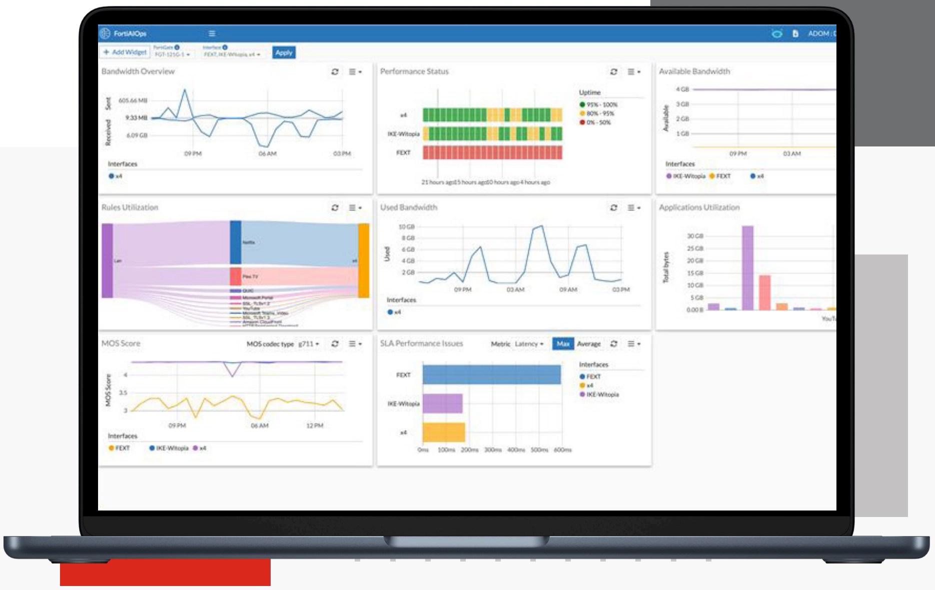
FortiAIOps



Highlights

- Extensive Network Visibility
- AI-powered Insights
- Robust Troubleshooting Tools
- Reduced Trouble Tickets
- Reported Results
- Lower TCO

Artificial Intelligence and Machine Learning Enhance Network Operations

FortiAIOps simplifies LAN and WAN network management and leverages artificial intelligence with machine learning for enhanced network operations.

FortiAIOps delivers a simple and easy means to manage a Fortinet networking stack (FortiAP, FortiSwitch, FortiGate, and FortiExtender). Network monitoring functionality gives visibility and in-depth understanding at your fingertips. From Layer 1 diagnostic information to Layer 7 application visibility, FortiAIOps covers Wi-Fi, Ethernet, SD-Wan, and 5G/LTE Gateway. Built-in troubleshooting tools enable active testing of network components to find faults and verify functionality.

The built-in Artificial Intelligence engine uses machine learning to catch issues, solve problems, and prevent network degradation. Artificial Intelligence can systematically consume the extensive amount of data being produced throughout the Security Fabric, correlate it, and analyze the results with Machine Learning so that you don't have to.

FortiAIOps is available as a virtual machine. In all deployment scenarios it works natively with Fortinet NOC and SOC tools to unify and simplify the way you manage the Fortinet Security Fabric.

Available in

Appliance

Virtual

BYOL using public cloud providers

Key Features and Benefits

- Extensive Network Visibility: Monitoring and reporting of WLAN, LAN, SD-WAN, 5G/LTE Gateway
- AI-Powered Insights: Cross correlate events and data from across the deployment to quickly identify issues
- Robust Troubleshooting Tools: Built in tools to validate your deployment at any network level
- Reduced Trouble Tickets: Identify and correct issues before they start impacting users
- Reported Results: Delivers reporting and historical visibility
- Lower TCO: Reduce the amount of time staring at management screens or trying to resolve issues

