FHRTINET

Operational Technology Fortinet Tanum

Q2 2025

Fortinet Rugged Product Portfolio

FortiGate Rugged, FortiSwitch Rugged, FortiAP Rugged



Ruggedized Design Fan-less and use of robust components ensure reliable operation in harsh industrial environments.



Consolidated Security Architecture FortiGate running FortiOS consolidated security offers better protection and lower cost of ownership than multiple point products.

A DESC WY

and VPN gateway

SoC4-powered, security

FGR-60F





Ease of Management

Allows rapid provision and deployment, monitoring of device and threat status while providing actionable reports.

FortiSwitch Rugged, FortiAP Outdoor Series



FGR-70F 3G/4G SoC4-powered, security and VPN gateway with compact, fanless design and embedded 3G/4G/LTE



FGR-70F SoC4-powered, security and VPN gateway with compact, fanless design



FGR-60F 3G/4G SoC-4-powered, security and VPN gateway with embedded 3G/4G/LTE

FortiGate Features

Antivirus

DNS Filter

Web Filtering

DLP

Wi-Fi

FortiGate Rugged Series

- Security (IPS, FW, OT traffic monitor)
- Encryption (GRE, VXLAN, IPSEC)
- Connectivity (Proxy, VLANs, IPv6.)
- Advance features (SD-WAN)
- Central authentication (LDAP, RADIUS, etc.)

- IPSEC VPN
 - SSL VPN Client/Clientless
 - SSL Inspection
 - Packet capture triggered by IPS
 - Virtual Domains (VDOM)
 - Transparent or Proxy (Man in the middle)



FSR-112D-POE and FSR-424F Fan-less passive cooling with DINrail or wall-mountable. Power over Ethernet capable including PoE+. Redundant power input terminals. Mean time between failure greater than 25 years.





FortiAP Outdoor 234F Internal Antennas IP67, Indoor/Outdoor Use PoE Powered Wall- and pole-mountable Wi-Fi Alliance Certified

FortiAP Rugged 432FR External Antennas C1D2/IP67, Indoor/Outdoor Use PoE Powered Wall- and pole-mountable Wi-Fi Alliance Certified

Security Fabric Partner Ecosystem

Vendor types





Security Fabric Deployment for IT/OT/IIoT

Example IT, OT and IIoT Converged Infrastructure



FortiGate Rugged 70F / 70F-3G4G

Released Feb 2023



Key Differentiators Image: Secure SD-WAN Image: Specialized IPS for ICS/OT Image: Specialized IPS for ICS/OT Image: Specialized IPS for ICS/OT

Industry Compliance



Product Literature

Datasheet, Quickstart Guide

Key Benefits

Ruggedized NGFW



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comply with industrial requirements and certifications to ensure reliable operations in harsh conditions

Optimal User Experience

ASIC-based processor for highspeed NGFW/ NGIPS performance

Cost-effective

\$7

compact design with integrated networking, security, wireless, and secure SD-WAN features

Centralized Visibility

support for unified logging, reporting, and management for centralized control over security operations

FortiGate Rugged 70G-5G-DUAL

Ideal for remote locations and harsh environments

Secure Adaptive Edge

Integrated 5G, SD-WAN, ZTNA app gateway, and security into one compact appliance simplifies architecture and operations

✓ High-performance Ruggedized Design

Purpose-built ASIC for high-speed NGFW/NGIPS performance; comply with industrial requirements and certifications for reliable operations in harsh environment with dual DC power inputs

✓ Dual Active/Active 5G Connectivity

Faster deployment and mobility with dual-5G and dual-SIM modem for dual-active 5G WAN links and additional redundancy

Centralized Visibility & Security

End-to-end visibility, orchestration and security protecting assets and improving digital experience

Fortinet Advantage

Patented ASIC radically increases the speed, scale, efficiency while greatly improving user experience, reducing footprint and power requirements





6x GE RJ45 (includes 1x bypass) and 2x GE SFP

FortiSwitch Rugged (FSR) 424F-POE



FortiSwitch Rugged (FSR) 216F-POE



FortiSwitch Rugged 216F-POE

- DIN type, IP40, fan-less design
- 16x 1GbE RJ45 POE/POE+, 360W power budget
- 4x 10G SFP+
- 1x RJ45 Serial Port for Console
- 1x RJ45 Ethernet Port for Management
- 2x DC Power Inputs 12V 57V DC (Redundant)
- IEC 61850-3, IEEE 1613
- Dimensions: 180mm (H) x 116mm (W) x 170mm (D/L)

