

Lawrence Kravets

## Overview

#### What are we covering?

- Introduction and bio
- History
- State of Cybersecurity for SCADA
- Q&A





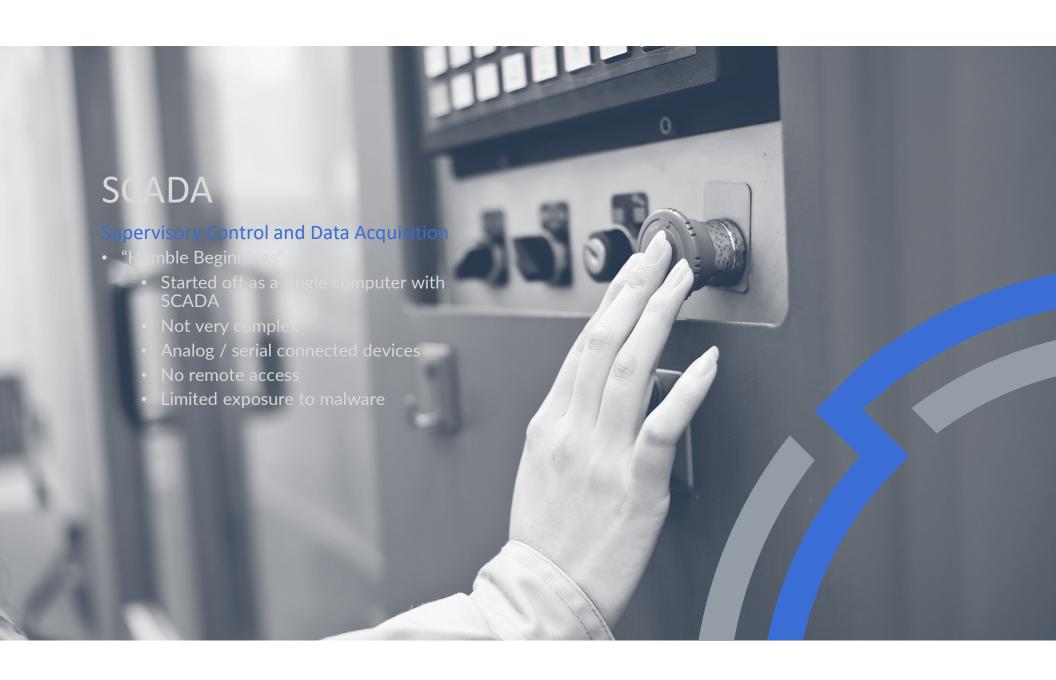
Lawrence Kravets

IT Director

#### My story:

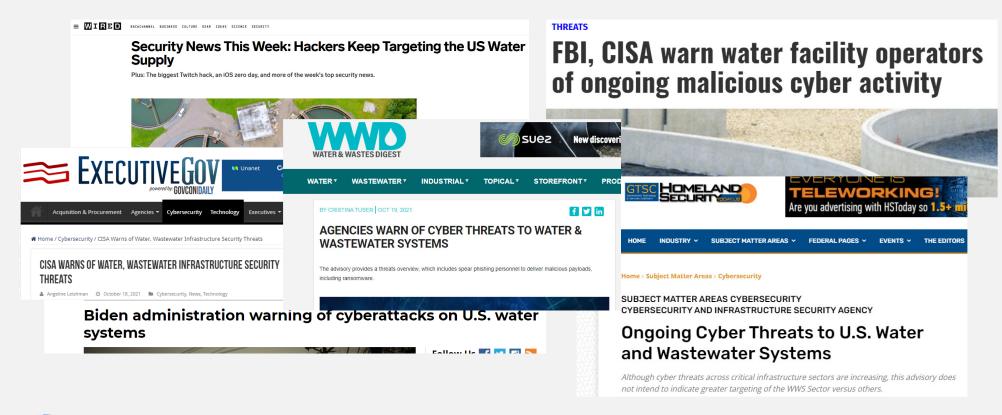
- University of Illinois at Chicago, 94
- Certified Information Systems Security Professional (CISSP)
  - Global Industrial Cyber Security Professional (GICSP)
    - 25+ years in Information Technology
    - 12 years in IT / OT @ Concentric Integration





