

24. dubna 2024

Seyfor

If you want something to digitize,

Just sey it!

Fortinet Security Fabric

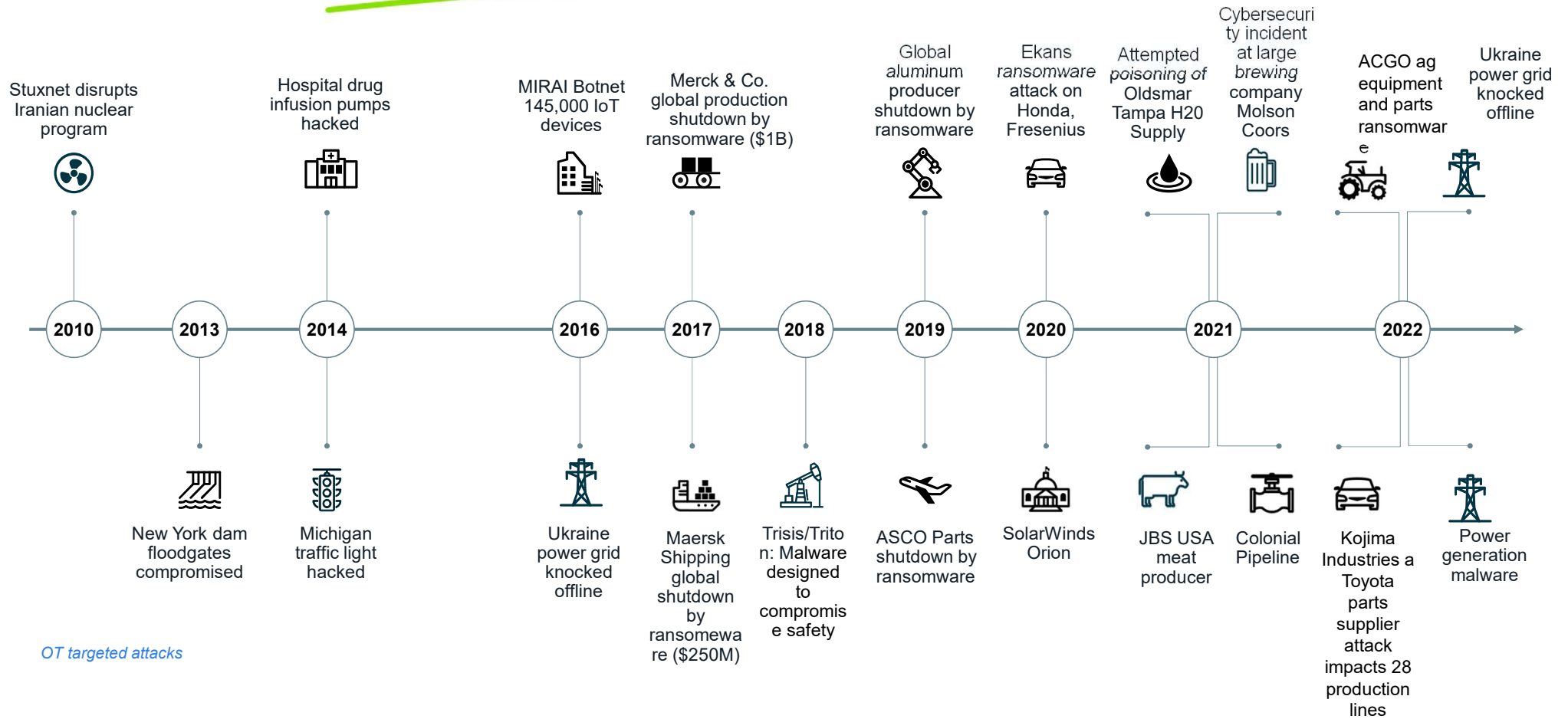
Komplexní ochrana OT sítí



Jan Nguyen, Cyber Security Consultant

2024

Útoky na OT infrastrukturu



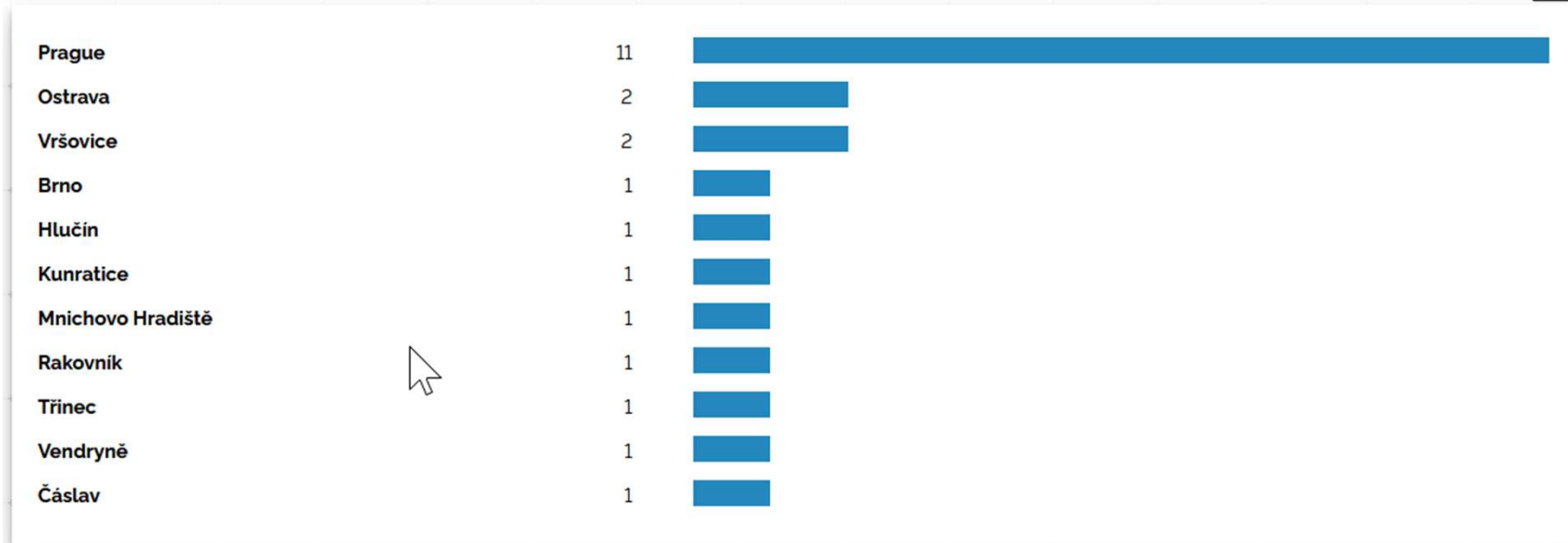
Shodan.io

simatic country:"CZ"

city



// TOTAL: 23



Shodan.io

TOTAL RESULTS

11

TOP PORTS

102	7
161	4


TOP ORGANIZATIONS

	3
	2
	2
	1
	1

[More...](#)