Monitoring

Key Functions

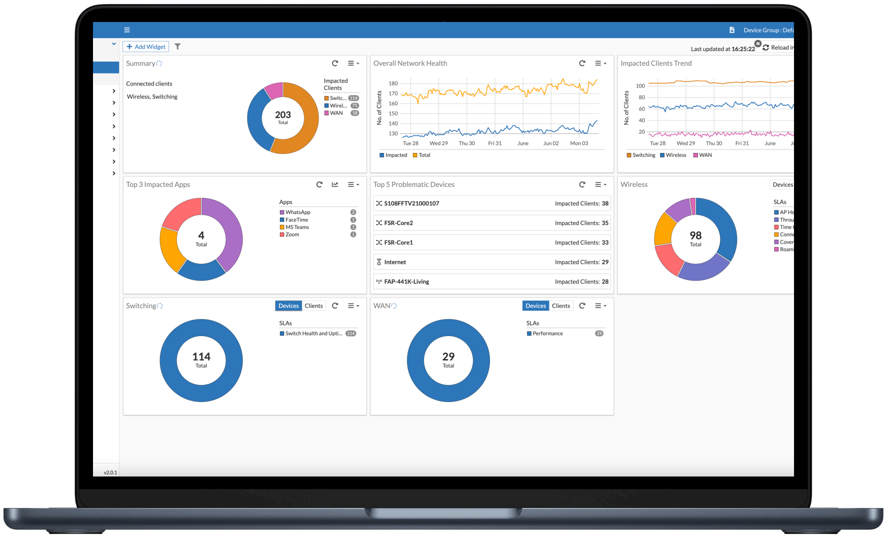
- Comprehensive real-time and historical performance trends dashboards including RF metrics for a centralized view
- Quick and easy navigation with information no more than two clicks away
- Real-time network visualization enables remote management and saves on-site truck-roll expenses
- Current and historical metrics enable rapid resolution of issues by rewinding and recreating past state
- Customized dashboards allow any time, anywhere management of the network

Simplified Dashboard

- With a simplified dashboard setup, FortiAIOps allows the user to quickly get a read on their network health including Wi-Fi, Ethernet, and SD-WAN, and whether there is anything that needs attention.

Monitor Desired Service Levels

Use trending information and configured SLAs determine the good or bad health of your network



Top 5 Problematic Devices

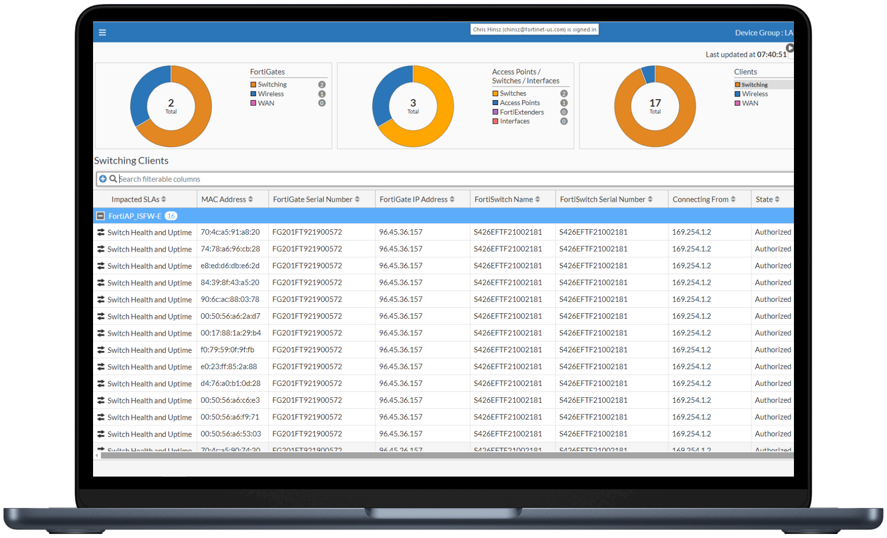
- S108FFTV21000107 Impacted Clients: 38
- FSR-Core2 Impacted Clients: 35
- FSR-Core1 Impacted Clients: 33
- Internet Impacted Clients: 29
- FAP-441K-Living Impacted Clients: 28

Minimal Network Impact

FortiAIOps leverages the same logs that FortiAnalyzer is already collecting, meaning there is no additional overhead on your network to add Artificial Intelligence to the Security Fabric. This activity is another benefit of a combined platform approach to Security-Driven Networking.

Topology Navigation

FortiAIOps leverages Fortinet Security Fabric integration to give you a visualization of your network at the point of an issue to understand the scope and implications of issues found.

