FortiManager

With today's challenging cybersecurity landscape, Security teams are falling behind due to resource constraints and an inability to keep up with the latest threats. Complexity and the unknown diminish security effectiveness – NOC-SOC helps to rejuvenate and strengthen your Security Posture. Centralized Security Management helps companies **Operationalize and Automate Security** to improve response time and awareness, and **Fortinet's Security Fabric** is the foundation of that new approach. FortiManager provides one console to manage your network, giving you full control of your Fortinet devices with enterprise-class management.

Centralized Security Management

FortiManager's **NOC-SOC Operations Management** provides Secure Operationalized Visibility across your Fortinet Security Fabric which enables real time security monitoring, threats and vulnerabilities identification and remediation.

Quantifiable Security solution information such as Security Maturity and Security Ratings produce measureable accountability which you can use to determine your security preparedness internally and compare it to that of your industry peers.

Workflow Integration with ITSM (ServiceNow) to mitigate security events and apply configuration changes and policy updates.

FortiManager/
FortiManager-VM
Centralized Management

SD WAN

VPN

Managed FortiAnalyzer/
FortiAnalyzer-VM
Logging and Reporting

FortiGates
Headquarters
Data Center

FortiGates
Remote Offices/
Branch Offices

Cloud
Integration

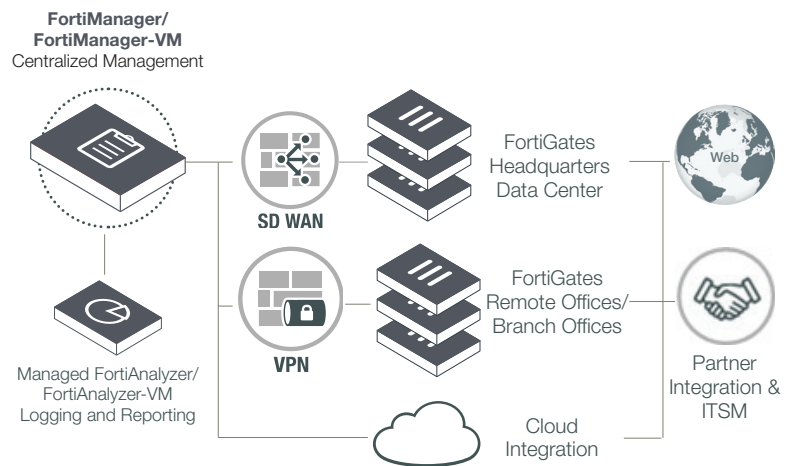Web

Partner
Integration &
ITSM

Figure1: FortiManager Deployment

Key Features

- Centralized device management: A single console to manage all Fortinet firewalls switches , wireless infrastructure and endpoints

- Centralized policies and objects management: Quickly create and modify policies/objects with a consolidated, drag and drop enabled, in-view editor

- Detailed revision tracking, and thorough auditing capabilities

- Manage devices in a Security Fabric group as if they were a single device and display the Security Fabric topology

- Workflow integration for change control management

- Centralized SD-WAN provisioning and monitoring

- Central VPN management: VPN communities, tunnel management, topologies

- Automation - templates and scripts for device provisioning automation and policy installation with JSON APIs or XML API, to reduce your management burden and operational costs

- Granular device and role based administration for large enterprises and multi-tenancy deployments

- Centralized software upgrades and security updates for the managed devices

Single Pane-of-Glass Management

Fortinet Security Fabric delivers sophisticated security management for unified, end-to-end protection. Deploying Fortinet-based security infrastructure to battle advanced threats, and adding FortiManager to provide single-pane-of-glass management across your entire extended enterprise provides insight into network-wide traffic and threats.

FortiManager offers enterprise-class features to contain advanced threats. FortiManager also delivers the industry's best scalability to manage up to 100,000 Fortinet devices. FortiManager, coupled with the FortiAnalyzer family of centralized logging and reporting appliances, provides a comprehensive and powerful centralized management solution for your organization.

Highlights

Central SD-WAN Deployment and Monitoring
Centrally monitor SD-WAN performance. Monitor your devices on Map view with color coded icons and mouse over to view health performance statistics for each SD-WAN link member. Table View provides more granular information for each SD-WAN link member, including link status, application performance and bandwidth usage.

