CHECK POINT + NOZOMI NETWORKS SECURE INDUSTRIAL NETWORKS

Benefits

- Provides up-to-the minute intrusion detection and situational awareness for industrial networks as part of an end-to-end security solution
- Automates the identification of industrial assets, topologies, and communications
- Operates non-intrusively, with no downtime or disruption to industrial networks requiring high availability
- Rapidly identifies industrial cybersecurity and process anomalies
- Understands industrial protocols and applies Deep Packet Inspection to analyze communications and identify issues
- Facilitates pre-emptive action or fast incident mitigation by automatically updating Check Point security infrastructure
- Allows real-time querying of any aspect of industrial network or ICS performance, significantly reducing manual efforts
- Scales across hundreds of sites while delivering optimal performance

CHALLENGES IN SECURING INDUSTRIAL NETWORKS

The industrial networks that provide communication for vital Industrial Control Systems (ICS) such as those in power, water and transportation systems, as well as for manufacturing systems, differ from IT systems in many ways. They typically have very high availability requirements, communicate via unique industrial protocols, and connect a wide variety of equipment that can have lifespans of 30 years of more.

Historically protected by isolation, these networks have ridden a decade-long trend towards system connectedness, and have had a dramatic increase in industrial cyber-attacks and vulnerability disclosures. This means that securing ICS is now urgent. The challenge has been the lack of easy-to-deploy, non-disruptive solutions that address Operational Technology (OT) requirements and that integrate with end-to-end IT systems.

INTEGRATED END-TO-END SECURITY

The integrated Check Point and Nozomi Networks' solution adds ICS intrusion detection and passive OT monitoring to the comprehensive Check Point security suite. Standard Check Point Security Gateways and 1200R Rugged Security Appliances secure perimeters, the IT to OT connection and zones within industrial networks. In addition, Check Point Endpoint Security Agents secure PC assets in the industrial network.

Nozomi Networks' SCADAguardian connects to SPAN or mirror ports on standard Check Point Security Gateways or Check Point 1200R Rugged Security Appliances and automatically identifies industrial assets and network activity plus provides real-time monitoring of cybersecurity and process anomalies. ICS anomaly information is aggregated into meaningful alerts and communicated to the Check Point security management infrastructure.

With our unified reporting, you can detect any threat to the application, process or network, providing granular visibility of SCADA traffic and facilitating attack forensics. Integrated network and endpoint threat forensics reveals the entire sequence of an attack event. When security events are centrally managed, you get a complete view across your enterprise and control networks.

NOZOMI NETWORKS' ADVANTAGE

Real-Time Cyber-Security and Visibility

Nozomi Networks' SCADAguardian solves an important part of the ICS security problem by providing comprehensive, real-time cybersecurity and visibility for industrial control networks. It does it in a way that is completely non-intrusive and safe for ICS networks and it integrates with Check Point's security architecture.

Rapid Identification of Anomalies

Examples of the type of incidents SCADAguardian detects include:

- Malicious cyber threats such as zero-day attacks with no fixed signature or pattern
- Scanning and MITM (Man-In-the-Middle) attacks
- Unintentional cyber incidents such as device-generated traffic storms
- Suspicious behavior such as remote access, configurations, or downloads by unauthorized users
- Misconfigurations and process anomalies
- Any issue that might impact availability, safety or security of ICS

Advanced ICS Monitoring

Reduce Troubleshooting and Remediation Efforts

Instead of spending days decoding network data and manually aggregating information from various sources, use SCADAguardian's deep and centralized analysis to quickly arrive at real-time answers to industrial issues and incident investigations. You save time and reduce costs.

Preempt Corrective Maintenance

By combining centralized monitoring and continuous process anomaly detection, you get notified of failing equipment and can conduct less costly preventive maintenance.

Save Time and Avoid Regulatory Compliance Fines

SCADAguardian provides detailed, automated business reports, eliminating the need for time consuming, manual data aggregation and avoiding regulatory penalties.

Easily Monitor Remote Sites from a Central Location

Take advantage of visibility across multiple plants and large geographic areas using the Nozomi Networks' Central Management Console. Remotely troubleshoot and respond to incidents faster and reduce onsite support costs.

CHECK POINT ADVANTAGE

Align IT and OT Security

Deploy our security platforms across your enterprise IT and OT networks for a unified end-to-end security architecture to protect critical assets from threats. Threats to IT networks are protected from OT networks that are not updated or patched as frequently as enterprise systems and do not have the same level of security. OT networks are protected from Advanced Persistent Threats that target IT networks.

Enable Boundary Defenses

Implement granular protection to segment and isolate connectivity to and between facilities and production areas, following the IEC 62443 (ISA-99) zones and conduits model. Ensure the security of the SCADA network devices perimeter and interface points. Ensure that all endpoints and portable equipment used for management is secured with port control protection and free from malware. Our complete IT-OT security solution protects the corporate perimeter, the bridge between IT and OT networks and operator workstations and SCADA devices within the OT network.