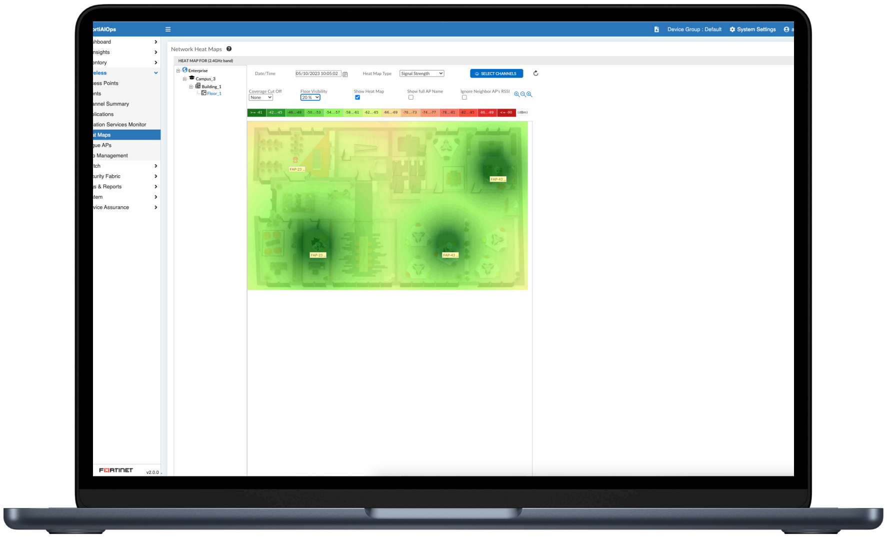


Switching Clients

Impacted SLAs	MAC Address	FortiGate Serial Number	FortiGate IP Address	FortiSwitch Name	FortiSwitch Serial Number	Connecting From	State
FortiAP_ISFW-E 16							
Switch Health and Uptime	70:4c:a5:91:a8:20	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	74:78:a6:96:cb:28	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	e8:ed:d6:db:e6:2d	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	84:39:8f:43:a5:20	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	90:6c:ac:88:03:78	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	00:50:56:a6:2a:d7	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	00:17:88:1a:29:b4	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	f0:79:59:0f:9f:fb	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	e0:23:ff:85:2a:88	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	d4:76:a0:b1:0d:28	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	00:50:56:a6:c6:e3	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	00:50:56:a6:f9:71	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	00:50:56:a6:53:03	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized
Switch Health and Uptime	70:4c:a5:90:74:30	FG201FT921900572	96.45.36.157	S426EFTF21002181	S426EFTF21002181	169.254.1.2	Authorized

Network Heatmaps

Get visibility into the current state of your deployment with live heatmaps. Various network metrics can be visualized including signal strength, Throughput, Loss, Channel Utilization, or Number of Stations. Set thresholds to view only those areas passing important criteria or roll back the clock to see how things looked in the past.



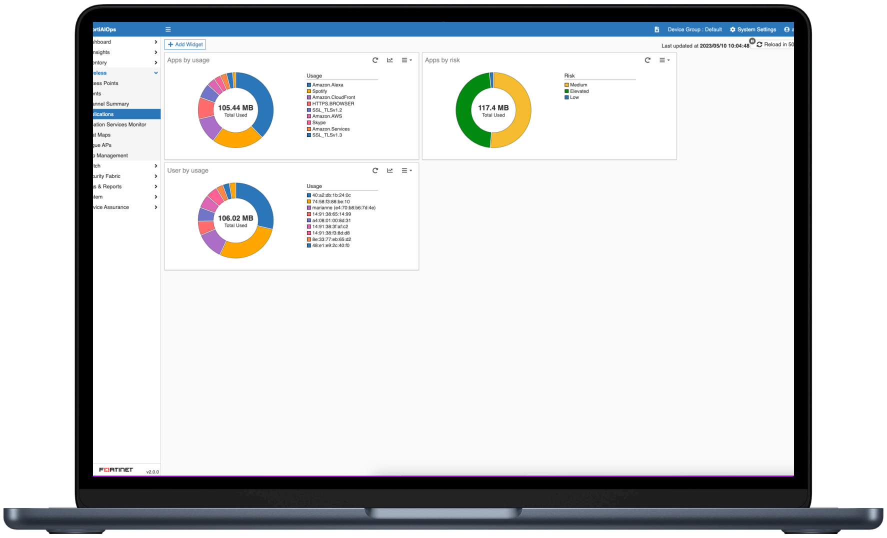
Network Heat Maps

HEAT MAP FOR (2.4GHz band)

Date/Time: 05/10/2023 10:05:02
Heat Map Type: Signal Strength
Coverage Cut Off: None
Floor Visibility: 20 %
Show Heat Map ☑
Show full AP Name □
Ignore Neighbor AP's RSSI □

Application Monitoring

Get insights into what people are doing on your network with the FortiAIOps DPI Application Monitoring feature. All detected or blocked applications will be listed with trend views available.