Key Differentiators



Rugged IP40 Design Resiliency for Harsh Environments Dual DC Power Inputs



Fault Detection Fault Relay and Alarm inputs



802.3bt POE 802.3bt POE support up to 240W

Hardware Security Switch



Restricts hardware security options to only authorized personnel with physical access to the device

FortiExtender Vehicle for Secure Mobility

Rugged FortiExtender with integrated Wi-Fi for Mobile Fleets



FEV	211F
Cellular	CAT-12 LTE
Top D/L Speed	600Mbps
Deployment	Vehicle/OT
Benefit	Wi-Fi, Dual-SIM Public Safety
Connection	7-36VDC
Support	North America/Global

FortiAP Rugged 432FR

FAP-432FR – Certified for ATEX environments

FortiAP 432FR: C1D2 certified based on 432F

- 802.11ax Tri-Radio 2.4 GHz + 5 GHz + scanning
- 4x4 MU-MIMO; 6 External Antennas
- Up to 1147 Mbps + 2402 Mbps
- BLE for beacons and location discovery
- IP67, -40C 60C
- PoE power

• 2.5G Ethernet + 1G Ethernet w PoE output



FortiOS Asset Identity Center – OT View

Released in FortiOS 7.2

Visualize network assets in Purdue Level based network topology and understand whether the security zones and conduits are implemented correctly and operating as intended.



Link: https://docs.fortinet.com/document/fortigate/7.2.0/new-features/498242/add-ot-asset-visibility-and-network-topology-to-asset-identity-center-page

FortiOS OT View – Asset and Network Flow Info

Partly Released

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PORTINET (24)	Level 3.5	Uver 5. Authenticatio Wifi & Switch Centre Wifi & Switch Centre System Security Fabric	ster 2 2 4 ster, solvies, jooks2eeles, (3) 2 9 1 1 1 1 1 1 1 1 1 1 1 1 1	Load Pu4 Load Pu4 Freeal Freeal Load Pu4 Load Pu4	R nucl R nucl <tr td=""> </tr>	H valachritik dottal H valachritik dottal	245343 215748 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 20048 2000	2 000000 2 000000 3 000 3 00 3 0	B for State 3.17			
PERMINET -143	Level 3.5	Uver 5. Authenticatio Wifi & Switch Centre Wifi & Switch Centre System Security Fabric	star 2 2 4 star, bid-test, poste2quite, (8) 2 4 4 4 4 4 4 4 4 4 4 4 4 4	Load IP-4 Load IP-4 Freeal Freeal Load IP-4 Load IP-4	R and? Veteon 0	H voice for this down! H voice for this down!	245343 257343 200948 300948 375948 375948 340448 312248 312248 34344 34344 34344 34344 34348 34348 34348 34348 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 343888 343888 34388634636 3456666666666666666666666666666666		# ForSide+3/F # ForSi			
PORTINET (24)	Level 3.5	Uver 5. Authenticatio Wifi & Switch Centre Wifi & Switch Centre System Security Fabric	cliver 2 2 4 4 conclude thest, upote 2 and e2 and e	Load ID-4 Load ID-4 Frend Frend Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Frend Frend Frend Load ID-6	R nucl R nucl <tr td=""> </tr>	H valatortillä dutoi H valatortillä dutoi	245518 23758 200948 31848 31848 3196748 3196748 319748 319748 319748 319748 319748 319748 319748 319748 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 344448 34448 344448 34448 3444648 344466464646646646666666666		B) ForState-137			•
PERMINET	Level 3.5	Uver 5. Authenticatio Wifi & Switch Centre Wifi & Switch Centre System Security Fabric	ster 2 2 4 ster, solvies, jooks2eeles, (3) 2 9 1 1 1 1 1 1 1 1 1 1 1 1 1	Load IP-4 Load IP-4 Freeal Freeal Load IP-4 Load IP-4	R and? Veteon 0	H voice for this down! H voice for this down!	245343 257343 200948 300948 375948 375948 340448 312248 312248 34344 34344 34344 34344 34348 34348 34348 34348 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 34388 343888 343888 34388634636 3456666666666666666666666666666666		# ForSide+3/F # ForSi			
PORTRET -043	Level 3.5	Uver 5. Authenticatio Wifi & Switch Centre Wifi & Switch Centre System Security Fabric	cliver 2 2 4 4 conclude thest, upote 2 and e2 and e	Load ID-4 Load ID-4 Frend Frend Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Frend Frend Frend Load ID-6	R and? Veteon 0	H valatortillä dutoi H valatortillä dutoi	245518 23758 200948 31848 31848 3196748 3196748 319748 319748 319748 319748 319748 319748 319748 319748 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 344448 34448 344448 34448 3444648 344466464646646646666666666		B) ForState-137			•
	Level 3.5	Uver 5. Authenticatio Wifi & Switch Centre Wifi & Switch Centre System Security Fabric	cliver 2 2 4 4 conclude thest, upote 2 and e2 and e	Load ID-4 Load ID-4 Frend Frend Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Frend Frend Frend Load ID-6	R and? Veteon 0	H valatortillä dutoi H valatortillä dutoi	245518 23758 200948 31848 31848 3196748 3196748 319748 319748 319748 319748 319748 319748 319748 319748 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 344448 34448 344448 34448 3444648 344466464646646646666666666		B) ForState-137			
PONTINET (74)	Level 3.5	Uver 5. Authenticatio Wifi & Switch Centre Wifi & Switch Centre System Security Fabric	cher 2 cher 12 cher 12d Hent, 3ohn 2uche	Load ID-4 Load ID-4 Frend Frend Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Load ID-4 Frend Frend Frend Load ID-6	R and? Veteon 0	H valatortillä dutoi H valatortillä dutoi	245518 23758 200948 31848 31848 3196748 3196748 319748 319748 319748 319748 319748 319748 319748 319748 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 32448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34448 34446666666666		B) ForState-137			•