 View Report  View on Map


Product Spotlight: Free, Fast IP Lookups for Open Ports and Vulnerabilities using [InternetDB](#)





 Czechia, Prague



Copyright: Original Siemens Equipment
PLC name: **SIMATIC 300(1)**
Module type: CPU 315-2 PN/DP
Unknown (129): Boot Loader A
Module: 6ES7 315-2EH14-0AB0 v.0.3
Basic Firmware: v.3.2.3
Module name: CPU 315-2PN/DP
Serial number of module: S C-B5TK54402011
Plant identification:
Basic Hardware...



 Czechia, Prague



Copyright: Original Siemens Equipment
PLC name: **SIMATIC 300(1)**
Module type: CPU 314C-2 PN/DP
Unknown (129): Boot Loader A
Module: 6ES7 314-6EH04-0AB0 v.0.2
Basic Firmware: v.3.3.6
Module name: CPU 314C-2 PN/DP
Serial number of module: S C-C6V833152012
Plant identification:
Basic Hardw...



 Czechia, Prague



Copyright: Original Siemens Equipment
PLC name: **SIMATIC 300(1)**
Module type: CPU 315-2 PN/DP
Unknown (129): Boot Loader A
Module: 6ES7 315-2EH13-0AB0 v.0.4
Basic Firmware: v.2.6.7
Module name: CPU 315-2 PN/DP
Serial number of module: S C-WNUC89052008
Plant identification:
Basic Hardwar...

Fortinet Security Fabric

Široký záběr

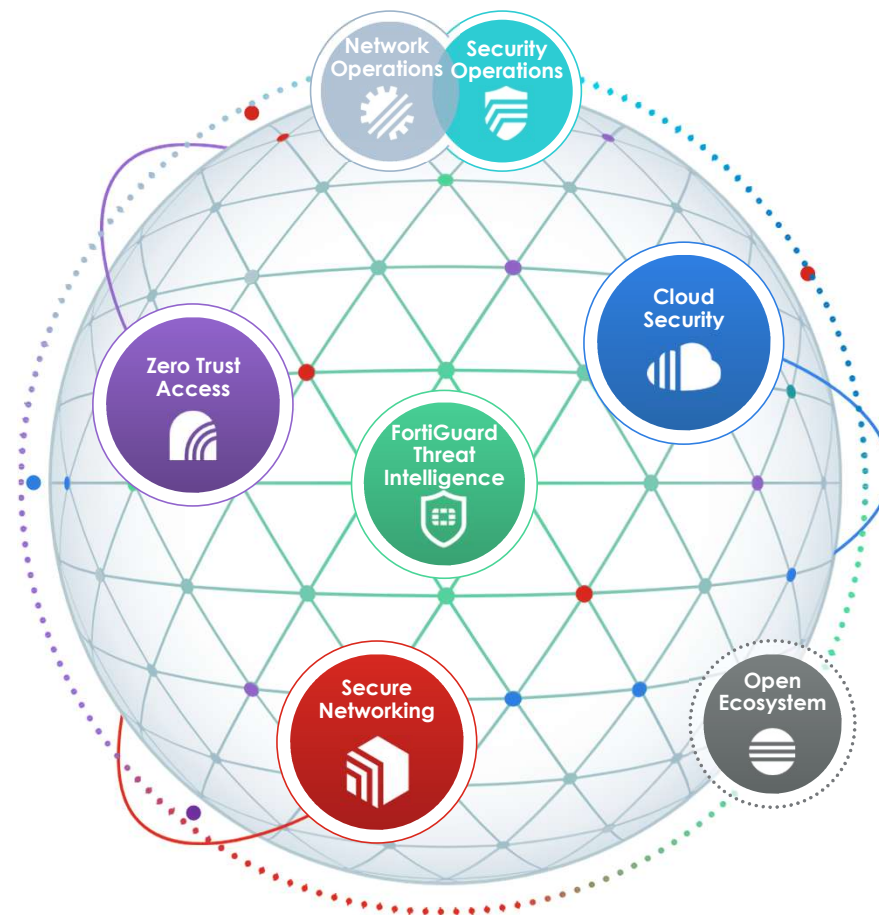
- Vhled a ochrana provozu od uživatele, přístupovou vrstvou, NGFW až po samotnou aplikaci či cloud

Integrace

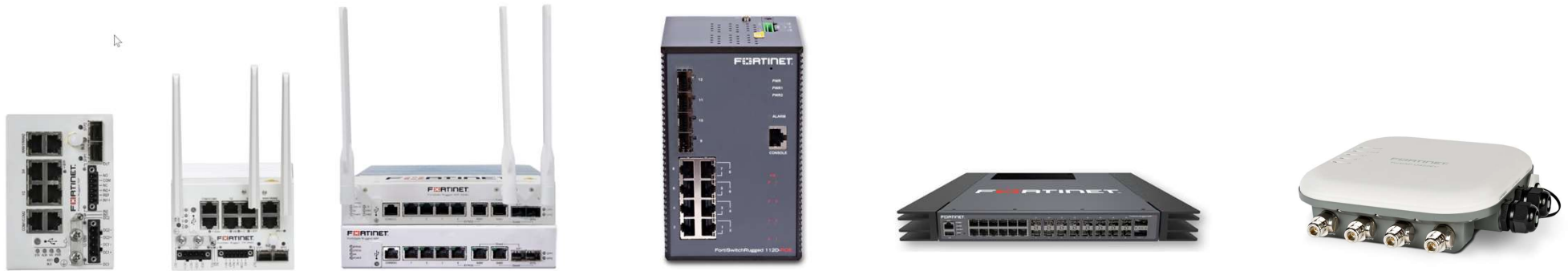
- Možnost propojení s řadou produktů od společnosti Fortinet či jiných výrobců

