

## AUTOMATED VULNERABILITY MANAGEMENT IN PHARMACEUTICAL & MEDICAL DEVICE MANUFACTURING ENVIRONMENTS

### **Highlights:**

- Top 10 Medical Device/Pharma company needed to address cyber security vulnerabilities in manufacturing environment
- Historical negative impact from scanning and patching on legacy Operational Technology devices
- Little visibility into manufacturing networks
- Lack of formal OT support across geographic sites
- Verve Security Center (VSC) enables OT-safe vulnerability identification across end point, access control, network, etc.
- Integrated actions reduce cost and time to remediate
- Multi-site reporting allows for central analysis and compliance visibility
- Verve Design-4-Defense services provide experienced assessment and remediation
- Lower cost, better visibility, greater security analytics, comprehensive reporting

Cyber security in pharmaceutical and medical device manufacturing poses a significant challenge. Legacy equipment, regulatory requirements on validated and/or quality systems, geographically distributed plants often segmented from IT networks, and proprietary embedded devices combine to create barriers to successful vulnerability and security management in these environments.

A large pharma/medical device manufacturer with dozens of plants across the world needed to manage vulnerabilities and security posture in manufacturing networks. They had tried traditional IT tools such as vulnerability scanning, patch modules, AV, etc. Unfortunately, these tools not only were very inefficient in the segmented networks, but also created operational and regulatory risks from scanning and changing settings without proper manufacturing team involvement.

The client needed an OT-safe vulnerability management approach that provided visibility and assessment as well as the ability to remediate efficiently.

The critical customer needs included:

- Visibility of all IT & Operational Technology end points
- Deployment in multi-site environment with segmented networks
- End point and Network Vulnerability assessments without running intrusive scans
- Enable analysts to “think globally, and act locally” to scale limited resources with central analysis but safe, plant-level action
- Services resources with deep manufacturing experience to work with operations leaders



**ASSESS**

- **All end points**
- **Network & access**

**REMEDiate**

- **Multiple tools**
- **Single database**

**REPORT**

- **Muti-site/server**
- **Easy to use UI**

**SAFELY**

- **Non-intrusive**
- **Operator controlled**
- **Proven**

The Verve Security Center (VSC) was the answer. Extending industry-leading BigFix, VSC enables OT leadership to use the same tools as their IT counterparts. Moreover, in that same platform, they can also manage all of the complex, proprietary devices that exist in an OT environment using Verve's agentless device interface (ADI). And VSC's unique hybrid architecture enables multi-site reporting, with localized actions for patching, configuration, and other protective management.

**FEATURES**

- Coverage across all Operating Technology vendor platforms
- Integrated IT-OT-IOT management
- Comprehensive solution for NIST CSF, CIS CSC 20 and other standards
- Software-based Agent & Agentless architecture deploys in minutes
- Detailed vulnerability assessments across all hardware, software & configuration settings
- Enterprise reporting across geographically distributed locations, including remote, low bandwidth
- Rapid, RestAPI integrates with current tools

**BENEFITS**

- More efficient, integrated IT-OT solution
- Lower cost, faster deployment, and greater coverage than alternative OT options
- No impact on network or end point performance with agent/agentless architecture
- OT-specific vulnerability management: from assessment - to remediation in one tool
- Faster time to resolution with a single database and console for incident response across all end point and network information
- Faster time to remediation by integrating actions and detection in same toolset
- Proven safe for all OT environments
- Easy-to-use for operations personnel with little additional training required