FortiGuard OT Device Detection



43 Derices	Software OS Unkno @ Linux @ macOS @ Windows @	4		Vulnerability Level None Co Critical Co High Co Medium O	43 Devices	Status Conline	43 Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Devices Dev
C Q Search							Q Latest - Asset Identity
Device	Software OS	Address	User	FortiClient User	Vulnerabilities	Status	Endpoint Tags
d Robin Foster PC	macOS	10.1.0.10		🛐 Robin Foster	00110	Registered - Online - On-Net	ZTNAIP all_registered_clients ZTNAMAC all_registered_clients
∆ Charlie Fischer PC	Linux	10.1.0.13		Charlie Fischer	10 (2 16 (3	Registered - Online - On-Net	ZTNA IP all_registered_clients ZTNA MAC all_registered_clients ZTNA IP Corporate Linux Endpoint ZTNA MAC Corporate Linux Endpoint
	Unknown	10.100.55.102				Online	
	Unknown	10.100.55.1				Online	
a service and the service of the ser	Unknown	10.100.55.101				Online	
d Sidney Ramos PC	macOS	10.1.0.12		🗐 Sidney Ramos	000	Registered - Online - On-Net	ZTNAIP all_registered_clients ZTNAMAC all_registered_clients
Caden Wallace Laptop	macOS	10.1.0.21		🖀 Caden Wallace	00200	Registered - Online - On-Net	ZTNA IP all_registered_clients ZTNAMAC all_registered_clients
∆ Shay Nicholson Laptop	Linux	10.1.0.6		Shay Nicholson	0060	Registered - Online - On-Net	ZTNARP all_registered_clients ZTNAMAC all_registered_clients ZTNARP Corporate Linux Endpoint ZTNAMAC Corporate Linux Endpoint
i Jordan Garrison PC	macOS	10.1.0.18		🙎 Jordan Garrison	6 24 9	Registered - Online - On-Net	ZTNA IP all_registered_clients ZTNA MAC all_registered_clients
& Lee Khan PC	Linux	10.1.0.8		🛐 Lee Khan	003	Registered - Online - On-Net	ZINA.# all_registered_clients ZINA.MC all_registered_clients ZINA.# Corporate Linux Endpoint ZINA.MC Corporate Linux Endpoint 036.43

FortiOS OT Virtual Patching



FortiOS FortiLink NAC OT Auto-Quarantine

Detect OT/IoT Network	Status	Enabled Oisabled All Specify			
Assets	Description Device Patterns Category Devi	0/63 ice User EMS Tag Vulnerability			
	Switch Controller				
Query for Vulnerabilities	Assign VLAN Bounce port Assign device to d Wireless Controll Assign VLAN	vlan300 vlan300 Iynamic address ● ●	·		
		+Create New 🖋 E	dit 🗎 Delete Search		Q
		Name	Patterns	Assign	
		NAC Policies	_		
Populate Asset Identity Center	FortiLink NAC Policy		SEV Information	×≣ vlan300	

Virtual Patching Local-in Management Interface

FortiOS 7.4.x



"

Virtual patching is enabled for the local-in policy, for example following scenarios:

- FortiGate with an SSL VPN vulnerability
- FortiGate with a web GUI vulnerability
- FortiGate with both an SSL VPN and web GUI vulnerability