Last updated at 2023/05/10 10:04:48

Troubleshooting

Key Functions

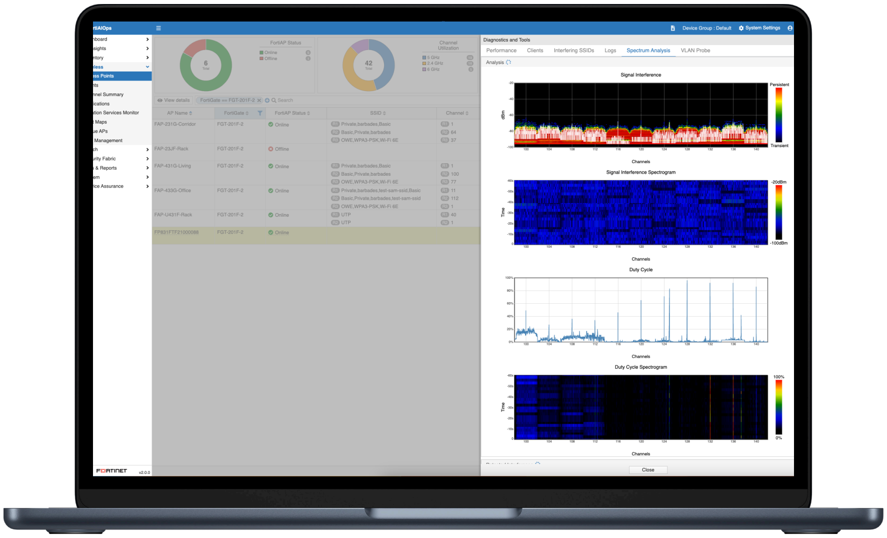
- Network testing toolkit allows for issue research and verification of performance
- Service Assurance testing validates that SLAs are being met, even across wireless medium
- Deep information analysis down to the port or RF level

Get Answers Quick or See Details if Desired

With the tools available within, you can quickly get remediation suggestions for detected network issues. But if you want to dive in further, FortiAIOps will take you directly to the information you're interested in and let you dive as deep as you want into logged information about the device.

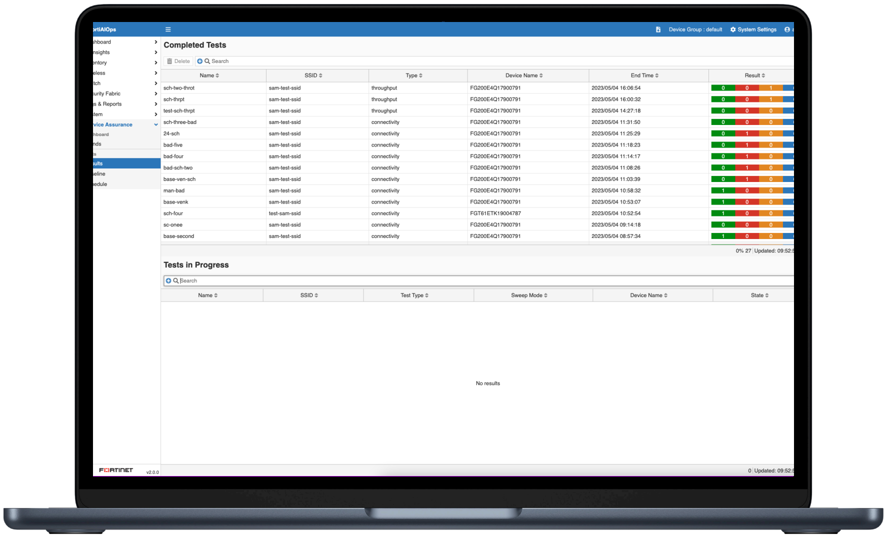
Spectrum Analyzer

Detect, classify, and manage wireless interference. Spectrum Manager gathers interference data from a network of dedicated sensors. It can also gather data from the APs which can dedicate one of its radios to act as a sensor.



Wireless Assurance

Validate the network from the RF side by using an AP as a client to attach to the network and verify all networking services are behaving as expected.



