Company Background

- **Industrial Defender** is a Global Cyber Security company focused on Protecting Critical Control Systems that are vital to a Nation’s Economy
  - Main Headquarter USA, Foxboro, MA
- 16-years of real-time process control/SCADA industry experience
- 4 years experience in Cyber Security specifically for Process Control Systems
- We understand what are the priorities and risks when securing Control Systems:
  - Business Systems: Confidentiality -> Integrity -> Availability (CIA)
  - Control Systems: Availability -> Integrity -> Confidentiality (AIC)
- The only company with complete “Risk Prevention Life-cycle” Solution:
  - Security Assessment -> Solution Design & Implementation -> Support & Life Cycle Maintenance
  - Industrial Defender Solution is DCS/SCADA supplier neutral
INDUSTRIAL DEFENDER - CYBER SECURITY PROTECTION

Risk Assessment
Professional Services
- Regulatory Compliance Audits
- Network Architecture
- Security Assessments
- Penetration Testing
- Red Team Testing
- Disaster Recovery
- Cyber Forensics
- Security Training
- Application Engineering
- Custom Software Engineering

Risk Mitigation
Defense In-Depth Technology Suite
- Industrial Defender SEM
- Industrial Defender Guard
- Industrial Defender NIDS
- Industrial Defender HIDS
- Industrial Defender EGP
- Industrial Defender RTAP

Risk Management
Co-Managed Security Services
- Security Monitoring
- Performance Monitoring
- Firewall Co-Management
- UTM Co-Management
- NIDS Management
- HIDS Management
- Security Device Deployments

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Industrial Defender Security Consulting Approach

Defense-in-Depth Approach
> Building Security into each SCADA System Component

1. Perimeter Security
   > Digital or Physically Isolated
   > Logical Access Controls
   > Firewall Rules (map out open ports)

2. Remote and 3rd Party Access
   > Document all remote access points
   > War-dial for modems
   > Document VPN or other Remote Access

3. Network Architecture
   > Discover all network devices & hosts
   > Conduct Protocol / Traffic Analysis
   > Conduct Wireless Audit
   > Analyze switch/writer configurations

4. Host OS & Removable Devices
   > Check OS for vulnerabilities
   > OS Patch Management
   > Prevent USB or Removable Devices from use inside Control Room
   > Restrict foreign laptops from connecting

5. SCADA Applications
   > Monitor network for clear text transfer
   > Ensure use of individual accounts
   > Test for access to desktop

6. Communications to Field Devices
   > Wired vs. Wireless Communications
   > Ethernet vs. Serial Communications
   > Capture Traffic on Ethernet connections

7. Local Field Controllers
   > Ethernet vs. Serial connected devices
   > Test Ethernet devices in lab for vulnerabilities
   > Remove default vendor passwords
INDUSTRIAL DEFENDER - CYBER SECURITY PROTECTION

Risk Assessment
- Professional Services

Risk Mitigation
- Defense In-Depth Technology Suite

Risk Management
- Co-Managed Security Services

INDUSTRIAL DEFENDER® Consulting Services
- Regulatory Compliance Audits
- Network Architecture
- Security Assessments
- Penetration Testing
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INDUSTRIAL DEFENDER® Technology Suite
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INDUSTRIAL DEFENDER® Co-Managed Security Services
- Security Monitoring
- Performance Monitoring
- Firewall Co-Management
- UTM Co-Management
- NIDS Management
- HIDS Management
- Security Device Deployments
Multiple Security Layers

- Perimeter Protection
- Subsystem Protection
- Control Network Monitoring
- Host Monitoring
- Control Application Monitoring

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Control System Availability

- Reliability
- Security
- Maintainability

Source: ANSI/ISA–99.00.01–2007
Industrial Defender Complete Solution

- MONITORING, REPORTING, DATA GATHERING AND DATA ARCHIVING FROM EVERY SECURITY SYSTEM COMPONENT
- Industrial Defender Console
- Industrial Defender Guard
- Corporate LAN
- Router/Firewall
- PERIMETER PROTECTION
- Firewall
- Internet
- Industrial Defender NIDS
- DCS/SCADA
- Historian
- Test/QA
- Remote HMI
- EWS
- Other Systems
- Host Security and Performance Monitoring

• Security Audit
• System Design
• Installation
• Commissioning
• Life Cycle Support

CONTROL NETWORK SECURITY AND PERFORMANCE MONITORING

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