FortiGuard OT Security Service

OT Application Control and IPS Signatures



FortiGuard OT Security Service Coverage

Application Control Signatures – ICS/OT Applications and Protocols

Allen Bradley CSP	EtherNet/IP-CIP →	MTConnect	Schneider UMAS \rightarrow
Allen-Bradley DF-1 \rightarrow	Ewon Talk2M Access	Niagara Fox	SECS-II/GEM →
Allen-Bradley PCCC \rightarrow	Ewon Talk2M VPN	oBIX	SEL Fast Message $ ightarrow$
BACnet →	Ewon.M2web	$OCPP \rightarrow$	Siemens LOGO \rightarrow
$Beckhoff.AMS \to$	FactorySuite NMXSVC	Omron FINS \rightarrow	Siemens OCG ATCS \rightarrow
Bristol BSAP	$FL-NET \rightarrow$	$OPC AE \to$	Siemens S7 \rightarrow
$CC-Link \rightarrow$	$GE EGD \to$	OPC Common →	Siemens S7 1200 →
CN/IP CEA-852 →	$GE\ SRTP \to$	$OPC \; DA \to$	Siemens S7 Plus →
$CoAP \rightarrow$	Hart IP \rightarrow	OPC DA Automation \rightarrow	Siemens SIMATIC CAMP \rightarrow
DDSI-RTPS	IEC 60870-5-104 <u></u>	OPC HDA	Siemens.Epoc.EDM
Digi ADDP \rightarrow	IEC 60870-6 (ICCP/TASE.2) \rightarrow	OPC HDA Automation \rightarrow	STANAG 4406 Military Messaging
Digi RealPort (Net C/X)	IEC 61850 →	$OPC\;UA\to$	STANAG 5066
Digi RealPort (Net C/X) DNP3 ∃	IEC 61850-90-5 R-GOOSE	$OpenADR \rightarrow$	ToolsNet Open Protocol
Direct Message Profile \rightarrow	IEC 61850-90-5 R-SV	OSIsoft Asset Framework	$TRDP \rightarrow$
DLMS/COSEM(IEC62056) \rightarrow	IEEE 1278.2 DIS \rightarrow	OSISoft PI	Triconex TSAA \rightarrow
$DNP3 \rightarrow$	IEEE C37.118 Synchrophasor →	Profinet CBA \rightarrow	TriStation \rightarrow
ECHONET Lite \rightarrow	Inductive Automation Ignition Gateway	Profinet IO \rightarrow	Unitronics PCOM \rightarrow
ECOM100	KNXnet/IP (EIBnet/IP) →	Rockwell FactoryTalk AssetCentre	V2G.EXI
ELCOM 90 \rightarrow	LonTalk IEC14908-1 CNP \rightarrow	Rockwell FactoryTalk Diagnostic	V2G.SDP
Emerson DeltaV	Matrikon OPC Tunneller	Rockwell FactoryTalk Live Data	Veeder-Root ATG
Emerson ROC	Mitsubishi MELSEC →	Rockwell FactoryTalk RNA Alarming	Vnet/IP
Ether-S-Bus \rightarrow	$MMS \rightarrow$	Rockwell FactoryTalk RNA Server Ping	WITS0
Ether-S-I/O \rightarrow	Modbus RTU \rightarrow	Rockwell FactoryTalk View SE	$WITSML \rightarrow$
$EtherCAT \rightarrow$	Modbus TCP/IP <u></u> 	Rockwell FactoryTalk ViewPoint	
Ethernet POWERLINK			

Recent additions/updates

 \rightarrow message layer policy \exists message and parameter policy

For an up-to-date list of supported signatures, please visit fortiguard.com.

Entire list: https://www.fortiguard.com/services/ots Submit new (signature) request: https://www.fortiguard.com/faq/appctrlsubmit

OT Vulnerability Protection

650+ OT IPS Signatures

ОТ	OT Vulnerability Protections—Select Vendors											
ABB	ETIC	Моха	Ricon									
Advantech	Fuji	mySCADA	Rockwell									
AVEVA	GE	OAS	Schneider									
B&R Automation	Iconics	Omron	SEL									
Contec	Inductive Automation	Osprey	Siemens									
Delta IA	InHand Networks	Pepperl+Fuchs	Sierra Wireless									
DUT CCE	KeySight	PnP SCADA	WECON									
Eaton	Korenix	PTC	Wibu Systems									

Signature Packages for IoT Devices

Released in FortiOS 7.2

The signature packages are updated when FortiGate has a valid IoT Detection Service license.

> Although the signature packages are available in FortiOS 7.2.0, you cannot apply the signatures to network traffic. Support for this functionality is coming in future FortiOS releases.

