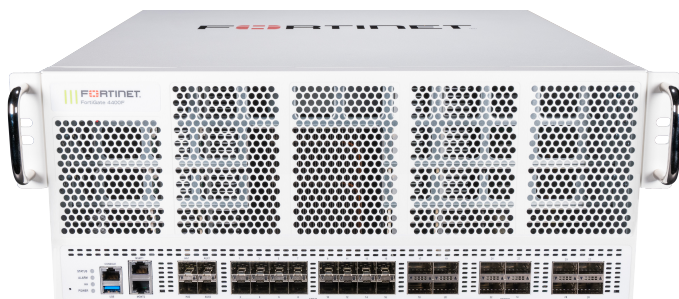


DATA SHEET

# FortiGate® 4400F Series

FG-4400F/-DC and FG-4401F/-DC



Next Generation Firewall  
Carrier-Grade NAT Gateway  
Segmentation  
IPS  
Mobile Security

The FortiGate 4400F series delivers high performance next generation firewall (NGFW) capabilities for large enterprises and service providers. With multiple high-speed interfaces, high-port density, and high-throughput, ideal deployments are at the enterprise edge, hybrid data center core, and across internal segments. Leverage industry-leading IPS, SSL inspection, and advanced threat protection to optimize your network's performance. Fortinet's Security-Driven Networking approach provides tight network integration to the new security generation.

## Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevent and detect against known and unknown attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services

## Performance

- Delivers industry's best threat protection performance and ultra-low latency using purpose-built security processor (SPU) technology
- Provides industry-leading performance and protection for SSL encrypted traffic

## Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs

## Networking

- Delivers advanced networking capabilities that seamlessly integrate with advanced layer 7 security and virtual domains (VDOMs) to offer extensive deployment flexibility, multi-tenancy and effective utilization of resources
- Delivers high-density, flexible combination of various high-speed interfaces to enable best TCO for customers for data center and WAN deployments

## Management

- Includes a management console that is effective, simple to use, and provides comprehensive network automation and visibility
- Provides Zero Touch Integration with Security Fabric's Single Pane of Glass Management
- Predefined compliance checklist analyzes the deployment and highlights best practices to improve overall security posture

## Security Fabric

- Enables Fortinet and Fabric-ready partners' products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation

Firewall	IPS	NGFW	Threat Protection	Interfaces
1.15 Tbps	94 Gbps	82 Gbps	75 Gbps	Multiple GE RJ45, 25 GE SFP28 / 10 GE SFP+ / GE SFP and 100 GE QSFP28 / 40 GE QSFP+ slots   DC Variants

Refer to specification table for details

## DEPLOYMENT



### Next Generation Firewall (NGFW)

- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with Industry-validated IPS security effectiveness, low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric



### Segmentation

- Segmentation that adapts to any network topology, delivering end-to-end security from the branch level to data centers and extending to multiple clouds
- Reduce security risks by improving network visibility from the components of the Fortinet Security Fabric, which adapt access permissions to current levels of trust and enforce access control effectively and efficiently
- Delivers defense in depth security powered by high-performance L7 inspection and remediation by Fortinet's SPU, while delivering third party validated TCO of per protected Mbps
- Protects critical business applications and helps implement any compliance requirements without network redesigns



### Mobile Security for 4G, 5G and IOT

- SPU accelerated, high performance CGNAT and IPv4 and IPv6 traffic, for 4G SGI LAN and 5G N6 security
- RAN Access Security with highly scalable and best performing IPsec aggregation and control security gateway (SecGW)
- User plane security enabled by full Threat Protection and visibility into GTP-U inspection
- 4G and 5G security for user and data plane traffic SCTP, GTP-U/C and SIP that provides protection against attacks
- 4G and 5G cores IoT signaling storm protection
- High-speed interfaces to enable deployment flexibility



