SOLUTION BRIEF

Fortinet and Network Perception Security Solution

Executive Summary

Network Perception's cybersecurity software is the first line of perimeter defense for industrial control networks. Together with Fortinet, Network Perception's NP-View platform provides continuous mapping, unprecedented visibility into organizational access policies, and simplifies workflows to enable proactive and continuous verification.

The Network Perception NP-View platform protects your critical assets by providing compliance verification, cybersecurity visibility, and operational velocity.

Network Perception establishes a baseline and validates your risk assessment framework. NP-View allows you to gain visibility of risk exposure and network access paths, and provides visibility and verification to achieve greater cyber resiliency.

The integration between Fortinet and Network Perception NP-View provides network engineers and network security and compliance analysts with an easy review of firewall access rules and object groups. The integration provides automatic identification of configuration risks and the information needed to establish a configuration change review process. NP-View audit assistants allow the compliance team to verify cybersecurity regulations and best practices and prepare audit-ready artifacts.

For visual learners, NP-View provides the networking team with a topology map of their architecture. The topology can be used to identify and label critical cyber assets and network zones and review which devices are protecting which network zones.

Network Perception provides the following solutions to ensure proper proactive monitoring of your network systems:

Compliance Verification

Organizations have to separate control from monitoring to evaluate the impact of proposed changes to policies and configurations using an independent policy review process.

Cybersecurity Visibility

Eighty percent of organizations lack the network visibility they need to understand the assets they have to defend. The solution is to invest in an architecture review by building an accurate network topology.

Operational Velocity

Point-in-time assessments are no longer sufficient to address today's cyberattacks. Organizations should invest in continuous configuration monitoring in order to reduce their risk profile.

Solution Benefits

NP-View connects with your Fortinet devices to automatically retrieve configuration files to report change detection and risk identification.

- Automatically retrieve configuration files from FortiGate Next-Generation Firewalls (NGFWs) or FortiManager
- Automatically analyze NGFW configurations to identify potential configuration risks and vulnerabilities
- Automatically alert key users of potential risk situations in near real time
- Provide an interactive visual representation of the network topology and cyber-risk areas

FORTINET FABRIC-READY

Fortinet products in the joint solution include FortiGate NGFWs and FortiManager

FortiGate NGFWs deliver industry-leading enterprise security for any edge at any scale with full visibility and threat protection. Organizations can weave security deep into the hybrid IT architecture and build security-driven networks to achieve:

- Ultra-fast security, end to end
- Consistent real-time defense with FortiGuard Services
- Excellent user experience with security processing units
- Operational efficiency and automated workflows

FortiManager provides centralized management of the Fortinet Security Fabric resulting in complete visibility and protection against security threats. Integrated with the Fortinet Security Fabric, its advanced security architecture and automation-driven network operations capabilities provide a solid foundation to secure and optimize network security. Key benefits include:

- Increased operational efficiency with visibility and orchestration across the Fortinet Security Fabric via a single console
- Accelerated zero-touch provisioning with best-practice templates and device blueprints for deployment at scale
- Streamlined workflows between the Fortinet Security Fabric and enterprise workflows, supporting a wide variety of integrations with external products and systems

Joint Solution Description

Network Perception NP-View combined with Fortinet provides a comprehensive, independent audit platform to track and verify system changes and provide network visibility. NP-View provides auditors with assessment reports and network engineers with proactive alerts to help identify potential network risk. The NP-View read-only approach isolates the assessment team from the management systems, providing a secure barrier to prevent accidental system changes. NP-View comprehensive connectivity path analysis allows for the assessment of each network path and visibility into the nearest neighbors with stepping-stone analysis to identify system vulnerabilities.

The functionality of the joint solution is summarized in the following illustration:

Intelligent Network Topology

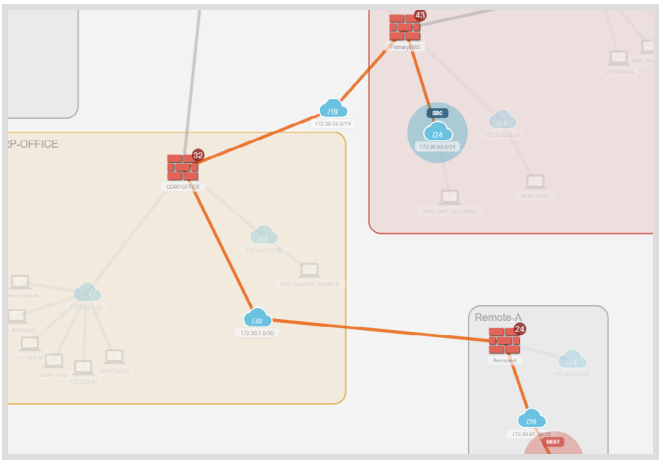
- Uses only device configuration
- Easy navigation & customization
- Designed for both technical and non-technical users

Intelligent Network Topology

- End-to-end connectivity
- Ports and services review
- Stepping-stone attack map

Singe Pane of Glass

- Import scanner reports
- Visualize vulnerability exposure
- Import ARP tables, netstat output, PCAP traces, hostname files



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Use Cases

Use Case 1: Verify Configurations for Compliance

Challenge

A mission-critical operational technology (OT) application has a network of high-availability FortiGate NGFW pairs connected to FortiManager. The internal audit team needs to collect information to perform a compliance review.

Solution

NP-View policy review provides compliance analysts with automated capabilities to easily collect and review cyber assets with their firewall access rules and object groups. Audit assistants provide automatic identification and reporting of configuration risks and remediation recommendations.

Use Case 2: Network Architecture Review

Challenge

A mission-critical IT facility is replacing its legacy network with FortiGate NGFWs. The network architecture team wants to evaluate the network rules for potential risks before going live.

Solution

NP-View Architecture Review provides the networking team with capabilities for easy creation and visualization of an accurate topology of the network architecture. The topology can be used for evaluating the architecture for potential risks before the configurations are pushed into production by FortiManager.

About Network Perception

Network Perception's platform takes essential auditing technology and makes it continuous for proactive OT network security that builds cyber resiliency. NP-View creates intuitive topological maps that serve as a GPS for both technical and non-technical users, providing a unified ruleset review and insight into how to ensure network security.

Threats don't wait for an audit, and neither should you. With Network Perception, you know your risk now and always and can protect your critical networks.

NP-View provides proactive OT security that uses continuous visualization and risk assessment to verify network segmentation and to identify network vulnerabilities before they become breaches.

- Import your network device configurations offline or continuously to instantly visualize your network architecture
- Understand your network's connectivity and the exposure of your protected assets
- Verify access to ports and services across different trust zones

Learn more at Network Perception.

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