Automatizace

- Zrychluje odezvu od detekce bezpečnostního incidentu po jeho mitigaci
- Využívá prvky umělé inteligence (AI) a strojového učení (ML)

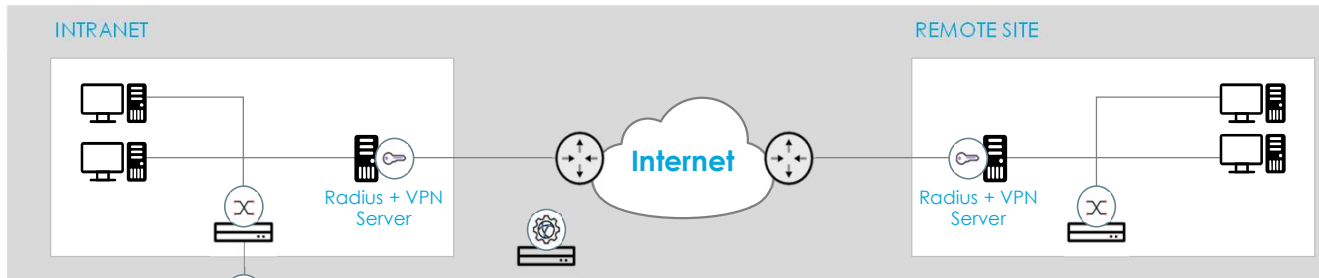


Fortinet Rugged Solution for ICS/OT

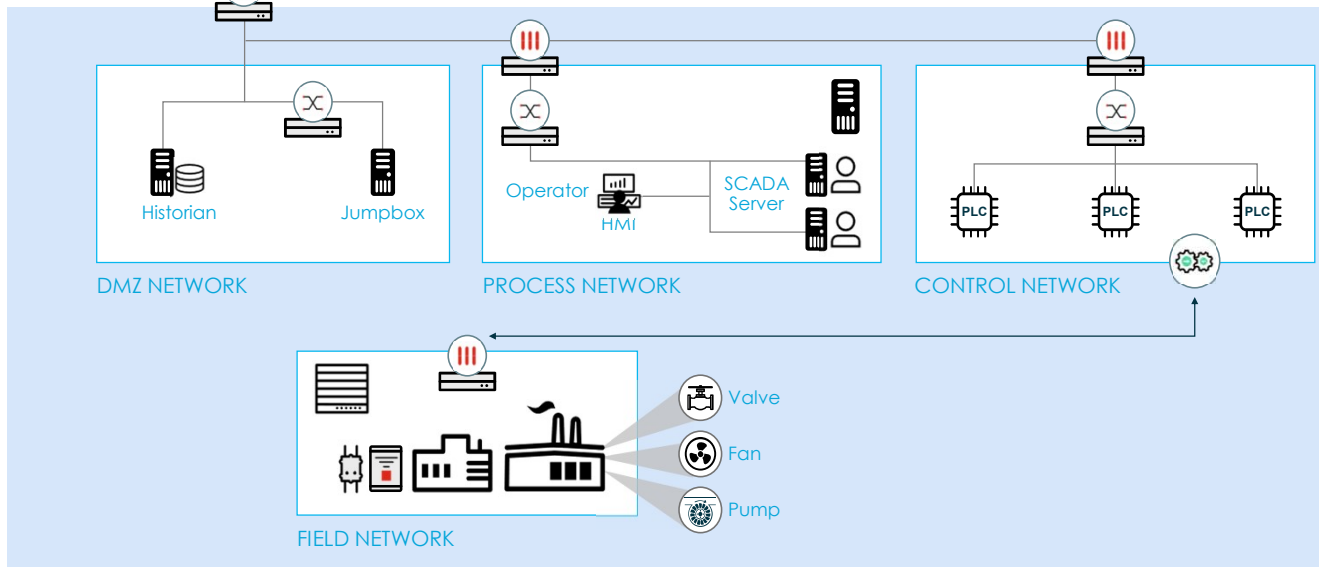


Fortinet's Security Fabric Protects OT&IT

Information
Technology
(IT)

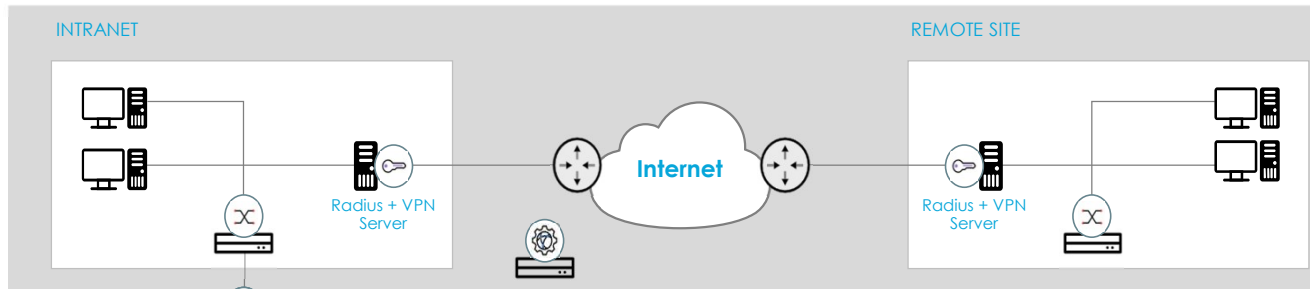


Operational
Technology
(OT)