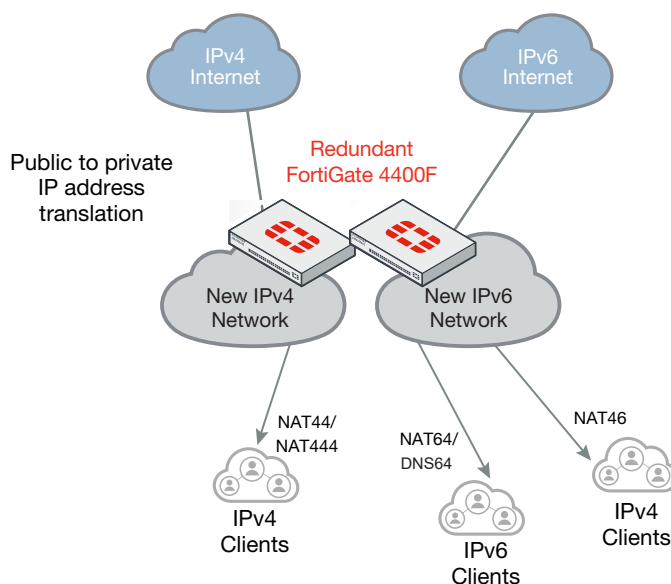
### IPS

- Purpose-built security processors delivering industry validated IPS performance with high throughput and low latency
- Deploy virtual patches at the network level to protect against network exploitable vulnerabilities and optimize network protection time
- Deep packet inspection at wire speeds offers unparalleled threat visibility into network traffic including traffic encrypted with the latest TLS 1.3
- Proactively block newly discovered sophisticated attacks in real-time with advanced threat protection provided by the intelligence services of the Fortinet Security Fabric



### Carrier-Grade NAT (CGN) Gateway

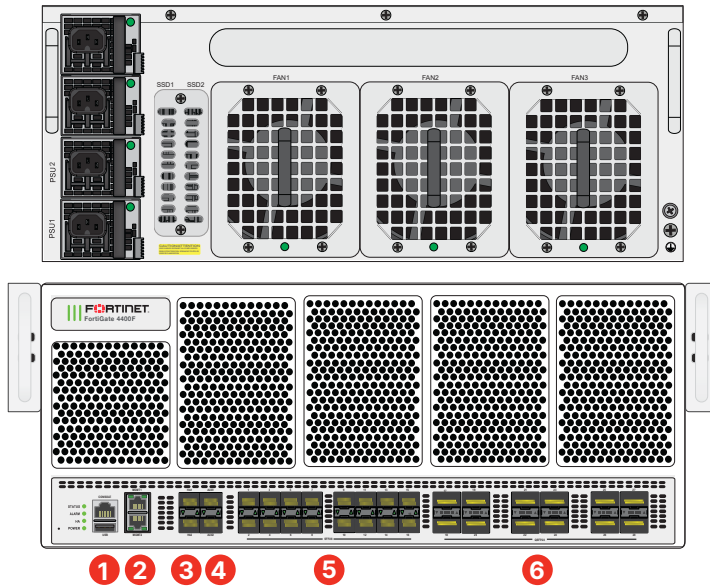
- Specialized hardware acceleration architecture with outstanding high CPS, capable of processing massive signaling surges
- Offers carrier-grade scalability with ultra-high number of IP address translations and connection setup rates, high throughput, and high-speed logging
- Built for BYOD and IoT with support for a high number of Concurrent Sessions
- Compact 4U form factor, ideal for space-constraint applications and lower colocation cost for service providers
- Comprehensive Carrier-Grade NAT and IPv6 migration options including: NAT44, NAT444, NAT64/DNS64, and NAT46



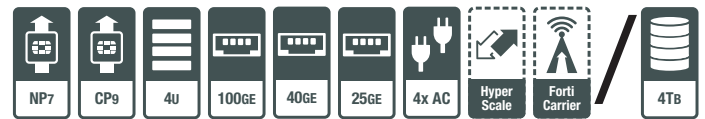
CGN Deployment in Enterprise or Managed Service Provider Networks

## HARDWARE

### FortiGate 4400F/-DC and 4401F/-DC



### Hardware Features



### Interfaces

1. USB Management and Console Port
2. 2x GE RJ45 Management Ports
3. 2x 25GE SFP28/10GE SFP+/GE SFP High Availability Slots

4. 2x 25GE SFP28/10GE SFP+/GE SFP AUX Slots
5. 16x 25GE SFP28/10GE SFP+/GE SFP Slots
6. 12x 100GE QSFP28 / 40 GE QSFP+ Slots

### Hyperscale Firewall License

Empower organizations by unlocking further performance boosts with this perpetual license. The Hyperscale Firewall License will enable the hardware acceleration of CGNAT features by utilizing the latest SPU NP7. These features include hardware session setup, firewall session logging, and NAT.

### Content Processor

Fortinet's ninth generation custom SPU CP9 content processor works outside of the direct flow of traffic and accelerates the inspection.