Outbreak Prevention	 Licensed (Expiration Date: 2022/08/26) 		FortiGuard.com	4.731418
SD-WAN Network Monitor	 Licensed (Expiration Date: 2022/08/26) Licensed (Expiration Date: 2022/08/26) 		FortiGuard Download	275.39 MB
Security Rating	 Licensed (Expiration Date: 2022/08/26) 		FortiGuard Query	162.31 kB
Industrial DB	Licensed (Expiration Date: 2022/08/26)		FortiGate Cloud Sandbox	0 B
FortiIPAM	 Licensed (Expiration Date: 2022/08/26) 		OCVPN	0 B
IoT Detection Service	 Licensed (Expiration Date: 2022/08/26) 		SDNS	OB
IoT Detection Definitions	• Version 20.00308	Upgrade Database	FortiToken	
FortiGate Cloud	 Activated 	🗭 Logout	Registration	0 B
FortiGate Cloud Log Retention	 Licensed (Expiration Date: 2022/08/25) 		SMS Service	0 B

FortiAnalyzer OT Focused Dashboard and Reports

G. OT View Dashboard

Partly released

- OT Security Risk Report
- OT Security Compliance Report
 - CIS Top 20
 - IEC 62443-3-3
 - NERC CIP
 - and more...

Requires FAZ OT Security Service license



CIS Security Rating Report

EXECUTIVE SUMMARY

teta Range: 2022-06-07 00:00:00 2023-04-02 23:59:59PDT (FAZ tecal)

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FortiAnalyzer OT Focused Dashboard and Reports

XECUTIVE SUMMA	ARY	NERC CIP Comp Nev 30, 2023 21:00 and	Diance Security Rating F	Report (OT)				- e - e -	
		Requirement	Title	Jan 30, 2024 21:00 an			-1	FC	RTINET
CIS Controls Complia	nce Results	CIP-002-5.1.a	Cyber Security - BES Cyt	an 30, 2024 21:00 m	res , 2004 2100	0.00			
		Requirement 1	Each Responsible Entity s	EXECUTIVE SUMM	ARY				
48 Total	• 72.92% C • 27.08% C	Part 1.1	Identify each of the high in Attachment 1, Section 1, I	Aggregated NIST	CSF Check Results	Security Fabric Posture			
		Part 12	Identify each of the mediu to Attachment 1, Section 1	272	• 70% NIST CSF Passet 191		52.29% Pa		
OVER VIEW		Part 1.3	Identify each asset that co according to Attachment impact BES Cyber System	Total	30% NET CSF Failed: 81	Test 1	11.76% Ur 5.56% Exer		
IS CRITICAL SECURITY	CONTROL	Part 2.1	Review the identifications						
CIS Control	CIS Name		update them if there are c calendar months, even if it	OVER VIEW					
CIS Control 1	Inventory and	Part 2.2	Have its CIP Senior Mana	NIST CSF CYBERSE	CURITY FRAMEWORK V1.1				
CIS Control 1.1	Establish and		required by Requirement months, even if it has no ic	Category	Description	Failed, Unmet or Exempt (# of I	Device)	Passed (# of Devic	e)
CIS Control 1.2	Address Unac	CIP-003-8	Cyber Security - Security	IDAM	Identity: Asset Management		82	_	104
CIS Control 3	Data Protecti								
CIS Centrol 3.3	Configure Da	Requirement 1	Each Responsible Entity s more documented cyber s	ID.AM-1	Physical devices and systems within the organization are inventoried		25		30
CIS Control 3.10	Encrypt Sensi	1		ID.AM-2	Software platforms and applications within the organization	-	14	-	19
CIS Control 3.12	Segment Dat	Part 1.1	For its high impact and me		are inventoried		14		15
		Part 1.2	For its assets identified in Systems, if any.	ID.AM-3	Organizational communication and data flows are mapped	-	15	_	18
				ID.AM-4	External information systems are catalogued	-	10	-	8

FortiAnalyzer OT Vulnerability Management

Partly released

- MITRE ATT&CK for ICS
- Asset to vulnerability mapping
- KEV identification and reporting

Requires FAZ OT Security Service



FortiManager Asset Identity Center Improvements

FortiManager v7.4.x



Purdue Model Based Event Correlation

Available in FortiSIEM v6.5

Business Services is a logical grouping of Devices and Applications.

Model your OT Devices under the Business Service in FortiSIEM.