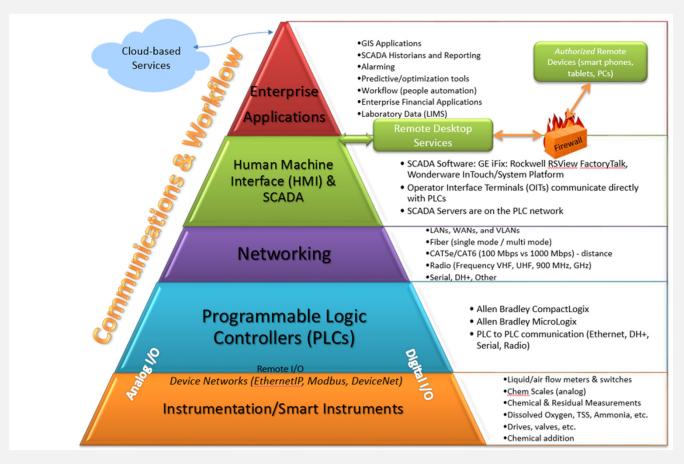


### SCADA Now - In the news media...

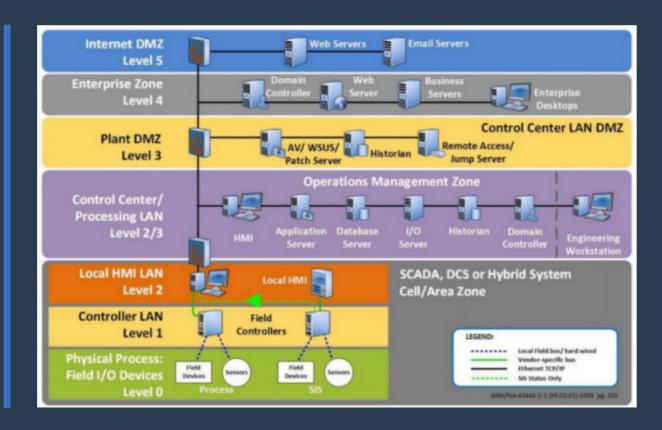




### What makes up a SCADA System?







Purdue Model ICS – how to defend SCADA



### Now what?

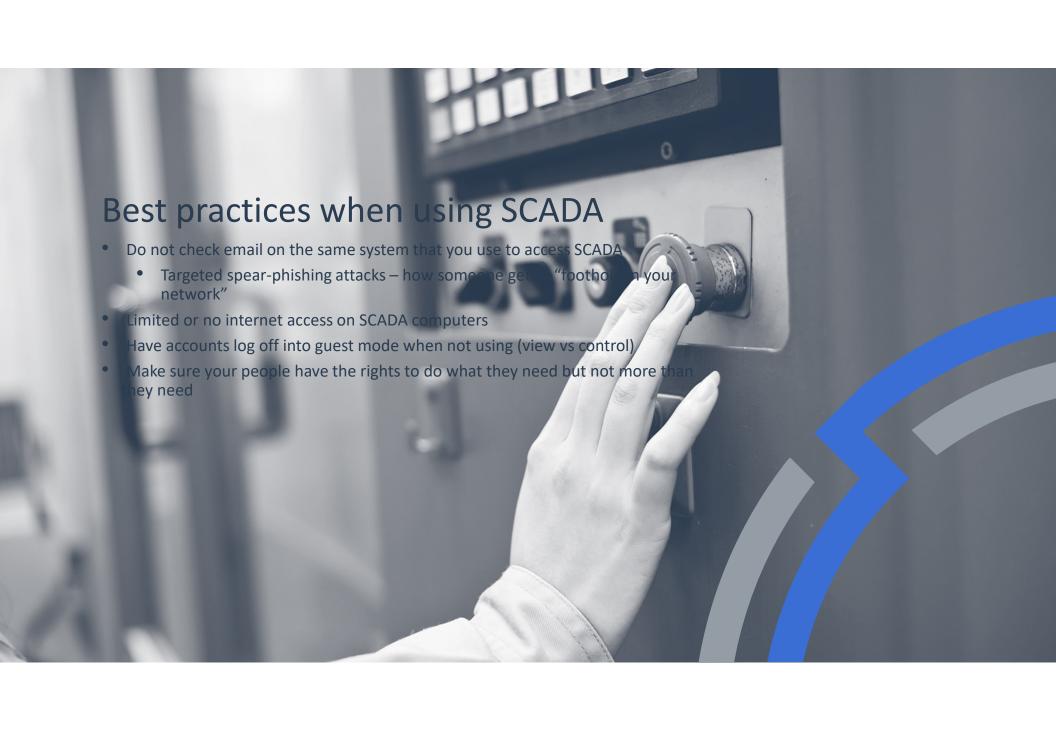
- It may seem very overwhelming
- Find help, your IT department / Contractor / SCADA Integrator
  - Even Homeland Security
- Start making lists maybe performing SCADA master plan
- Having documentation is key
  - Network diagrams
  - Commented PLC code
- It's best when its not last minute or an emergency











# Advanced topics

- Virtualization
- Private cellular networks
- Unidirectional gateways
- PLC modes run vs remote modes
- Disaster recovery and business continuity (plan for issues and test)
  - Incident response planning
- Penetration testing (validate your security controls)





## Advanced topics

- Port security on network devices
  - Lock it until it's needed
- Intrusion detection systems
  - Detect abnormal traffic
- Cameras
  - Physical security
- Monitoring service
  - Have a service actively monitor your network
- Individual usernames and passwords
- Password management
  - Passwordless?





# Q&A

#### Questions and answers

• What's next?





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