Managed FortiAP, FortiSwitch & FortiExtender
Centrally manage wireless networks, create wifi templates, AP profiles, SSIDs and WIDS. Manage entire FortiSwitch infratructure.

Configuration and Settings Management
Collectively configure the device settings, objects and policies across your network from a single user interface. The VPN manager simplifies the deployment and allows centrally-provisioned VPN community and monitoring of VPN connections on Google Map. FortiAP Manager allows configuring, deploying and monitoring FortiAPs from a single console with Google Map view. The FortiClient Manager allows centralized configuration, deployment, and monitoring of FortiClients.
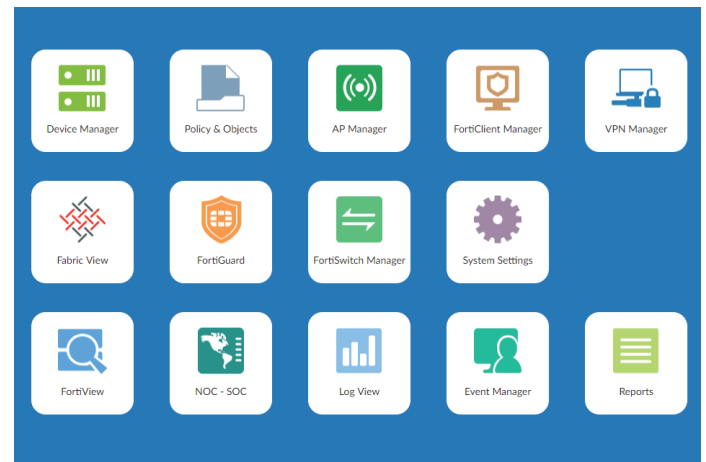

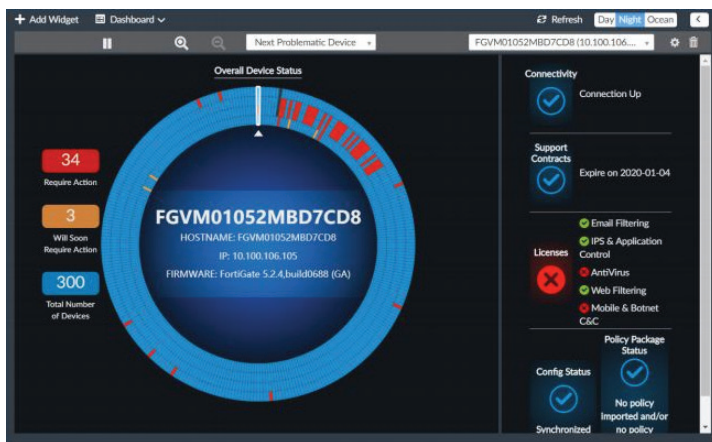
Figure 3: FortiManager Dashboard

Figure 2: NOC-SOC Device Status Dashboard

Integration & Security Fabric
Integration with ITSM (ServiceNow) to mitigate security events and apply configuration changes and policy updates. Seamless integration with FortiAnalyzer appliances provides in-depth discovery, analysis, prioritization and reporting of network security events

Workflow for Audit and Compliance
FortiManager enables you to review, approve and audit policy changes from a central place, including automated processes to facilitate policy compliance, policy lifecycle management, and enforced workflow to reduce risk for policy changes.

Monitor and Report for Deep Visibility
Access vital security and network statistics, as well as real-time monitoring and integrated reporting provides visibility into network and user activity. For more powerful analytics, combine with a FortiAnalyzer appliance for additional data mining and graphical reporting capabilities.

Highlights

Locally Hosted FortiGuard Labs Security Content
Host security content locally for greater control over security content updates and improved response time for rating database. Includes support for: Application Control and Intrusion Prevention updates, Vulnerability Management, Antispam, Antivirus and Web Filtering updates.

