With the advent of Industry 4.0, smart factory floors are leveraging the Industrial Internet of Things (IIoT) and Behavioral Analytics, and cloud computing to detect anomalous device behavior and boost factory floor efficiency. Despite these advances, factory floor repairs still often require technicians to visit the factory which leads to prolonged production outages.

Overview

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A powerful framework for NAC visibility and enforcement

Manufacturers are redesigning their security architectures to protect their IT and OT infrastructure under a united zero-trust security umbrella. It gives OT teams a tool to discover, profile and secure the smart devices operating within their environment. It provides a way to automate the infrastructure demarc between IT and OT to expand the use of zero-trust policies in both domains for maximum security while also providing added value to address practical issues such as rapid factory floor repair for maximum factory floor uptime.

Pulse Secure Release 9.0 combines VPN and NAC technologies to provide a single zero-trust security umbrella for blended IT and OT environments while also delivering greater efficiencies for manufacturing.

Problems We Solve

Zero-Trust IoT Framework
Trust no device inside or outside of the enterprise perimeter unless verified

Network Profiling
Discover and profiles manufacturing floor IIoT systems, such as SCADAs, PLCs and HMIs

Behavior Analytics
Detect anomalous device behavior for potential malware and domain generation algorithm (DGA) attacks.

End-to-end compliance
Comprehensive management from endpoint to datacenter identifying unauthorized devices and applications while remediating on demand.
Secure access auto-provisioning
Automate secure access control to devices including IoT through Pulse Policy Secure 3rd party integrations with next-generation firewalls via API, Syslog, and IF-MAP protocol. Configure access-policies to restrict authorized user access to IoT devices.

Flexible deployment
Deploy and scale using multi-purpose physical (PSA series) or virtual (VMware, Hyper-V & KVM) appliances. Simplify and scale deployments with an embedded RADIUS Server, IF-MAP Server, and EMM platform.

Native unified client
Deliver an intuitive user experience via the multifunction Pulse Client, which can be used both for NAC and remote VPN access and provides real-time posture assessment for compliance enforcement.

Self-provisioned onboarding
Simplify deployment with automated, self-service onboarding of laptops, smartphones, and tablets independent of user location or device ownership (e.g., BYOD, COPE).

Behavior Analytics
Enhanced security detects anomalous behavior for managed and unmanaged devices including IoT. Identify user/device traffic patterns to detect potential malware and domain generation algorithm (DGA) attacks.

Network Profiler
Dynamically identify and enable automatic and custom classification of both managed and unmanaged endpoint devices including IoT, to provide operational visibility, reporting and policy-based controlled access to networks and resources based on the user, device, applications and other attributes.

About Pulse Secure, LLC
Pulse Secure, LLC is a leading provider of access and mobile security solutions to both enterprises and service providers. Enterprises from every vertical and of all sizes utilize the company's Pulse virtual private network (VPN), network access control (NAC) and mobile security products to enable end user mobility securely and seamlessly in their organizations. Pulse Secure's mission is to enable open, integrated enterprise system solutions that empower business productivity through seamless mobility.IoT-Webinar

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