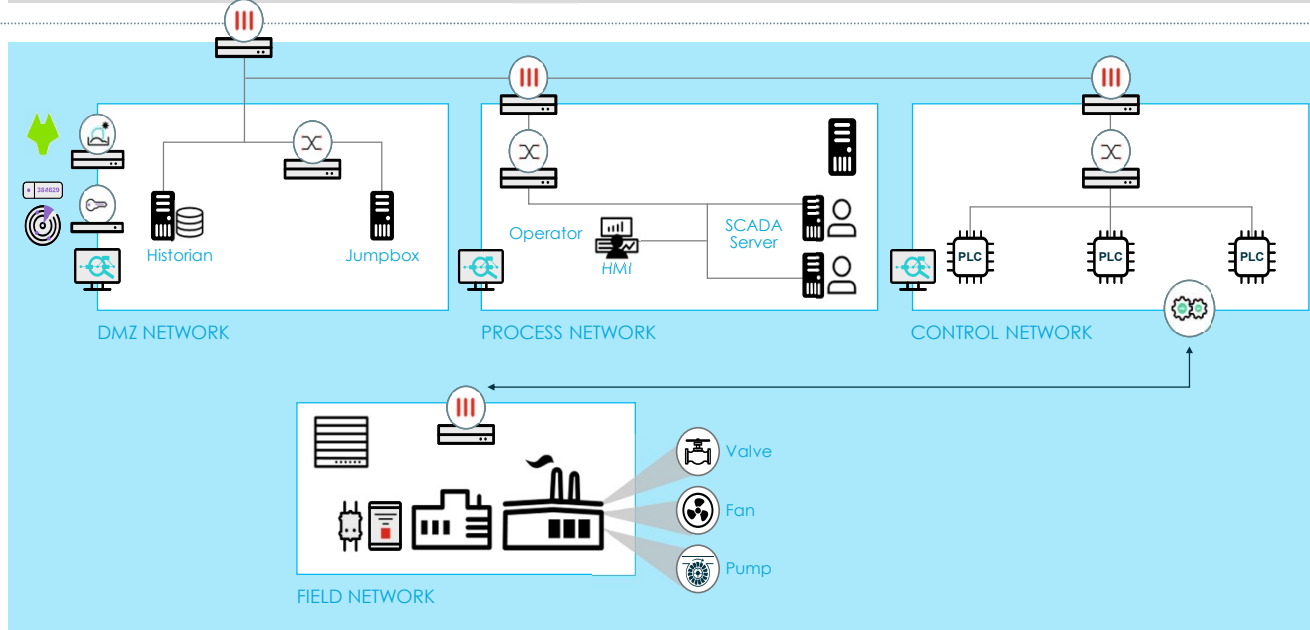


Addressing Critical Use Cases Integrating OT & IT

Information Technology (IT)

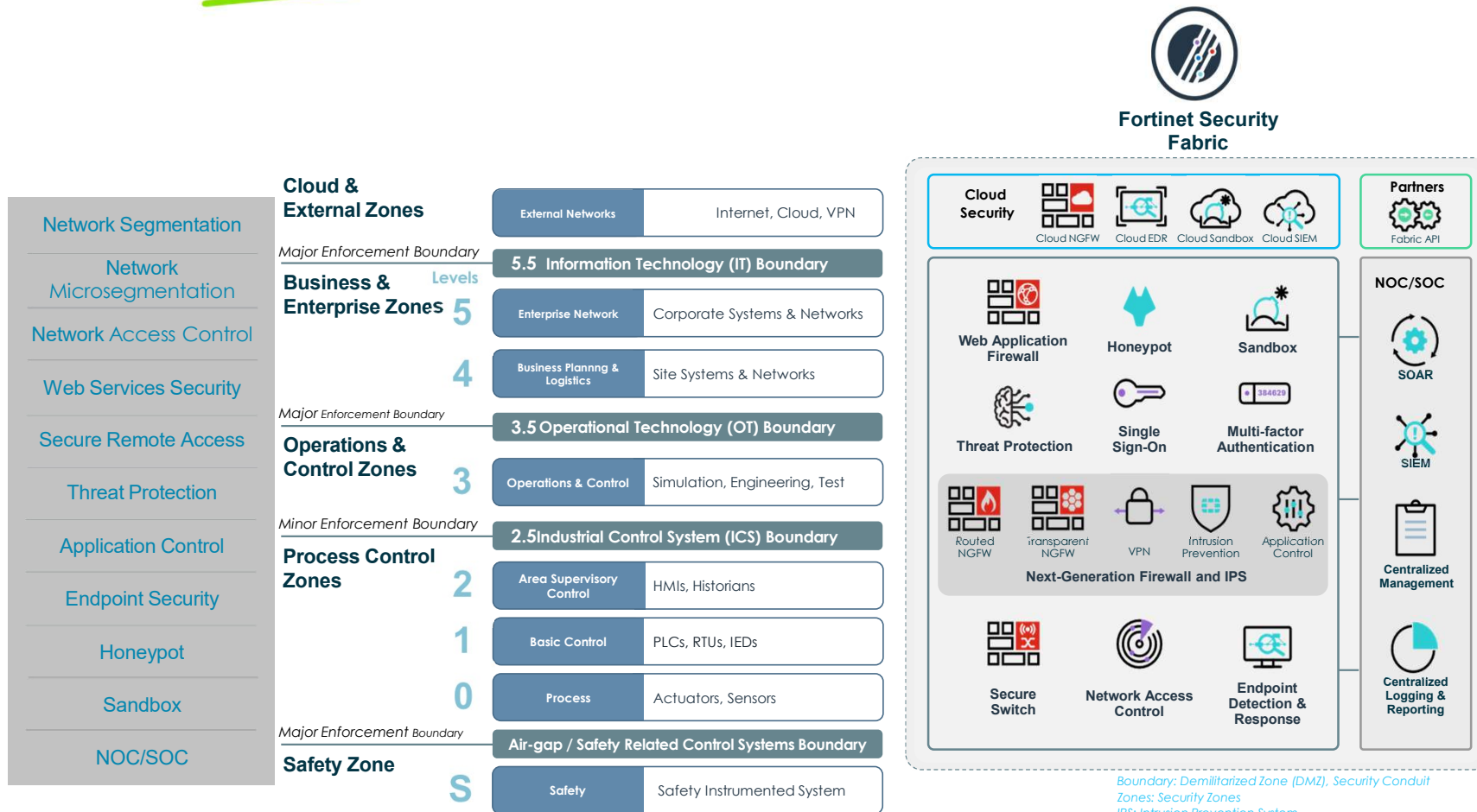


Operational Technology (OT)