& FortiSIEM	🙆 DASHBOARD 🐚	ANALYTICS A INCIDE	NTS 🖬 CASES 🛢 CMDE
o c d	ø		
 Devices Applications Users Business Services IT Srvc Biz Srvc Compliance Operational Technology Ungrouped CMDB Reports 		Services > Operational lete Discovered by All •	
	Type N. Device P	uto expand ame Running On LC1-PCN-A2 LC1-PCN-A1	Access IP 192.168.100.197

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MITRE ATT&CK for ICS Dashboards

Released in FortiSIEM 6.5

Three MITRE ATT&CK dashboards for ICS are created to show Rule coverage, Incident coverage and Kill Chain analysis for ICS Techniques.

Currently 84 ICS ATT&CK Technique detection rules are provided out of the box and similar support for other vendors can be added.

Initial Access	Execution	Persistence	Evesion	Discovery	Lateral Movement	Collection	Command and Control	Inhibit Response Function	Impair Process Control	Impect
Data Historian Compromise	Change Program State	Hooking	Exploitation for Evasion	Control Device Identification	Default Credentials	Automated Collection	Commonly Used Port	Activate Firmware Update Mode	Brute Force I/O	Damage to Property
Drive-by Compromise	Command-Line Interface	Module Firmware	Indicator Removal on Host	I/O Module Discovery	Exploitation of Remote Services	Data from Information Repositories	Connection Praxy	Alarm Suppression	Change Program State	Denial of Contro
Engineering Workstation Compromise	Execution through API	Program Download	Masquerading	Network Connection Enumeration	External Remote Services	Detect Operating Mode	Standard Application Layer Protocol	Block Command Message	Masquerading	Denial of View
Exploit Public-Facing Application	Graphical User Interface	Project File Infection	Rogue Master Device	Network Service Scanning	Program Organization Units	Detect Program State		Block Reporting Message	Modify Control Logic	Loss of Availabili
External Remote Services	Man in the Middle	System Firmware	Rootkit	Network Sniffing	Remote File Copy	I/O Image		Block Serial COM	Modify Parameter	Loss of Control
nternet Accessible Device	Program Organization Units	Valid Accounts	Spoof Reporting Message	Remote System Discovery	Valid Accounts	Location Identification		Data Destruction	Module Firmware	Loss of Productivity and Revenue
Replication Through Removable Media	Project File Infection		Utilize/Change Operating Mode	Serial Connection Enumeration		Monitor Process State		Denial of Service	Program Download	Loss of Safety
pearphishing Attachment	Scripting					Point & Tag Identification		Device Restart/Shutdown	Rogue Master Device	Loss of View
iupply Chain Compromise	User Execution					Program Upload		Manipulate I/O Image	Service Stop	Manipulation of Control
Wireless Compromise						Role Identification		Modify Alarm Settings	Spool Reporting Message	Manipulation of View
						Screen Capture		Modify Control Logic	Unauthorized Command Message	Theft of Operational Information
								Program Download		
								Rootkit		
								System Firmware		
								Utilize/Change Operating Mode		

Link: https://docs.fortinet.com/document/fortisiem/6.5.0/release-notes/482665/whats-new-in-6-5-0#MITRE



Support for Various OT Technologies

Released in FortiSIEM 6.5

FortiSIEM supports these operational technology applications/ devices for discovery and monitoring.

- APC Netbotz Environmental Monitor
- APC UPS
- Claroty Continuous Threat Detection
- Cybereason
- Dragos Platform (Dragos Worldview Threat Feed Integration)
- Generic UPS
- Hirschmann SCADA Firewalls and Switches
- Liberty FPC
- Liberty HVAC
- Liberty UPS
- Microsoft Defender for IoT (Was CyberX OT/IoT Security)
- Nozomi Central Management Control (CMC)
- Nozomi SCADAguardian (Asset Discovery)
- OTORIO RAM2 (Risk Assessment, Monitoring and Management)
- VMware NSX-vSphere

FortiSRA Secure Remote Access

Agentless Secure Remote Access for OT



Manage Remote Access

Ensure only authorized users have access in a policy of least privilege





Manage Privileged Credentials

Store credentials securely and automatically create and rotate passwords



Monitor and Record Sessions

Post session audit and ability to terminate sessions in real-time

FortiDeceptor OT/IoT and Medical IoT Decoys

Released in FortiDeceptor 4.2

Expanded the Medical decoy and added Braun Infusomat pump.

Many vulnerabilities discovered in the Braun Infusomat pump product that exits widely in healthcare organization and become a target for threat actors.