Completed Tests

Name	SSID	Type	Device Name	End Time	Result
sch-two-throt	sam-test-ssid	throughput	FG200E4Q17900791	2023/05/04 16:06:54	0 0 1
sch-thrpt	sam-test-ssid	throughput	FG200E4Q17900791	2023/05/04 16:00:32	0 0 1
test-sch-thrpt	sam-test-ssid	throughput	FG200E4Q17900791	2023/05/04 14:27:18	0 0 0
sch-three-bad	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 11:31:50	0 0 0
24-sch	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 11:25:29	0 1 0
bad-five	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 11:18:23	0 1 0
bad-four	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 11:14:17	0 1 0
bad-sch-two	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 11:08:26	0 1 0
base-ven-sch	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 11:03:39	0 1 0
man-bad	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 10:58:32	1 0 0
base-venk	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 10:53:07	1 0 0
sch-four	test-sam-ssid	connectivity	FGT61ETK19004787	2023/05/04 10:52:54	1 0 0
sc-onee	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 09:14:18	0 0 0
base-second	sam-test-ssid	connectivity	FG200E4Q17900791	2023/05/04 08:57:34	1 0 0

0% 27 | Updated: 09:52:5

Tests in Progress

Name	SSID	Test Type	Sweep Mode	Device Name	State

No results

0 | Updated: 09:52:5

Cable Test

- Find the true problem in your wired network
- Eliminate bad cables as the source of frustrating performance problems. Wired Cable Test tool allows you to verify that the cabling in your installation is valid and doesn't have issues.

SD-WAN

Key functions

- AI-Driven predictive modeling
- Deviation analysis

SLA modeling

- Model and baseline of normal network behavior
- Deviation Analysis

Performance forecasting

- Dynamic baseline modeling
- Proactive anomaly detection

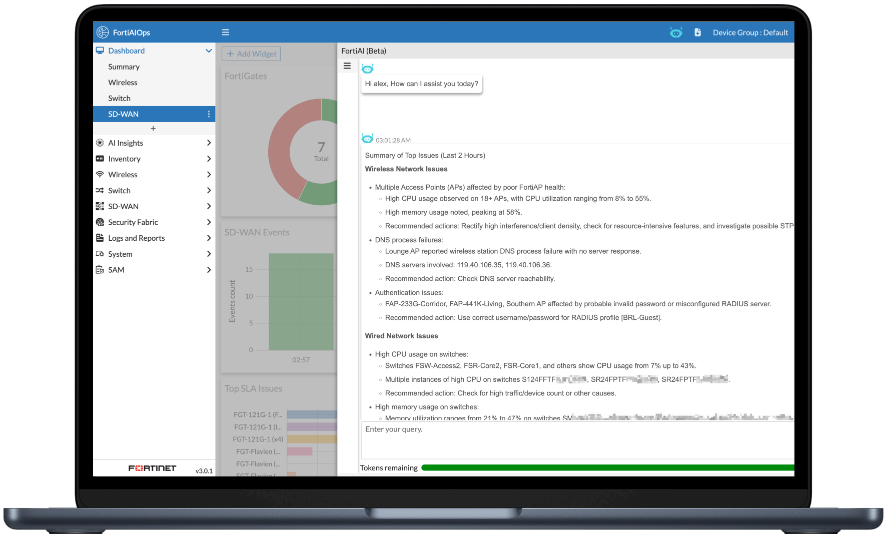
AI Insights with Machine Learning

The AI Engine combs through all your data and pulls out key items that need attention, giving you drill down focus on problems and easy solutions to complex issues. Machine Learning can determine what's normal for your network and your traffic, then keep that performance across time.

FortiAI

FortiAI is Fortinet's embedded artificial intelligence framework, integrated across the Security Fabric to defend against emerging threats, automate operations, and secure AI adoption. It spans three categories—FortiAI-Protect, FortiAI-Assist, and FortiAI-SecureAI.

Within this framework, FortiAI-Assist brings generative AI and advanced reasoning to simplify network operations. FortiAIOps leverages these Assist capabilities through a conversational, GenAI-powered interface for troubleshooting. Admins can ask natural-language questions—such as identifying roaming issues, diagnosing throughput problems, or checking SSID and network health—and instantly receive context-rich answers with likely causes and recommended remedies. By embedding FortiAI-Assist, FortiAIOps accelerates troubleshooting, reduces noise, and improves overall operational efficiency.



Hi alex, How can I assist you today?