#### Powered by SPU

- Fortinet's custom SPU processors deliver the power you need to detect malicious content at multi-Gigabit speeds
- Other security technologies cannot protect against today's wide range of content- and connection-based threats because they rely on general-purpose CPUs, causing a dangerous performance gap
- SPU processors provide the performance needed to block emerging threats, meet rigorous third-party certifications, and ensure that your network security solution does not become a network bottleneck



### Trusted Platform Module (TPM)

The FortiGate 4400F Series features a dedicated module that hardens physical networking appliances by generating, storing, and authenticating cryptographic keys. Hardware-based security mechanisms protect against malicious software and phishing attacks.

### Network Processor

Fortinet's latest SPU NP7 Hyperscale architecture is a purpose-built network processor that delivers accelerated hardware performance for FortiOS:

- IPv4/IPv6, SCTP, unicast, multicast, and anycast
- CAPWAP, VXLAN, and GRE IP tunneling
- IPSec VPN (including Suite B)
- DDoS protection in hardware against volumetric attacks, fragment reassembly, traffic shaping and priority queuing
- Elephant Flows of up to 100Gbps

### 100 GE Network Connectivity

High-speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 4400F provides multiple 100 GE QSFP28 slots, simplifying network designs without relying on additional devices to bridge desired connectivity.



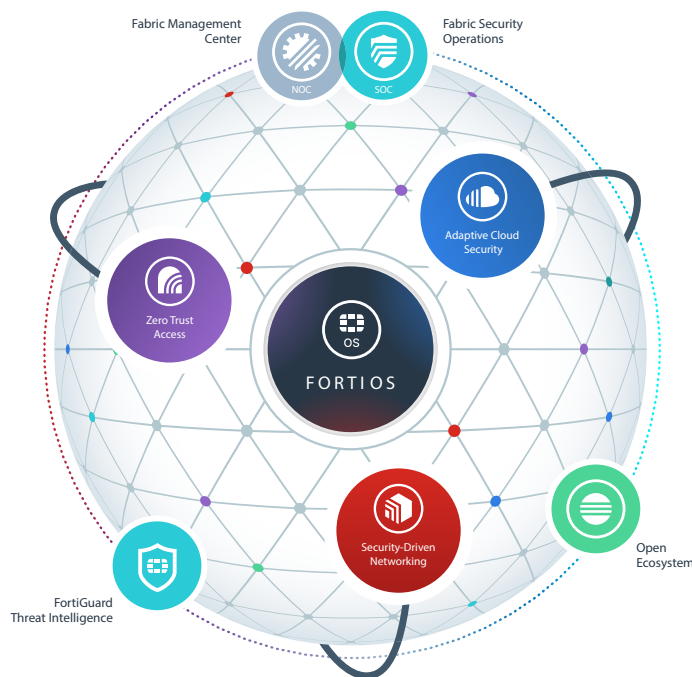
## FORTINET SECURITY FABRIC

### Security Fabric

The industry's highest-performing cybersecurity platform, powered by FortiOS, with a rich ecosystem designed to span the extended digital attack surface, delivering fully automated, self-healing network security.

- **Broad:** Coordinated detection and enforcement across the entire digital attack surface and lifecycle with converged networking and security across edges, clouds, endpoints, and users
- **Integrated:** Integrated and unified security, operation, and performance across different technologies, location, deployment options, and the richest ecosystem
- **Automated:** Context aware, self-healing network and security posture leveraging cloud-scale and advanced AI to automatically deliver near-real-time, user-to-application coordinated protection across the Fabric

The Fabric empowers organizations of any size to secure and simplify their hybrid infrastructure on the journey to digital innovation.



### FortiOS™ Operating System

FortiOS, Fortinet's leading operating system enable the convergence of high performing networking and security across the Fortinet Security Fabric delivering consistent and context-aware security posture across network endpoint, and clouds. The organically built best of breed capabilities and unified approach allows organizations to run their businesses without compromising performance or protection, supports seamless scalability, and simplifies innovation consumption.

The release of FortiOS 7 dramatically expands the Fortinet Security Fabric's ability to deliver consistent security across hybrid deployment models of Hardware, Software, and Software As-a-Service with SASE and ZTNA, among others.

## SERVICES



### FortiGuard™ Security Services

FortiGuard Labs offer real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet's solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world's leading threat monitoring organizations and other network and security vendors, as well as law enforcement agencies.