The current FortiDeceptor decoy OS are: Windows Windows 7, Windows 10, Windows 2016 and Windows 2019 Linux Ubuntu Desktop, CentOS, ESXi and ELK IoT/OT SCADA version 3, Medical OS, and IoT OS. VPN Fortinet SSL-VPN (FG-60E, FG-100F, FG-1500D, FG-2000E, FG-3700D) **Customized Windows** Windows 10, Windows Server 2016, Windows Sever 2019 The current FortiDeceptor application decoys are: Application Decoys POS OS, ERP OS PACS and SAP The current FortiDeceptor lure services are: Windows RDP, SMB, TCPListener, NBNSSpoofSpotter, ICMP and FTP SSH, SAMBA, TCPListener, HTTP, HTTPS, GIT, ICMP and FTP Linux IoT/OT HTTP, FTP, TFTP, SNMP, MODBUS, S7COMM, BACNET, IPMI, TRICONEX, ENIP, Kamstrup, DNP3, Telnet, PACS-WEB, PACS, DICOM server, Infusion Pump (TELNET), Infusion Pump (FTP), POS-WEB, ERP-WEP, GUARDIAN-AST, IEC104, Jetdirect, Printer-WEB, IP Camera-WEB, UPnP, RTSP, CDP, TP-link WEB, CWMP, SAP DISPATCHER and SAP WEB SSL VPN HTTPS **Customized Windows** RDP, SMB, NBNSSpoofSpotter, MSSQL, IIS (HTTP/HTTPS) and ICMP

FortiDeceptor Network Asset Discovery Module

Released in FortiDeceptor 4.2

The asset discovery generates the network asset inventory using passive network sniffing for network threat visibility and decoy deployment automation.

The network asset discovery supports both IT and IoT/OT networks.



FortiDeceptor MITRE ATT&CK for ICS

Released in FortiDeceptor 4.3

FortiDeceptor 4.3.0 supports MITRE ICS framework, both as an independent menu and also inside the incident alert itself, to provide better visibility to incident alerts in the ICS network.

FortiDeceptor		=										>_	30 • 😶 ad
Dashboard Deception	> >	Initial Access	Execution	Persistence	Privilege Escalation	Evasion	Discovery	Lateral Movement	Collection	Command and Control	Inhibit Response Function	Impair Process Control	Impact
Incident Analysis	*	Drive-by Compromise	Change Operating Mode	Modify Program	Exploitation for Privilege Escalation	Change Operating Mode	Network Connection Enumeration	Default Credentials (2)	Automated Collection 1	Commonly Used Port	Activate Firmware Update Mode	Brute Force I/O Modify	Damage Propert
Campaign		Exploit Public- Facing Application	Command-	Module	Hooking	Exploitation	Network Sniffing	Exploitation of Remote Services	Data from Information	Connection Proxy	Alarm	Parameter	Denial of Co
Attack Map		Exploitation of	Line	Project File	1 iooning	for Evasion	Remote System Discovery	Lateral Tool	Repositories	Standard Application Laver	Suppression	Module Firmware	Denial of
MITRE ICS	`	Remote Services	Execution	Infection		Indicator Removal on	Remote System	Transfer 2	Detect Operating Mode	Protocol	Block Command Message	Spoof Reporting Message	Loss o Availabi
Network	>	External Remote Services	through API	System Firmware		Host	Information Discovery	Program Download	I/O Image		Block Reporting	Unauthorized Command	Loss of Co
lystem	>	Internet Accessible Device	Graphical User Interface	Valid Accounts		Rootkit	Wireless Sniffing	Remote Services	Man in the Middle		Message Block Serial COM	Message	Loss
Log	>	Remote Services 3	Hooking	2		Spoof		Valid Accounts	Monitor Process State		Data Destruction		Reven
		Replication Through	Modify			Reporting Message		2	Point & Tag		Denial of Service		Loss Protec
		Removable Media	Controller Tasking						Identification		Device		Loss of S
		Rogue Master	Native API						Program Upload Screen Capture		Restart/Shutdown Manipulate I/O		Loss of
		Spearphishing Attachment	Scripting						Wireless Sniffing		Image		Manipula Contr
		Supply Chain Compromise	User Execution						111 01000 01111116		Modify Alarm Settings		Manipula
		Transient Cyber									Rootkit		Viev
		Asset Wireless									Service Stop		Operati
		Compromise									System Firmware		morm

FortiDeceptor Decoys, Lures, and Tokens



FortiNDR OT Features

On Premises Deployment



- Industrial Security IDS/ IPS
- Application Control
- Device Inventory

- 15+ protocols support
- 50 vendors & applications



Machine Learning

- Identify applications based on FortiGuard OT Security Service
- Build baseline from customer traffic
- Identify anomalies



Malware Detection

- Detect OT-specific Malware
- Virtual Security AnalystTM
- Artificial Neural Networks