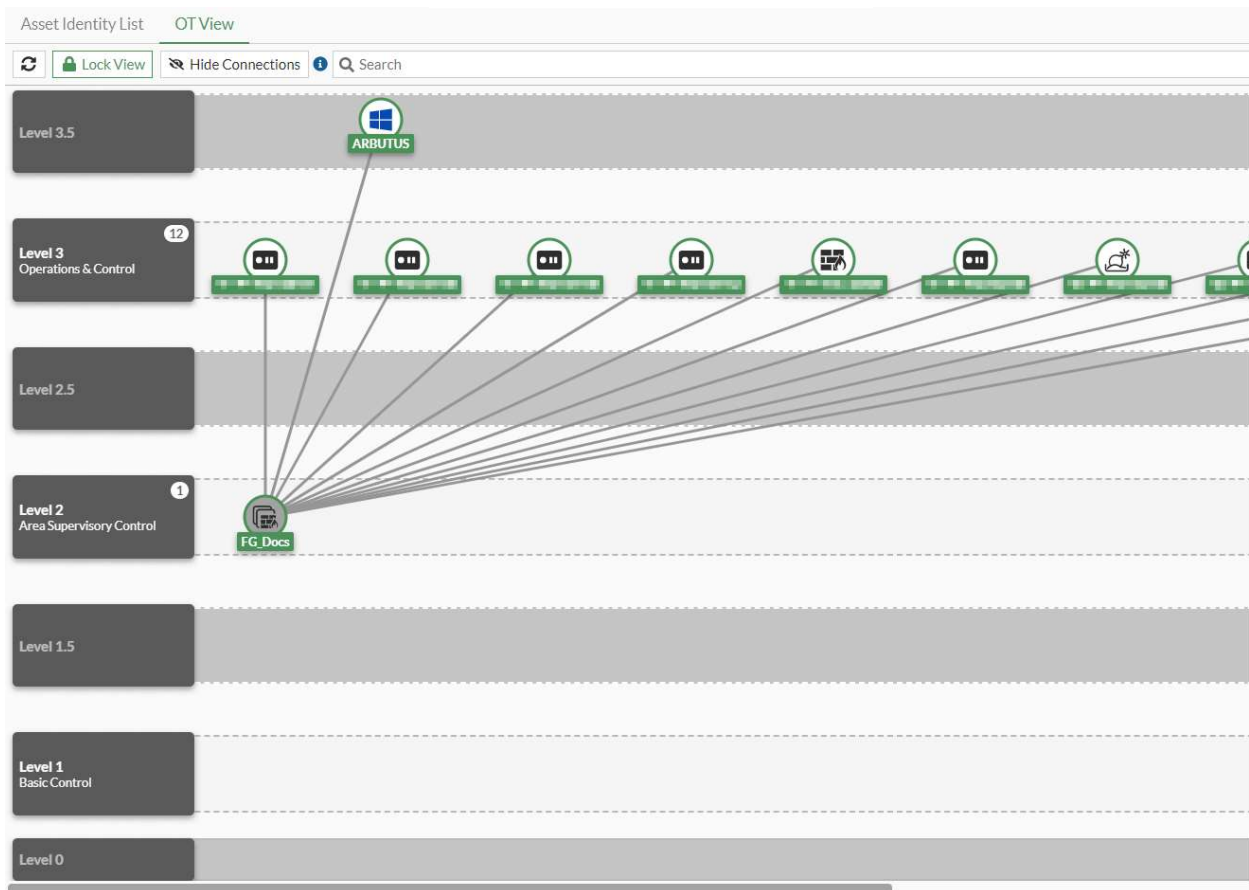
- Zones and Conduits
- Secure Remote Connectivity
- Deep OT Visibility
- Role-based Access Control
- Securing Critical End Point
- Centralize Security Management
- Advanced Persistent Threat

Securing Operational Technology



Boundary: Demilitarized Zone (DMZ), Security Conduit
 Zones: Security Zones
 IPS: Intrusion Prevention System
 SIEM: Security Information and Event Management
 SOAR: Security Orchestration, Automation and Response