### FortiCare™ Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare services help thousands of organizations get the most from their Fortinet Security Fabric solution. We have more than 1,000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.

# SPECIFICATIONS

FORTIGATE	4400F/-DC	4401F/-DC
<b>Interfaces and Modules</b>		
Hardware Accelerated 100 GE QSFP28 / 40 GE QSFP+ Slots	12	
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP Slots	16	
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP HA Slots	2	
Hardware Accelerated 25 GE SFP28 / 10 GE SFP+ / GE SFP AUX Slots	2	
GE RJ45 Management Ports	2	
USB Port (3.0)	1	
Console Port	1	
Onboard Storage	—	2x 2 TB SSD
Included Transceivers	2x SFP+ (SR 10 GE)	
<b>System Performance — Enterprise Traffic Mix</b>		
IPS Throughput <sup>2</sup>	94 Gbps	
NGFW Throughput <sup>2,4</sup>	82 Gbps	
Threat Protection Throughput <sup>2,5</sup>	75 Gbps	
<b>System Performance and Capacity</b>		
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	1.15 / 1.14 / 0.50 Tbps	
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	1.15 / 1.14 / 0.50 Tbps	
Firewall Latency (64 byte, UDP)	2.98 µs	
Firewall Throughput (Packet per Second)	750 Mpps	
Concurrent Sessions (TCP)	210 Million / 700 Million *	
New Sessions/Second (TCP)	1 Million / 10 Million *	
Firewall Policies	200,000	
IPsec VPN Throughput (512 byte) <sup>1</sup>	310 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	40,000	
Client-to-Gateway IPsec VPN Tunnels	200,000	
SSL-VPN Throughput	16 Gbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	30,000	
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>	86 Gbps	
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>	70,000	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>	9 Million	
Application Control Throughput (HTTP 64K) <sup>2</sup>	140 Gbps	
CAPWAP Throughput (HTTP 64K)	63 Gbps	
Virtual Domains (Default / Maximum)	10 / 500	
Maximum Number of FortiSwitches Supported	300	
Maximum Number of FortiAPs (Total / Tunnel)	8,192 / 4,096	
Maximum Number of FortiTokens	20,000	
Maximum Number of Registered FortiClients	20,000	
High Availability Configurations	Active, Active-Active, Passive, Clustering	

FORTIGATE	4400F/-DC	4401F/-DC
Dimensions and Power		
Height x Width x Length (inches)	6.97 × 17.20 × 26.17	
Height x Width x Length (mm)	177 × 437 × 665	
Weight	81.8 lbs (37.1 kg)	83.1 lbs (37.7 kg)
Form Factor (supports EIA/non-EIA standards)	Rack Mount, 4 RU	
AC Power Supply	100–240V AC, 50/60 Hz	
Power Consumption (Average / Maximum)	1533W / 1875W	1539W / 1881W
AC Current (Maximum)	20A@100V, 9A@240V	
DC Power Supply	-48V to -60V DC	
DC Current (Average / Maximum)	32A /100 Apk	
Heat Dissipation	6397.77 BTU/h	6418.24 BTU/h
Redundant Power Supplies	Yes, Hot Swappable, 2+2 (AC), 1+1 (DC)	
Fan Tray	Hot Swappable	
Operating Environment and Certifications		
Operating Temperature	32–104°F (0–40°C)	
Storage Temperature	-31–158°F (-35–70°C)	
Humidity	20–90% non-condensing	
Noise Level	68.9 dBA	
Forced Airflow	Front to Back	
Operating Altitude	Up to 7,400 ft (2,250 m)**	
Compliance	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN, USGv6/IPv6	

\* Requires Hyperscale Firewall License

\*\* Operating at maximum temperature derates 1.5°C per 1,000 ft (305 m)

Note: All performance values are “up to” and vary depending on system configuration.

1. IPsec VPN performance test uses AES256-SHA256.
2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
3. SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

4. NGFW performance is measured with Firewall, IPS and Application Control enabled.
5. Threat Protection performance is measured with Firewall, IPS, Application Control, URL filtering, and Malware Protection with sandboxing enabled.