Another interesting attack using the Industroyer.V2 malware targeted a Ukrainian high-voltage substation

https://www.fortinet.com/blog/threat-research/the-year-of-the-wiper

FortiNDR OT Integration

On-premises SOC Deployment



FortiSOAR OT Updates



- Asset Management with OT Context
 - IT/OT Overview Dashboard
 - MITRE ATT&CK for ICS Dashboard
 - OT Compliance Management US BOD 22-01, NERC CIP
 - OT Partner Integrations OTbase, etc.
 - OT Threat-Intel Management and KEV correlation
 - OT View Dashboard Purdue Model Context

FortiSOAR MITRE ATT&CK for ICS Framework

FortiSOAR offers integrated MITRE ATT&CK for Industrial Control Systems Framework and provides pre-made playbooks for Recommended Mitigations based on the MITRE Technique detected.



FortiSOAR OT/IT Overview Dashboards

- FortiSOAR added OT/IT overview dashboards to visualize Asset and Alert overview across Purdue Levels. For example,
 - Metrics based on Purdue Model and asset distribution
 - Metrics on important vulnerabilities
 - Metrics on OT risks

- Metrics around Common Techniques
- Metrics around top alerts
- Metrics around MTTD/MTTR



FortiSOAR NERC CIP Compliance Package



FortiSOAR Asset Management with OT Context

FortiSOAR added,

- OT tailored Asset Management modules for Assets, Scans, Vulnerabilities
- Zone/Level Context based on Purdue
 Model
- Solution packs for Vulnerability
 Management and Orchestration
- Integrations with 3rd party VM vendors like Qualys, Tenable, Rapid7 and the likes

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0			172.104.1.125 (1)	0D:1E:64/T8:89:56	Avast - 291 (1) (1)	Firewall	Hardware	Avast	High	Active	Enterprise		Level 3	CPPLTESP	Copperfield Po_	10/07/2022 0

FortiSOAR Threat-Intel Management

Integration with FortiGuard and 3rd party OT security solutions

•							
Threat Intel Manageme	ent						
Dashboard Threat Feeds Titl Overview and ROF Incoming Intellig			Threat Hunting Pits and Workspeces Curbourd Feed Settlings				
Saved Feed Datasets + Ad	f Dataset	<	101201 Items 0 + Add				
High Confidence Covid Feeds	s o •		Value Value	Туре		Confidence	Reputation
器 Alert Dataset (s o •		Search X	Search -	Search	Search	Search •
Malicious Feeds "covid19" (s o •		17s914v1hbhq6mgb03hy1	5 URL	FortiGuard Threat Intel	60	Suspiciou
			coronaviruscovers.com	Domain	Anomali Limo Threat Intel	50	Suspiciou
			🔲 tjofmsja.net	URL	FortiGuard Threat Intel	50	Suspiciou
			cfcjtek5zpmo5k7ki.com	URL	FortiGuard Threat Intel	80	Suspiciou
			🗌 xu7bbjvcym3r3.xyz	URL	FortiGuard Threat Intel	50	Suspiciou
			http://officeexcelplus.duck	dn URL	FortiGuard Threat Intel	70	Suspiciou
			🗌 aaktpzb.ru	URL	FortiGuard Threat Intel	50	Suspiciou
			c756e25d166bb7e79c83d8	12 URL	FortiGuard Threat Intel	50	Suspiciou
			🗌 cizkwiju.net	URL	FortiGuard Threat Intel	50	Suspiciou
			🗌 rihidkawygócij.net	URL	FortiGuard Threat Intel	50	Suspiciou
			veonrpqlwezluch.info	URL	FortiGuard Threat Intel	50	Suspiciou
			186.6.49.14:80	IP Address	FortiGuard Threat Intel	50	Suspiciou
			hendtig.net	URL	FortiGuard Threat Intel	80	Suspiciou
			gxglz4uhbkk.net	URL	FortiGuard Threat Intel	50	Suspiciou
			jgw5bt5vc4oo.com	URL	FortiGuard Threat Intel	50	Suspiciou
			p27dokhpz2n7nvgr.1dyzdh	t Domain	Anomali Limo Threat Intel	50	Suspicious

FortiSOAR added OT specific threat-intel management

- Multiple threat feed integrations, normalized single pane view of threat feeds. FortiGuard lookup and feed included.
- Includes full threat intelligence lifecycle: Planning & Direction, Collection, Processing, Analysis, Production and Dissemination, and Feedback.
- FortiGuard Industrial Security Service integration coming soon

FortiSOAR Security Fabric Integrations

Seamless integrations for security orchestration and automation across Fortinet Security Fabric solutions.