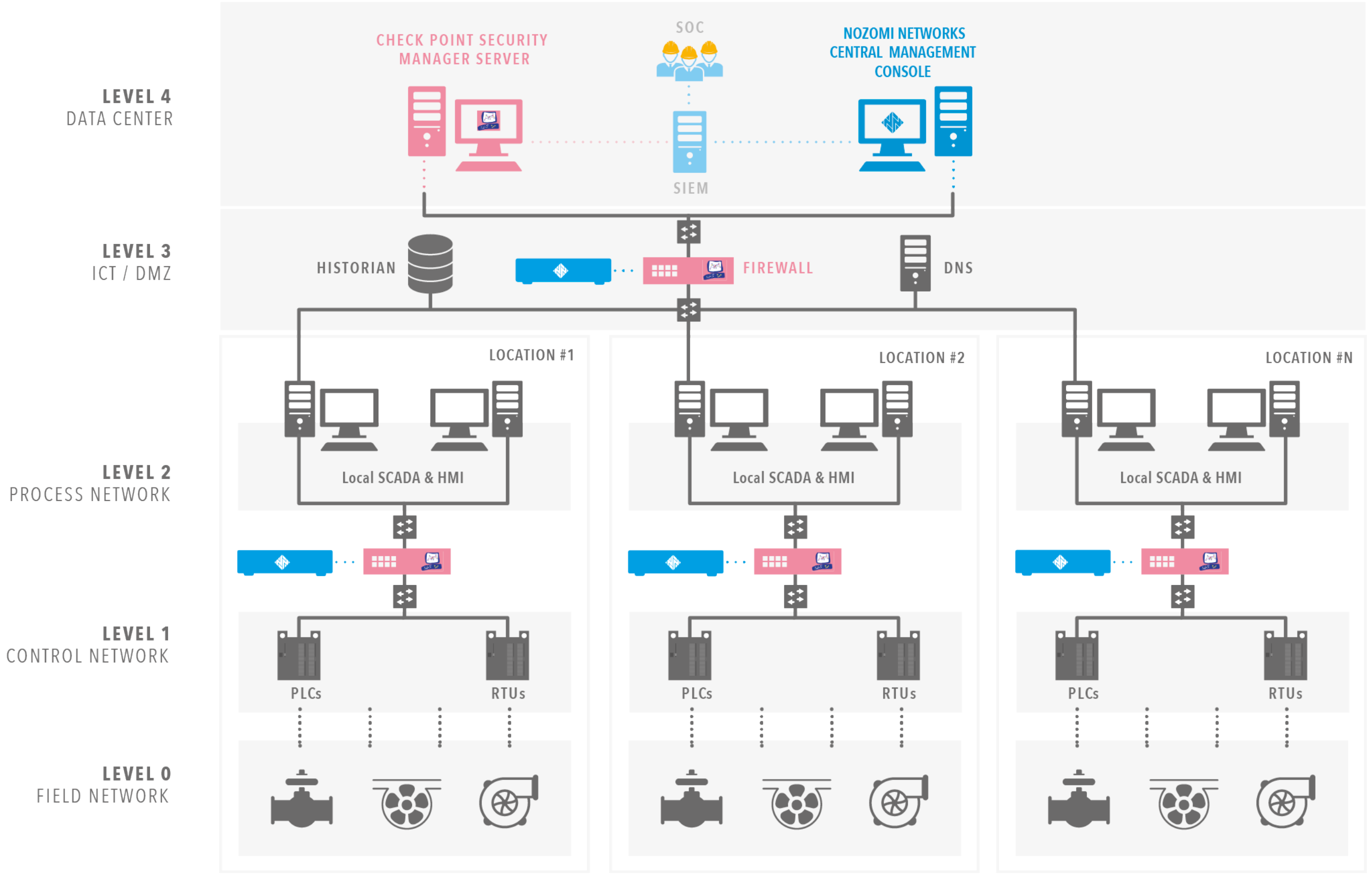
Broad ICS/SCADA Protocol Support

Check Point Application Control has broad support for specialized SCADA and ICS protocols with granularity for over 800 SCADA specific commands. Support for additional protocols is available on request. This enables protocol-specific controls with directional awareness. For instance administrators are able to create a policy to prevent monitoring and reporting systems from performing write operations to control systems. Our protocol decoders enable granular control at the command level, for example read/write/get for specific units, function codes and address ranges.

Wide Range of Appliances

Hardened appliances complement our extensive appliance family to support a diverse range of deployment environments and meet specialized requirements. Our 1200R Rugged appliance complies with industrial specifications such as IEEE 1613 and IEC 61850-3 for heat, vibration and immunity to electromagnetic interference (EMI).

SAMPLE ARCHITECTURE



SUMMARY

Up to now, it’s been difficult to implement comprehensive, real-time visibility and protection in ICS networks, its devices and process status. Without that insight, protecting the control network from cyber-attacks and avoiding operational disruptions is a challenge. Nozomi Networks’ innovative technology in combination with the Check Point portfolio of firewall products solve this challenge and does it in a way that is completely non-intrusive and safe for ICS and SCADA networks. The combination of Nozomi Networks’ passive OT monitoring solution with Check Point’s active packet filtering devices at key points in the network (see Sample Architecture) provides industrial networks with strong cyber protection and cyber resiliency.

ABOUT CHECK POINT

Check Point Software Technologies Ltd. (www.checkpoint.com), is the largest network cyber security vendor globally, providing industry-leading solutions and protecting customers from cyber-attacks with an unmatched catch rate of malware and other types of threats. Check Point offers a complete security architecture defending enterprises – from networks to mobile devices – in addition to the most comprehensive and intuitive security management. Check Point protects over 100,000 organizations of all sizes.

ABOUT NOZOMI NETWORKS

Nozomi Networks Inc. (www.nozominetworks.com) provides innovative cybersecurity and operational visibility solutions for industrial control systems (ICS). Its technology delivers immediate insight into ICS networks, devices, and process status, rapidly identifying and enabling fast remediation of cyber-attacks and process anomalies. Deployed in some of the world’s largest industrial installations, operators trust Nozomi Networks’ products to enhance cybersecurity, maximize uptime and deliver real ROI.

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