FortiGate



FortiNAC

Healthcare and IoMT

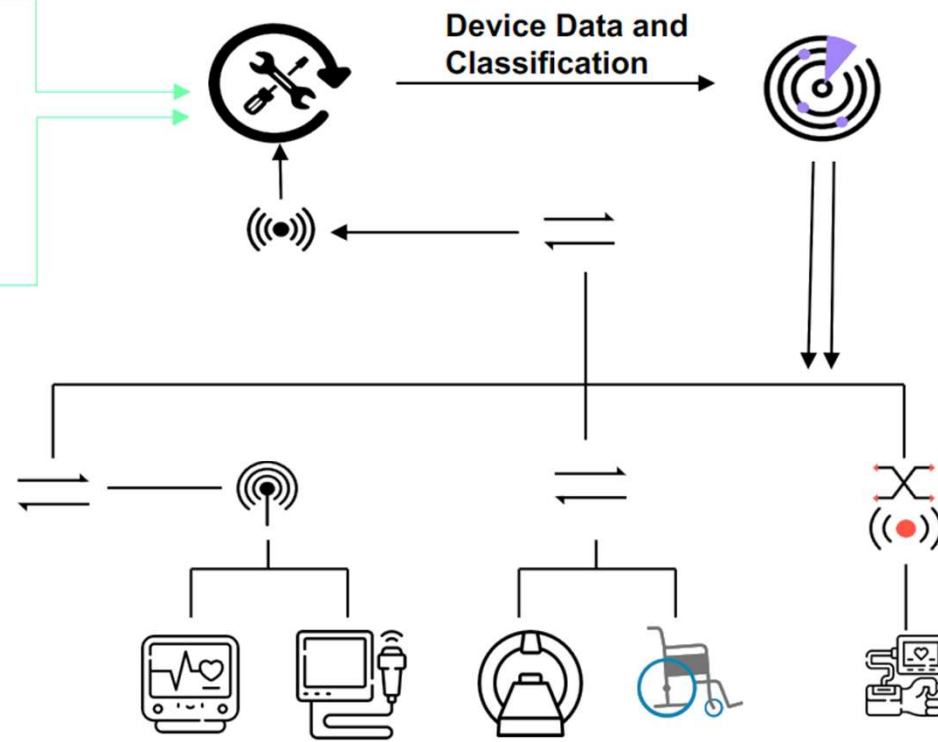


MEDIGATE
asimily
Cynerio
CyberMDX
A FORESCOUT COMPANY

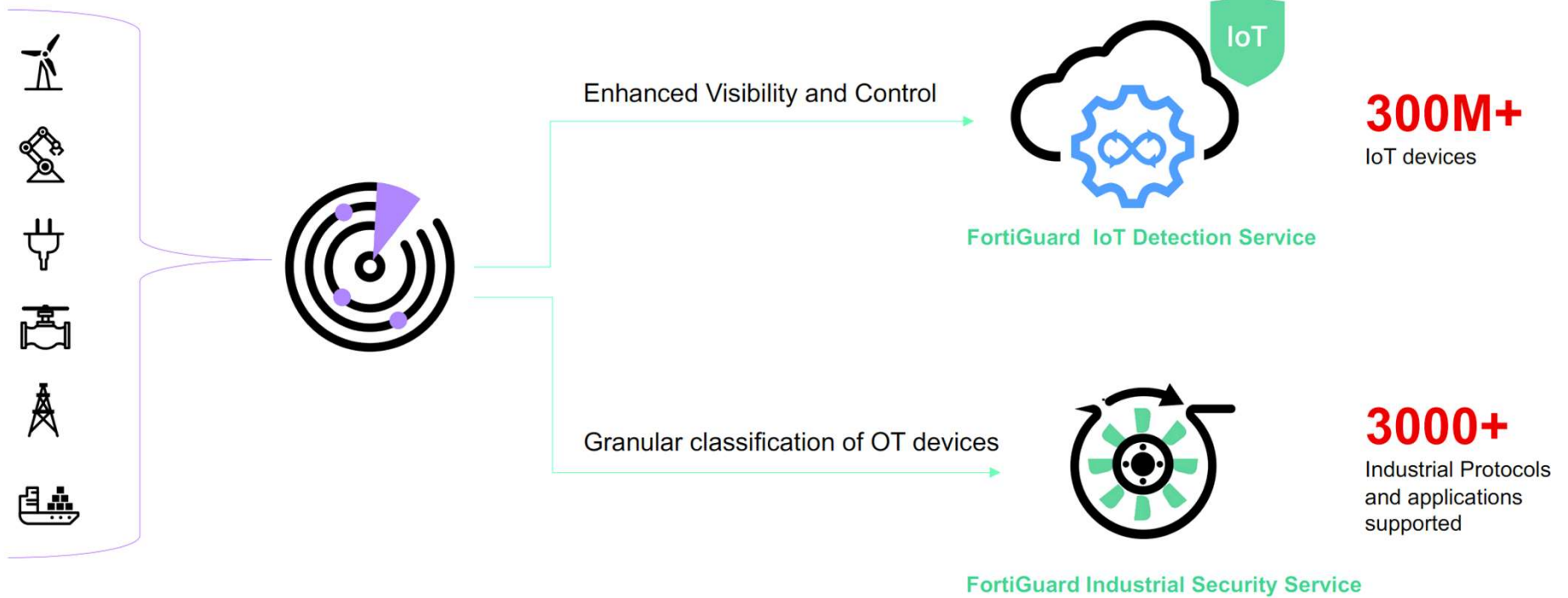
IoT/OT



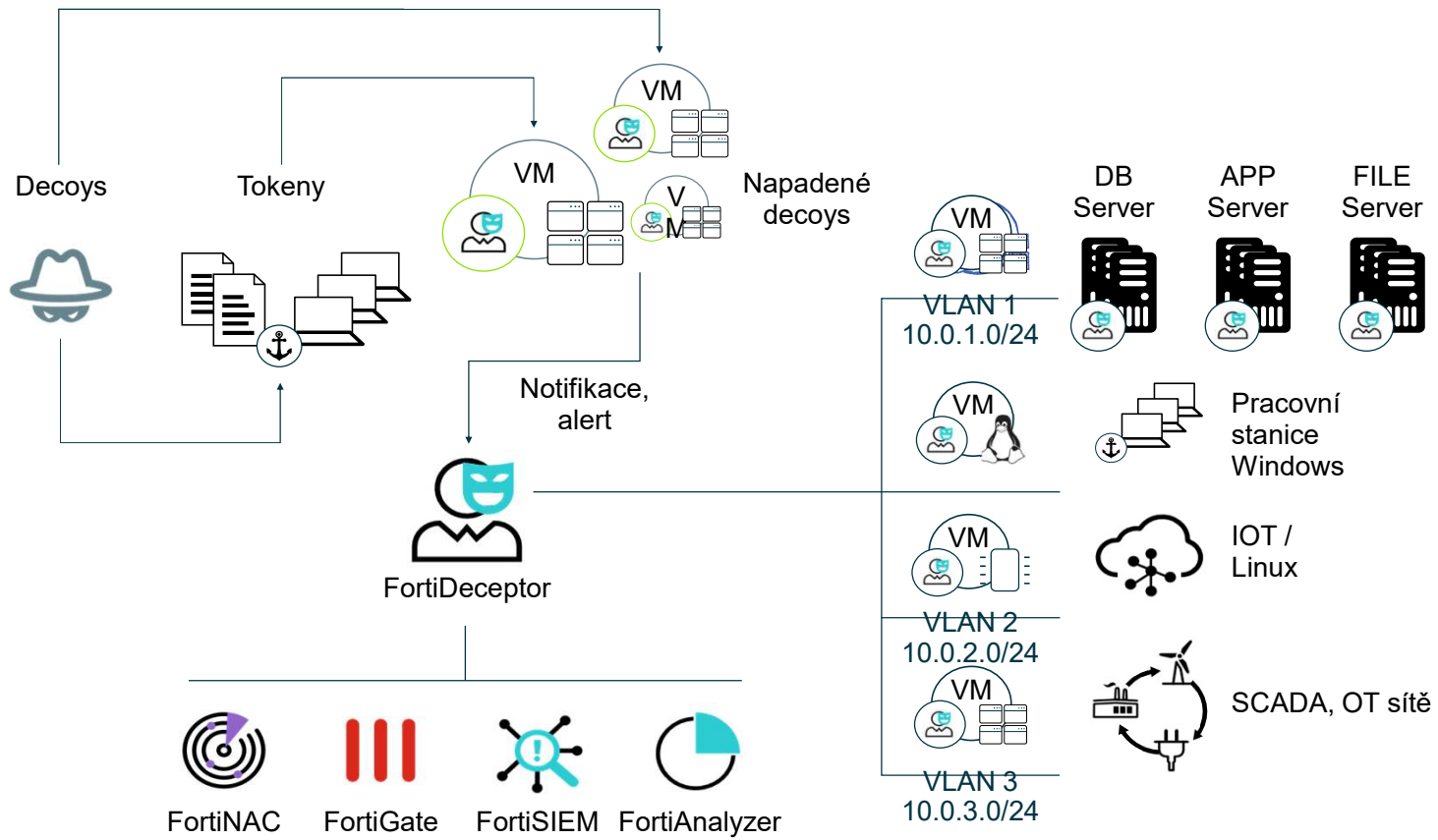
CLAROTY
NOZOMI NETWORKS
DRAGOS
ordr



FortiNAC



FortiDeceptor



FortiDeceptor

Local Windows Decoys

- Windows 7
- Windows 10

Custom Windows Decoys

- Windows 7
- Windows 10
- Windows Server 2016
- Windows Server 2019

Windows Lure / Token

- SMB
- RDP
- TCP Port Listener
- SQL (MS-Server)
- Cache Credentials
- Fake Network Connection
- SQL ODBC
- SAP Connector
- FTP
- HoneyDocs (Office & PDF & Excel)

