
ESP-1 10.10.1.0/24	TCP/8531 TCP/9100	TCP/5001	Denied		IP/any	Denied	Denied
ESP-2 10.10.100.0/24	Denied	Denied	TCP/9001	IP/any		TCP/8531 TCP/9100	Denied
CORPORATE 192.168.100.0/24	Denied	Denied	TCP/443 TCP/3389	Denied	Denied		TCP/443 TCP/any UDP/53 UDP/80 UDP/any
INTERNET 123.123.123.120/29	TCP/443	Denied	Denied	TCP/443	Denied	TCP/443	

NP-View Delivery Models

Read-only Network Analysis Process

| Source | 1. Parsing | 2. Data | 3. Merge | 4. Analytics | 5. Map Rendering |

Firewalls / Routers / Switches

Parse Cisco
Parse Palo Alto
Parse Check Point
24+ vendors supported

Normalize Data → Data Merging Process → Analytics (Risk Analysis, Path Analysis, Policy Analysis)

NP-View Desktop
Single-user
Manual Configuration Ingestion
Point-in-time Network Analysis & Modeling

NP-View Server
Multi-user
Automated Configuration Ingestion
Automated Alerts & Notifications

NP-View Reporting
NP Service – Time & Labor Savings
Leverage NP Expertise
Precise Map & Data Scheduled & Archived

About Network Perception

Launched in 2014 at the University of Illinois at Urbana-Champaign Research Park, Network Perception was founded by a team of network security and critical infrastructure protection experts. Its flagship product, NP-View, provides a lightweight, non-invasive network visualization platform for OT networks that enables organizations to rapidly identify network vulnerabilities, assess risks and ensure compliance.

To learn more, visit https://network-perception.com

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