03:01:28 AM

Summary of Top Issues (Last 2 Hours)

Wireless Network Issues

- Multiple Access Points (APs) affected by poor FortiAP health:
  - High CPU usage observed on 18+ APs, with CPU utilization ranging from 8% to 55%.
  - High memory usage noted, peaking at 58%.
  - Recommended actions: Rectify high interference/client density, check for resource-intensive features, and investigate possible STP
- DNS process failures:
  - Lounge AP reported wireless station DNS process failure with no server response.
  - DNS servers involved: 119.40.106.35, 119.40.106.36.
  - Recommended action: Check DNS server reachability.
- Authentication issues:
  - FAP-233G-Corridor, FAP-441K-Living, Southern AP affected by probable invalid password or misconfigured RADIUS server.
  - Recommended action: Use correct username/password for RADIUS profile [BRL-Guest].

Wired Network Issues

- High CPU usage on switches:
  - Switches FSW-Access2, FSR-Core2, FSR-Core1, and others show CPU usage from 7% up to 43%.
  - Multiple instances of high CPU on switches S124FFTF[redacted], SR24FPTF[redacted], SR24FPTF[redacted].
  - Recommended action: Check for high traffic/device count or other causes.
- High memory usage on switches:
  - Memory utilization ranges from 21% to 47% on switches SM[redacted]

Specifications

FORTIAIOPS APPLIANCES**	FAO-500G
Performance* in Combined mode (shipped/maximum)	
FortiGates	0 / 1000
FortiSwitch	0 / 3000
FortiExtender	0 / 1000
FortiAP	0 / 6000
Stations	0 / 25 000
Options	
FortiAIOps Monitoring Subscription	FCX-10-AOIHR-673-01-DD
FortiAIOps AI Insights Subscription	FCX-10-AOIHR-674-01-DD
FortiAIOps Monitoring and AI Insights Subscription Bundle	FCX-10-AOIHR-1087-01-DD
FortiAIOps SD-WAN Subscription	FCX-10-AOIHR-675-01-DD
Hardware Specifications	
Form Factor (supports EIA/non- EIA standards)	2 RU Rackmount
Total Interfaces	4× 1GbE RJ45 + 2× 10GbE SFP+
Console	DB9 serial console
USB Ports	2x USB 3.0 ports
Storage Capacity (Max)	4× 2.5 in. hot-swappable 2TB SDD | 8× 3.5 in. hot-swappable 4TB SAS HDD
Storage Capacity (shipped)	2× 2.5 in. hot-swappable 2TB SDD | 4× 3.5 in. hot-swappable 4TB SAS HDD
Usable Storage Before RAID (Shipped / Max)	Hot/SSD = ~3.84 / 7.68 TB Warm/HDD = ~16 / 32 TB
Removable Hard Drives	✓
RAID Levels Supported	RAID 0/1/5/10
RAID Type	Hardware / Hot Swappable
Default RAID Level	Hot/SSD : RAID 1 | Warm/HDD : RAID 5
Redundant Hot Swap Power Supplies	✓
Trusted Platform Module (TPM)	✓
Dimensions	
Height x Width x Length (inches)	3.46 × 17.32 × 29.33
Height x Width x Length (mm)	88 × 440 × 745
Weight	50.2 lbs (22.8 kg)
Environment	
AC Power Supply	100-240Vac, 50~60Hz, 7A max
Power Consumption (Average/ Max)	580 W / 705 W
Heat Dissipation	2404 BTU/h (Max.)
Operating Temperature	32°F to 104° F (0°C to 40° C)
Storage Temperature	-4°F to 167° F (-20°C to 75° C)
Humidity	5% to 95% relative humidity, non-operating, non-condensing
Forced Airflow	Front to Back
Operating Altitude	Up to 10 000 ft (3048 m)
Compliance	
	FCC, ISED, CE, RCM, VCCI, BSMI, UL/cUL, CB

*Please refer to Ordering Guide for full details on performance

** FortiAIOps appliances do not have any license included. FortiAIOps subscriptions need to be purchased separately.

Ordering Information

FortiAIOps offers subscriptions for Monitoring, AI Insights, or SD-WAN. For Monitoring or AI Insights, licensing is by number of extension devices (FortiSwitch or FortiAP), for SD-WAN licensing is by FortiGate devices. A bundle of both Monitoring and AI Insights is available as well.