VPN Decoys

- FortiOS

VPN Lures

- SSLVPN

Linux Decoy

- Ubuntu 16.0.4
- Ubuntu 18.0.4
- CentOS
- Outbreak Alerts

Linux Lure / Token

- ESXi
- ELK
- MySQL
- Tomcat

Cloud Decoys

- AWS
- AZURE
- GCP

IoT Decoys

- Cisco Router
- IP Camera
- Printers (HP, Lexmark, Brother)
- UPS

VoIP Decoys

- SIP
- XMPP
- MQTT

Application Decoys

- SAP
- ERP
- POS
- GIT

Medical Decoys

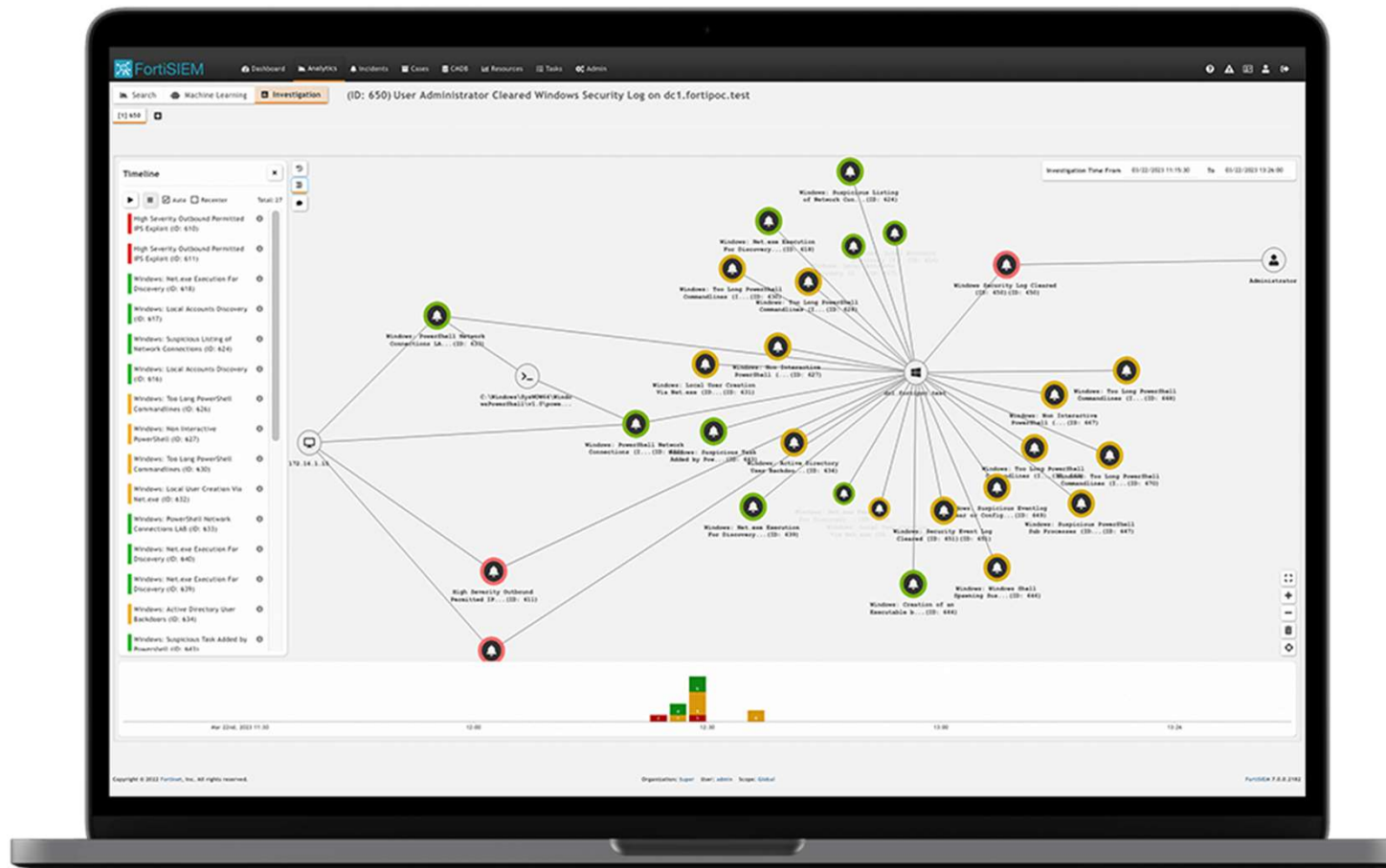
- PACS
- DICOM
- Infusion Pump

SCADA Decoys

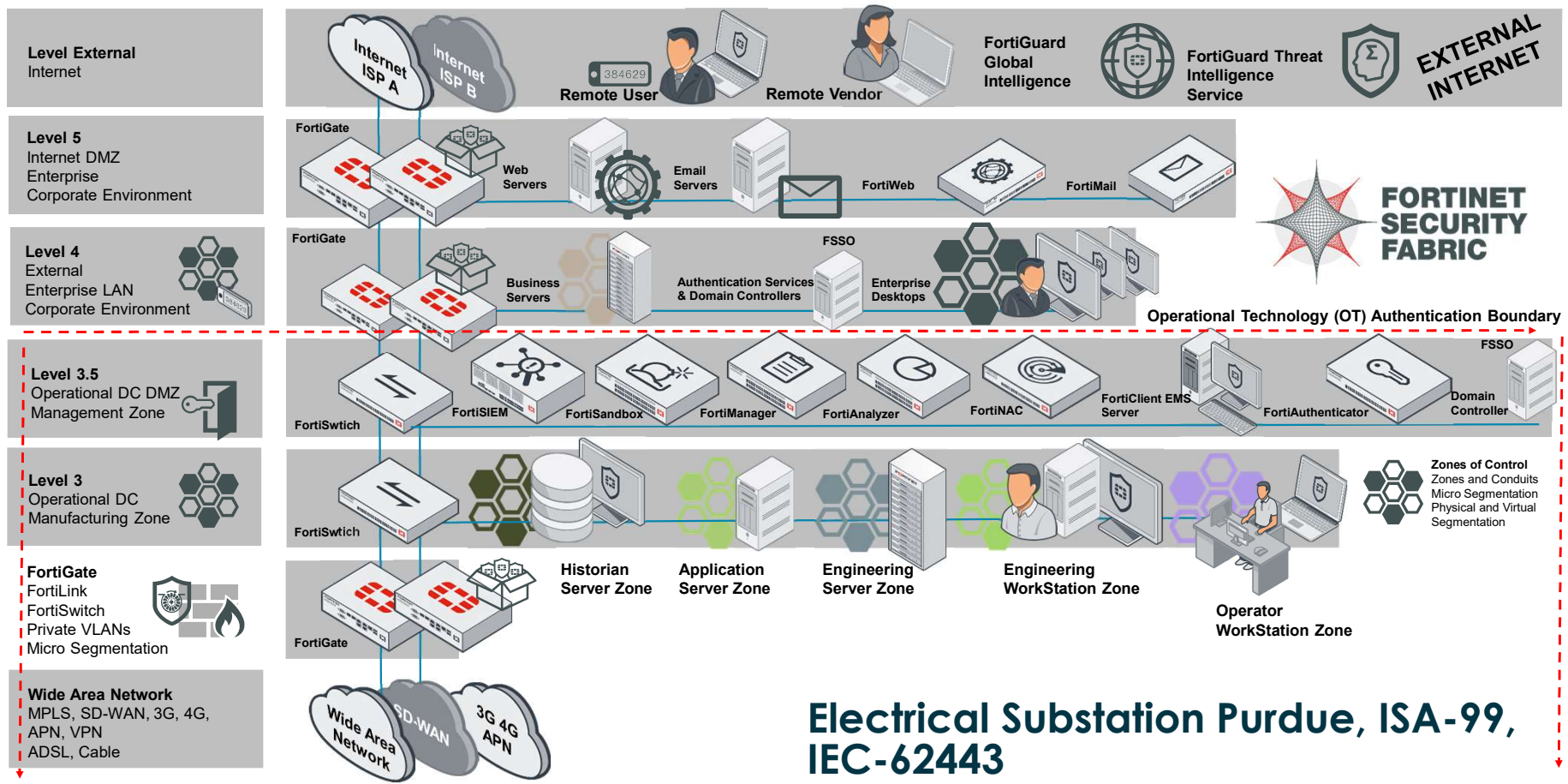
- HTTP
- FTP
- TFTP
- MODBUS
- S7COMM (Siemens)
- BACNET
- IPMI
- TRICONEX (Schneider)
- GUARDIAN-AST
- IEC 60870-5-104
- EtherNet/IP (Rockwell)
- DNP3
- SRTP (GE IP Series 90-30)
- MOXA (NPORT)
- SCADABR (MGMT)



FortiSIEM a FortiSOAR



Applying Fortinet's Reference Architecture to Purdue



OT Security Solution Hub

FORTINET



DOCUMENTS LIBRARY

Product Pillars

Best Practices

Hardware Guides

Product A-Z



FEATURED

FortiOS 7.4 Beta3 has been released! Go to FNDN > Beta > FortiOS 7.4 to sign up and get the firmware.



FORTINET DOCUMENTS LIBRARY

Product Quick Links

FortiGate	FortiManager	FortiAnalyzer	FortiSwitch	FortiAP	FortiClient

Solution Hubs

Secure SD-WAN	Zero Trust Network Access	Secure Access	Public/Private Cloud	FortiCloud	Operational Technology

Fortinet
Fortinet.com
Fortinet Blog
Customer & Technical Support
Fortinet Video Library
Training

FortiGuard
FortiGuard
Fortinet PSIRT Advisories
FortiGuard Outbreak Alert

Communities
Knowledge Base
FortiAnswers
Fortinet Developer Network

FORTINET

LEGAL | PRIVACY

Thank you
for your attention.

Seyfor