



QUALYS SECURITY CONFERENCE 2020

# Industry Control Systems Making ICS/OT a Part of Overall Vulnerability Management Program

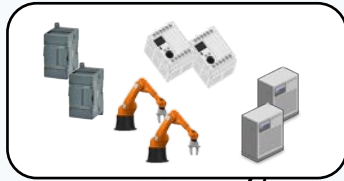
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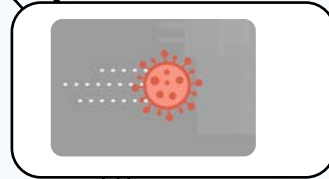
# Industrial Control Systems

Are becoming internet-aware

1. ICS SYSTEMS



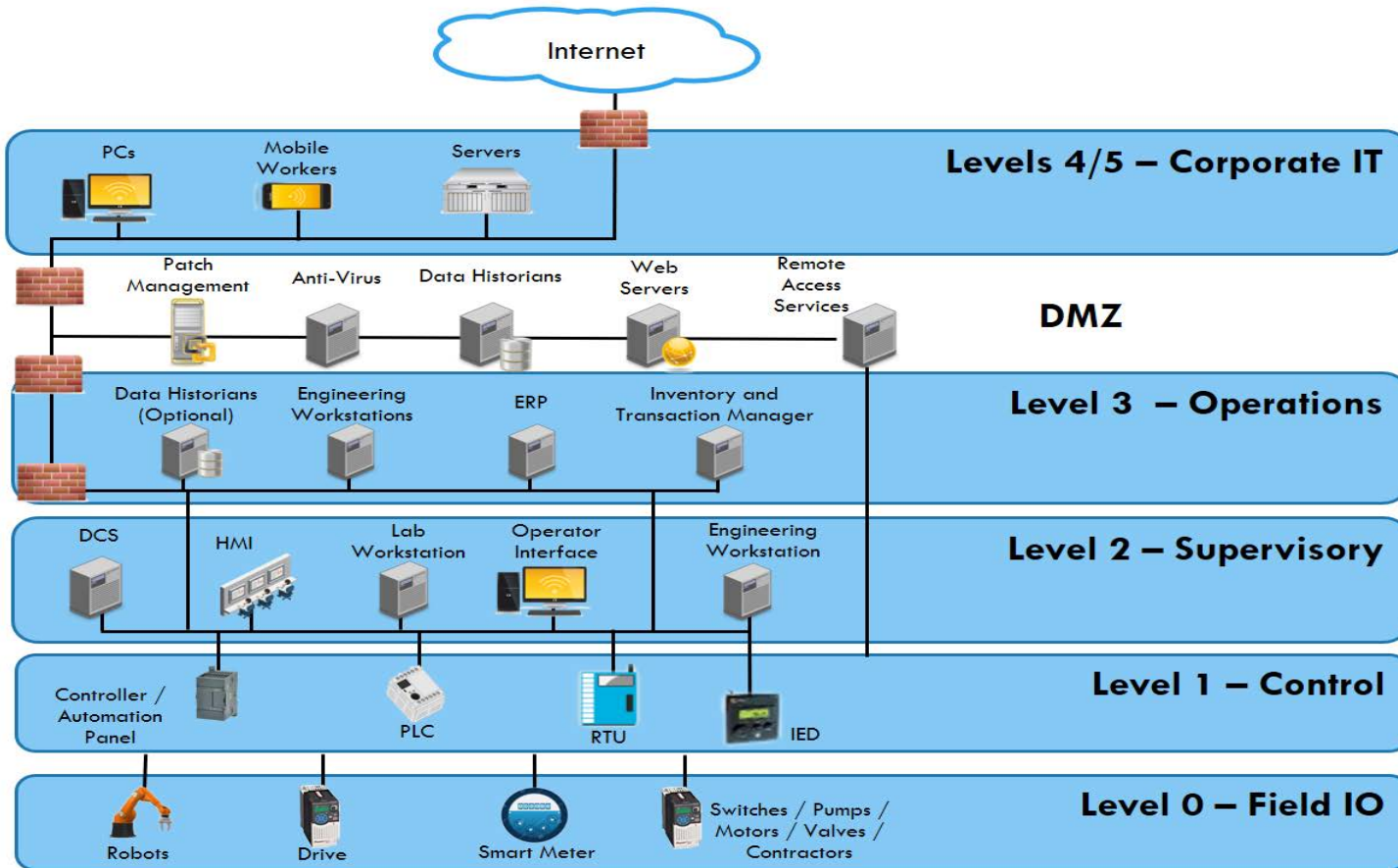
2. ARE GETTING TARGETED



3. ATTACKS CAN BE PREVENTED



# Typical Industrial Control Networks



# Qualys Industrial Control Security v1.0

## Use cases



### Visibility

- Inventory
- Network Topology



### Vulnerability Management

## Technology



### Passive Sensor

- ✓ Mirror Port
- ✓ 100% Passive



### Qualys Scanner

- ✓ Safe Active Probes
- ✓ ICS Scan Types
- ✓ Granular Controls



### Cloud Agent

- ✓ SCADA Servers / ERP Systems / HMI Servers
- ✓ All Industrial PCs



### Vulnerability Signatures





Demo

# High Level Roadmap

Design Partnership  
Q1 '20

V 1.0 Beta

ICS V 1.0

## v1.0 Protocols...

### ➤ Most Prevalent

- S7 Comm / Plus
- Profinet
- Ethernet IP
- BACnet
- Modbus TCP
- OPC Suite
- DNP3
- MSS / GOOSE
- IEC 104
- CC Link IE
- MQTT
- Omron Fins
- EtherCAT
- Nigara Fox
- Ethernet Powerlink

### ➤ Design Partnership

- *MelsecNet*
- *PCCC*
- ...

### ➤ IT Protocols

- CDP
- LLDP
- TFTP / FTP
- HTTP / HTTPS
- Telnet
- SMB/CIFS

## v1.0 Major Vendors...

### ➤ Most Prevalent

- Siemens
- Rockwell Automation
- Schneider Electric
- ABB
- GE
- Kuka
- Johnson Control

### ➤ Design Partnership

- *Mitsubishi Electric*
- ...

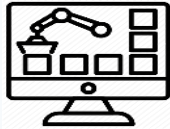
# Qualys Industrial Control Security Roadmap



**Compliance**



**Threat Detection**



**Process Integrity**



**Zones & Conduits Access Controls**



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# Thank You

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