Multi-Tenancy and Hierarchical —
Administrative Domains (ADOMs)
FortiManager provides a hierarchical objects database to facilitate re-use of common configurations and a multi-tenancy architecture to serve multiple customers. The graphical interface makes it easy to view, create and manage ADOMs. You can use ADOMs to manage independent security environments, each ADOM with its own security policies and configuration database. FortiManager enables you to group devices logically or geographically for flexible management, and the zero-touch deployment uses templates to provision devices for quick mass deployment. Define global objects such as Firewall Objects, Policies and Security Profiles to share across multiple ADOMs. Granular permissions allow assigning ADOMs, devices and policies to users based on role and duties.
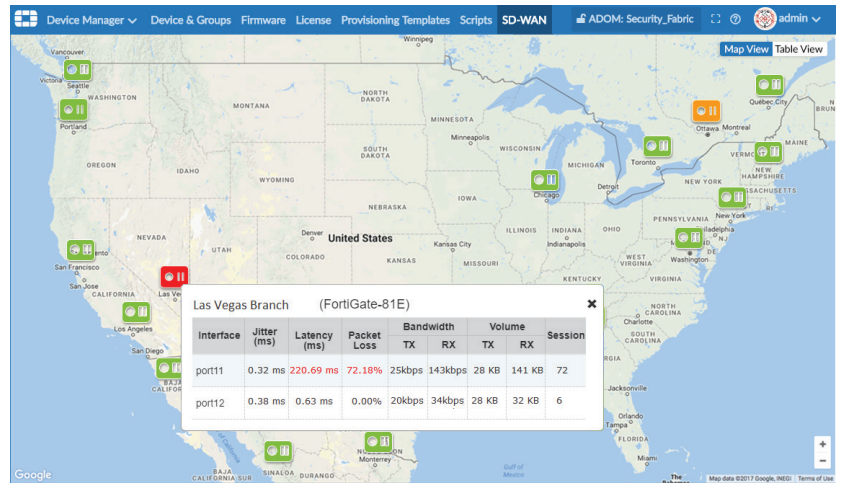

Figure 4: SD-WAN Monitor

API for Automation and Orchestration
RESTful API allows MSSPs/large enterprises to create customized, branded web portals for policy and object administration. Automate common tasks such as provisioning new FortiGates and configuring existing devices. Join Fortinet Developer Network (FNDN) to access exclusive articles, how-to content for automation and customization, community-built tools, scripts and sample code.

FortiManager VM

Fortinet offers the FortiManager VM in a stackable license model. This model allows you to expand your VM solution as your environment expands. Utilizing virtualization technology, FortiManager-VM is a software-based version of the FortiManager hardware appliance and is designed to run on many virtualization platforms. It offers all the features of the FortiManager hardware appliance.

The FortiManager virtual appliance family minimizes the effort required to monitor and maintain acceptable use policies, as well as identify attack patterns that can be used to fine tune the security policy, thwarting future attackers.

Specifications

FORTIMANAGER VIRTUAL APPLIANCES	FMG-VM-BASE	FMG-VM-10-UG	FMG-VM-100-UG	FMG-VM-1000-UG	FMG-VM-5000-UG
CAPACITY					
Devices/VDOMs (Maximum)[1,4]	10	10 +	100 +	1,000 +	5,000 +
Storage Capacity[2]	100 GB	200 GB	1 TB	4 TB	8 TB
GB/Day of Logs[3]	1	2	5	10	25
Chassis Management	✅	✅	✅	✅	✅
VIRTUAL MACHINE					
Hypervisor Support	VMware ESX/ESXi 5.0/5.1/5.5/6.0/6.5/6.7, Microsoft Hyper-V 2008 R2/2012/2012 R2/2016, Citrix XenServer 6.0+ and Open Source Xen 4.1+, KVM on Redhat 6.5+ and Ubuntu 17.04, Amazon Web Services (AWS), Microsoft Azure, Google Cloud (GCP), Oracle Cloud Infrastructure (OCI), AliCloud				
vCPU Support (Minimum / Maximum)	2 / Unlimited				
Network Interface Support (Min / Max)	1 / 4				
Storage Support (Minimum / Maximum)	100 GB / 16 TB				
Memory Support (Minimum / Maximum)	4 GB / Unlimited for 64-bit				
High Availability Support	Yes				