## ORDERING INFORMATION

Product	SKU	Description
<b>FortiGate 4400F</b>	FG-4400F	12× 100GE/40GE QSFP28 slots and 18× 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, and AC power supplies.
<b>FortiGate 4400F-DC</b>	FG-4400F-DC	12× 100GE/40GE QSFP28 slots and 18× 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, and DC power supplies.
<b>FortiGate 4401F</b>	FG-4401F	12× 100GE/40GE QSFP28 slots and 18× 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2× 2TB storage and AC power supplies.
<b>FortiGate 4401F-DC</b>	FG-4401F-DC	12× 100GE/40GE QSFP28 slots and 18× 25GE/10GE SFP28 slots, 2 x GE RJ45 Management Ports, SPU NP7 and CP9 hardware accelerated, 2× 2TB storage and DC power supplies.
<b>Hyperscale Firewall License</b>	LIC-FGT-HYPSC	Hyperscale Firewall License for FortiGate FG-4200F/FG4201F Series for hardware session setup acceleration and logging.
Optional Accessories/Spares	SKU	Description
<b>AC Power Supply</b>	SP-FG4000F-PS	2000WAC powersupply for 4000F and 6000F series, does not include SP-FGPCORC15-XX power cord.
<b>AC Power Cord</b>	SP-FGPCORC15-XX	6 ft power cord, 15A125V XXX, PSE BLACK ROHS-6, for FG-3900E, 4000F, 6000F and 7000E/F Series
<b>DC Power Supply</b>	SP-FG4000F-DC-PS	DC power supply for FG-4200F-DC/4201F-DC, FG-4400F-DC/4401F-DC and FG-6000F-DC.
<b>Fan Tray</b>	SP-FG4K6K-FAN	Spare Hotswappable Fan Module for FG-420xF/440xF/6000F.
<b>1 GE SFP LX Transceiver Module</b>	FN-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
<b>1 GE SFP RJ45 Transceiver Module</b>	FN-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.
<b>1 GE SFP SX Transceiver Module</b>	FN-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
<b>10 GE SFP+ RJ45 Transceiver Module</b>	FN-TRAN-SFP+GC	10 GE SFP+ RJ45 transceiver module for systems with SFP+ slots.
<b>10 GE SFP+ Transceiver Module, Short Range</b>	FN-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.
<b>10 GE SFP+ Transceiver Module, Long Range</b>	FN-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.
<b>10 GE SFP+ Transceiver Module, Extended Range</b>	FN-TRAN-SFP+ER	10 GE SFP+ transceiver module, extended range for all systems with SFP+ and SFP/SFP+ slots.
<b>10 GE SFP+ Active Direct Attach Cable, 10m / 32.8 ft</b>	SP-CABLE-ADASFP+	10 GE SFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ slots.
<b>25 GE SFP28 Transceiver Module, Short Range</b>	FN-TRAN-SFP28-SR	25 GE SFP28 transceiver module, short range for all systems with SFP28 slots.
<b>25 GE SFP28 Transceiver Module, Long Range</b>	FG-TRAN-SFP28-LR	25 GE SFP28 transceiver module, long range for all systems with SFP28 slots.
<b>40 GE QSFP+ Transceiver Module, Short Range</b>	FN-TRAN-QSFP+SR	40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.
<b>40 GE QSFP+ Transceiver Module, Short Range BiDi</b>	FG-TRAN-QSFP+SR-BIDI	40 GE QSFP+ transceiver module, short range BiDi for all systems with QSFP+ slots.
<b>40 GE QSFP+ Transceiver Module, Long Range</b>	FN-TRAN-QSFP+LR	40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.
<b>100 GE QSFP28 Transceivers, Short Range</b>	FN-TRAN-QSFP28-SR	100 GE QSFP28 transceivers, 4 channel parallel fiber, short range for all systems with QSFP28 slots.
<b>100 GE QSFP28 Transceivers, Long Range</b>	FN-TRAN-QSFP28-LR	100 GE QSFP28 transceivers, 4 channel parallel fiber, long range for all systems with QSFP28 slots.
<b>100 GE QSFP28 Transceivers, CWDM4</b>	FN-TRAN-QSFP28-CWDM4	100 GE QSFP28 transceivers, LC connectors, 2KM for all systems with QSFP28 slots.



## BUNDLES



### FortiGuard Bundle

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiCare	ASE <sup>1</sup>	24×7	24×7	24×7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web and Video <sup>2</sup> Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard IoT Detection Service	•	•		
FortiGuard Industrial Service	•	•		
FortiConverter Service	•	•		
SD-WAN Orchestrator Entitlement	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
Fortinet SOCaaS	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			

1. 24×7 plus Advanced Services Ticket Handling

2. Available when running FortiOS 7.0



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