VM Service Categories	SKU	Description
FortiAIOps Monitoring	FC1-10-AOVMS-668-01-DD	FortiAIOps Monitoring subscription for 25 extension device. Includes FortiCare Premium.
	FC2-10-AOVMS-668-01-DD	FortiAIOps Monitoring subscription for 500 extension device. Includes FortiCare Premium.
	FC3-10-AOVMS-668-01-DD	FortiAIOps Monitoring subscription for 2000 extension device. Includes FortiCare Premium.
	FC4-10-AOVMS-668-01-DD	FortiAIOps Monitoring subscription for 10000 extension device. Includes FortiCare Premium.
FortiAIOps Monitoring and AI Insights Bundle	FC1-10-AOVMS-670-01-DD	FortiAIOps Monitoring and AI Insights subscription BUNDLE for 25 extension device. Includes FortiCare Premium.
	FC2-10-AOVMS-670-01-DD	FortiAIOps Monitoring and AI Insights subscription BUNDLE for 500 extension device. Includes FortiCare Premium.
	FC3-10-AOVMS-670-01-DD	FortiAIOps Monitoring and AI Insights subscription BUNDLE for 2000 extension device. Includes FortiCare Premium.
	FC4-10-AOVMS-670-01-DD	FortiAIOps Monitoring and AI Insights subscription BUNDLE for 10000 extension device. Includes FortiCare Premium.
FortiAIOps SD-WAN	FC1-10-AOVMS-671-01-DD	FortiAIOps SD-WAN subscription for 25 FortiGate device. Includes FortiCare Premium.
	FC2-10-AOVMS-671-01-DD	FortiAIOps SD-WAN subscription for 500 FortiGate device. Includes FortiCare Premium.
	FC3-10-AOVMS-671-01-DD	FortiAIOps SD-WAN subscription for 2000 FortiGate device. Includes FortiCare Premium.
	FC4-10-AOVMS-671-01-DD	FortiAIOps SD-WAN subscription for 10000 FortiGate device. Includes FortiCare Premium.
Appliance and Service Categories	**SKU**	**Description**
FortiAIOps-500G	FAO-500G	4x GE RJ45 ports, 2× 10 GE SFP+ ports, 1x RJ45 Serial Console port, 2× 1.92 TB SSD, 4× 3.5 in. 4 TB Storage.
	FC-10-A500G-247-02-DD	FortiCare Premium Support.
FortiAIOps Monitoring	FC1-10-AIOHR-673-01-DD	FortiAIOps Appliance Monitoring subscription for 25 extension device.
	FC2-10-AIOHR-673-01-DD	FortiAIOps Appliance Monitoring subscription for 500 extension device.
	FC3-10-AIOHR-673-01-DD	FortiAIOps Appliance Monitoring subscription for 2000 extension device.
	FC4-10-AIOHR-673-01-DD	FortiAIOps Appliance Monitoring subscription for 10000 extension device.
FortiAIOps Monitoring and AI Insights Bundle	FC1-10-AIOHR-1087-01-DD	FortiAIOps Appliance Monitoring and AI Insights subscription BUNDLE for 25 extension device.
	FC2-10-AIOHR-1087-01-DD	FortiAIOps Appliance Monitoring and AI Insights subscription BUNDLE for 500 extension device.
	FC3-10-AIOHR-1087-01-DD	FortiAIOps Appliance Monitoring and AI Insights subscription BUNDLE for 2000 extension device.
	FC4-10-AIOHR-1087-01-DD	FortiAIOps Appliance Monitoring and AI Insights subscription BUNDLE for 10000 extension device.
FortiAIOps SD-WAN	FC1-10-AIOHR-675-01-DD	FortiAIOps Appliance SD-WAN subscription for 25 FortiGate device.
	FC2-10-AIOHR-675-01-DD	FortiAIOps Appliance SD-WAN subscription for 500 FortiGate device.
	FC3-10-AIOHR-675-01-DD	FortiAIOps Appliance SD-WAN subscription for 2000 FortiGate device.
	FC4-10-AIOHR-675-01-DD	FortiAIOps Appliance SD-WAN subscription for 10000 FortiGate device.

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Visit https://www.fortinet.com/resources/ordering-guides for related ordering guides.

Fortinet Corporate Social Responsibility Policy

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the Fortinet EULA and report any suspected violations of the EULA via the procedures outlined in the Fortinet Whistleblower Policy.

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