[1] Each Virtual Domain (VDOM) operating on a physical or virtual device counts as one (1) licensed network device [2] Limited in software to 10,000 devices/VDOMs
[3] Storage Capacity and GB/Day of Logs are not stackable. These values represent the maximum available with purchased license. [4] +Indicates Device Add-On License available

Specifications

	FMG-200F	FMG-300F	FMG-400E
CAPACITY AND PERFORMANCE			
Devices/VDOMs (Maximum)[1]	30	100	300
Sustained Log Rates	50	50	50
GB/Day	2	2	2
HARDWARE SPECIFICATIONS			
Storage Capacity	8 TB (2 x 4 TB)	16 TB (4 x 4 TB)	24 TB (8x 3 TB)
Total Storage (after RAID)	4 TB	8 TB	21 TB
RAID Levels Supported	RAID 0/1	RAID 0/1/5/10	RAID 0/1/5/6/10/50/60
Default RAID	1	10	50
Hardware Form Factor	1 RU Rackmount	1 RU Rackmount	2 RU Rackmount
Total Interfaces	2xRJ45 GE, 2xSFP	4 x GbE RJ45, 2 x SFP	2x GE
Console Port	RJ45	RJ45	DB9
Removable Hard Drives	No	✓	✓
Redundant Hot Swap Power Supplies	No	No	✓
Chassis Management	✓	✓	✓
DIMENSIONS			
Height x Width x Length (inches)	1.75 x 17.0 x 15.0	1.75 x 17.44 x 22.16	3.5 x 17.2 x 25.2
Height x Width x Length (cm)	4.4 x 43.2 x 38	4.4 x 44.3 x 56.3	8.9 x 43.7 x 64.8
Weight	18.9 lbs (8.6 kg)	28.6 lbs (13.0 kg)	52 lbs (23.6 kg)
ENVIRONMENT			
AC Power Supply	100-240V 50-60 Hz	100–240V AC, 50-60 Hz	100–240V AC, 50-60 Hz
Power Consumption (Average / Maximum)	65W / 130W	108W / 186W	192.5W / 275W
Heat Dissipation	445 BTU/h	634 BTU/h	920 BTU/h
Operating Temperature	32–104°F (0–40°C)	32–104°F (0–40°C)	41–95°F (5–35°C)
Storage Temperature	-31–158ºF (-35–70ºC)	-31–158ºF (-35–70ºC)	-40–140°F (-40–60°C)
Humidity	20 to 90% non-condensing	20 to 90% non-condensing	8–90% non-condensing
Operating Altitude	Up to 7,400 ft (2,250 m)	Up to 7,400 ft (2,250 m)	Up to 9,842 ft (3,000 m)
COMPLIANCE			
Safety Certifications	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST

[1] Each Virtual Domain (VDOM) operating on a physical or virtual device counts as one (1) licensed network device

Global Policies and high availability support available on all models

Specifications

	FMG-2000E	FMG-3000F	FMG-3700F
CAPACITY AND PERFORMANCE			
Devices/VDOMs (Maximum)[1, 4]	1,200	4,000+	10,000+
Sustained Log Rates	50	150	150
GB/day logs	2	10	10
HARDWARE SPECIFICATIONS			
Storage Capacity	36 TB (12x 3 TB)	48 TB (16x 3 TB)	240 TB (60x 4 TB)
Total Storage (after RAID)	30 TB	42 TB	216 TB
RAID Levels Supported	RAID 0/1/5/6/10/50/60	RAID 0/1/5/6/10/50/60	RAID 0/1/5/6/10/50/60
Default RAID	50	50	50
Hardware Form Factor	2 RU Rackmount	3 RU Rackmount	4 RU Rackmount
Total Interfaces	4x GE, 2x 10 GE SFP+	4x GE, 2x 10 GE SFP+	2x10GbE SFP+, 2x1GbE RJ-45
Console Port	DB-9	DB-9	DB9
Removable Hard Drives	✓	✓	✓
Redundant Hot Swap Power Supplies	✓	✓	✓
Chassis Management	✓	✓	✓
DIMENSIONS			
Height x Width x Length (inches)	3.5 x 17.2 x 25.6	5.2 x 17.2 x 25.5	7 x 17.2 x 30.2
Height x Width x Length (cm)	8.9 x 43.7 x 64.8	13.2 x 43.7 x 64.8	17.8 x 43.7 x 76.7
Weight	58 lbs (26.3 kg)	76 lbs (34.5 kg)	120 lbs (54.6 kg)
ENVIRONMENT			
AC Power Supply	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz
Power Consumption (Average / Maximum)	293.8W/354W	449W/541W	850W/1423.4W
Heat Dissipation	1209 BTU/h	1846.5 BTU/h	4858 BTU/h
Operating Temperature	50–95°F (10–35°C)	50–95°F (10–35°C)	50–95°F (10–35°C)
Storage Temperature	-40–158°F (-40–70°C)	-40–158°F (-40–70°C)	-40–158°F (-40–70°C)
Humidity	8–90% non-condensing	8–90% non-condensing	8–90% non-condensing
Operating Altitude	Up to 7,400 ft (2,250 m)	Up to 7,400 ft (2,250 m)	Up to 7,400 ft (2,250 m)
COMPLIANCE			
Safety Certifications	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST

[1] Each Virtual Domain (VDOM) operating on a physical or virtual device counts as one (1) licensed network device

Global Policies and high availability support available on all modelsDevice

[4] + Indicates Device Add-On License available

Order Information

PRODUCT	SKU	DESCRIPTION
FortiManager	FMG-200F	Centralized management, log and analysis appliance — 2xRJ45 GE, 2xSFP, 8 TB storage, up to 30x Fortinet devices/virtual domains.
	FMG-300F	Centralized management, log and analysis appliance — 4x GE RJ45, 2xSFP, 16 TB storage, up to 100x Fortinet devices/virtual domains.
	FMG-400E	Centralized management, log and analysis appliance — 2x GE RJ45, 24 TB storage, up to 300x Fortinet devices/virtual domains.
	FMG-2000E	Centralized management, log and analysis appliance — 4x GE RJ45, 2x 10 GE SFP+ slots, 36 TB storage, dual power supplies, manages up to 1,200 Fortinet devices/virtual domains.
	FMG-3000F	Centralized management, log and analysis appliance — 4x GE RJ45, 2x 10 GE SFP+ slots, 48 TB storage, dual power supplies, manages up to 4,000 Fortinet devices/virtual domains.
	FMG-3700F	Centralized management, log and analysis appliance — 2x10GbE SFP+, 2x1GbE RJ-45 slots, 240 TB storage, dual power supplies, manages up to 10,000 Fortinet devices/virtual domains.
FortiManager Device Upgrade	FMG-DEV-100-UG	FortiManager device upgrade license for adding 100 Fortinet devices/VDOMs (3000 series and above - hardware only)
FortiManager VM	Built-in Evaluation	Built-in 15-day EVAL license, no activation required.
	Full Evaluation (60-days)	EVAL license. License and activation required.
	FMG-VM-Base	Base license for stackable FortiManager-VM. Manages up to 10 Fortinet devices/Virtual Domains, 1 GB/Day of Logs and 100 GB storage capacity. Designed for all supported platforms.
	FMG-VM-10-UG	Upgrade license for adding 10 Fortinet devices/Virtual Domains; allows for total of 2 GB/Day of Logs and 200 GB storage capacity.
	FMG-VM-100-UG	Upgrade license for adding 100 Fortinet devices/Virtual Domains; allows for total of 5 GB/Day of Logs and 1 TB storage capacity.
	FMG-VM-1000-UG	Upgrade license for adding 1,000 Fortinet devices/Virtual Domains; allows for total of 10 GB/Day of Logs and 4 TB storage capacity.
	FMG-VM-5000-UG	Upgrade license for adding 5,000 Fortinet devices/Virtual Domains; allows for total of 25 GB/Day of Logs and 8 TB storage capacity.
Additional FortiManager Items	FC-10-FNDN1-139-02-12	1 Year Subscription Renewal for 1 User to Fortinet Developer Network
	FC-10-FNDN2-139-02-12	1 Year Subscription for Unlimited Users to Fortinet Developer Network
	FMG-SDNS	License to operate FortiManager as a dedicated Secure DNS server appliance (3000 series and above – hardware only)

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