FortiGate FortiWiFi 40F Series

FG-40F, FG-40F-3G4G, FWF-40F, FWF-40F-3G4G

Highlights

Gartner Magic Quadrant Leader for both Network Firewalls and SD-WAN.

Security-Driven Networking with FortiOS delivers converged networking and security.

Unparalleled Performance with Fortinet's patented SoC processors.

Enterprise Security with consolidated AI / ML-powered FortiGuard Services.

Simplified Operations with centralized management for networking and security, automation, deep analytics, and self-healing.

Converged Next-Generation Firewall and SD-WAN

The FortiGate FortiWiFi 40F series integrates firewalling, SD-WAN, and security in one appliance, ideal for building security-driven networks at distributed enterprise sites and transforming WAN architecture at any scale.

The FortiGate FortiWiFi 40F series is powered by the FortiOS operating system with the industry's first converged networking and security. This convergence enables businesses to efficiently secure today's dynamic digital infrastructures.

As a cornerstone of the Fortinet Security Fabric platform, the FortiGate Next Generation Firewall (NGFW) works seamlessly with FortiGuard AI-powered Security Services to deliver coordinated, automated, end-to-end threat protection across all use cases in real time.

The 40F family is built on the patented SD-WAN-based ASIC, delivering unmatched performance over traditional CPU with lower cost and power consumption. This application-specific design and embedded multi-core processor further accelerates the convergence of networking and security functions in the 40F family to optimize secure connection and user experience at branch locations.

IPS	NGFW	Threat Protection	Interfaces
1 Gbps	800 Mbps	600 Mbps	Multiple GE RJ45 | WiFi variants

Available in

Appliance

Virtual

Hosted

Cloud

Container

FortiOS Everywhere

FortiOS, Fortinet's Advanced Operating System

FortiOS enables the convergence of high performing networking and security across the Fortinet Security Fabric. Because it can be deployed anywhere, it delivers consistent and context-aware security posture across network, endpoint, and multi-cloud environments.

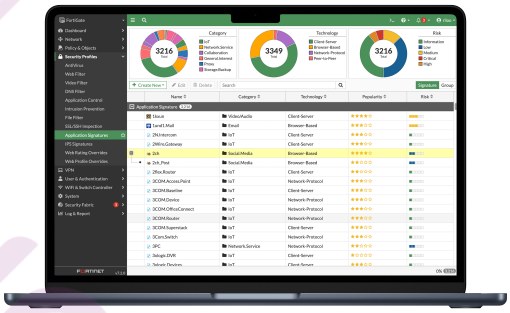
FortiOS powers all FortiGate deployments whether a physical or virtual device, as a container, or as a cloud service. This universal deployment model enables the consolidation of many technologies and use cases into organically built best-of-breed capabilities, unified operating system, and ultra-scalability. The solution allows organizations to protect all edges, simplify operations, and run their business without compromising performance or protection.

FortiOS dramatically expands the Fortinet Security Fabric's ability to deliver advanced AI/ML-powered services, inline advanced sandbox detection, integrated ZTNA enforcement, and more. It provides protection across hybrid deployment models for hardware, software, and Software-as-a-Service with SASE.

FortiOS expands visibility and control, ensures the consistent deployment and enforcement of a simplified, single policy and management framework. Its security policies enable centralized management across large-scale networks with the following key attributes:

- Interactive drill-down and topology viewers that display real-time status
- On-click remediation that provides accurate and quick protection against threats and abuses
- Unique threat score system correlates weighted threats with users to prioritize investigations

Intuitive easy to use view into the network and endpoint vulnerabilities



Visibility with FOS Application Signatures

FortiConverter Service

FortiConverter Service provides hassle-free migration to help organizations transition from a wide range of legacy firewalls to FortiGate Next-Generation Firewalls quickly and easily. The service eliminates errors and redundancy by employing best practices with advanced methodologies and automated processes. Organizations can accelerate their network protection with the latest FortiOS technology.

FortiGuard Services

Network and File Security

Services provide protection against network-based and file-based threats. This consists of Intrusion Prevention (IPS) which uses AI/M models to perform deep packet/SSL inspection to detect and stop malicious content, and apply virtual patching when a new vulnerability is discovered. It also includes Anti-Malware for defense against known and unknown file-based threats. Anti-malware services span both antivirus and file sandboxing to provide multi-layered protection and are enhanced in real-time with threat intelligence from FortiGuard Labs. Application Control enhances security compliance and offers real-time application visibility.

Web / DNS Security

Services provide protection against web-based threats including DNS-based threats, malicious URLs (including even in emails), and botnet/command and control communications. DNS filtering provides full visibility into DNS traffic while blocking high-risk domains, and protects against DNS tunneling, DNS infiltration, C2 server ID and Domain Generation Algorithms (DGA). URL filtering leverages a database of 300M+ URLs to identify and block links to malicious sites and payloads. IP Reputation and anti-botnet services prevent botnet communications, and block DDoS attacks from known sources.

SaaS and Data Security

SaaS and Data Security Services address numerous security use cases across application usage as well as overall data security. This service consists of Data Leak Prevention (DLP) which ensures data visibility, management, and protection (including blocking exfiltration) across networks, clouds, and users, while simplifying compliance and privacy implementations. The FortiGuard Data Loss Prevention Service provides advanced data protection by using real-time data classification and pattern matching to identify sensitive information. It offers comprehensive monitoring and control over data movement, ensuring that sensitive data is not inadvertently or maliciously transmitted outside the organization. Additionally, The FortiGuard Data Loss Prevention Service facilitates compliance with various regulatory requirements by automating the enforcement of data security policies and providing detailed reporting and audit trails.

Zero-Day Threat Prevention

Zero-day threat prevention entails Fortinet's AI-based inline malware prevention, our most advanced sandbox service, to analyze and block unknown files in real-time, offering sub-second protection against zero-day and sophisticated threats across all NGFWs. The service also has a built-in MITRE ATT&CK® matrix to accelerate investigations. The service focuses on comprehensive defense by blocking unknown threats while streamlining incident response efforts and reducing security overhead.

OT Security

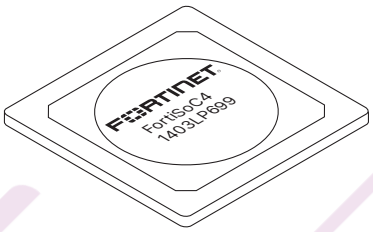
The service provides OT detection, OT vulnerability correlation, virtual patching, OT signatures, and industry-specific protocol decoders for overall robust defense of OT environments and devices.

Secure Any Edge at Any Scale

Powered by Security Processing Unit (SPU)

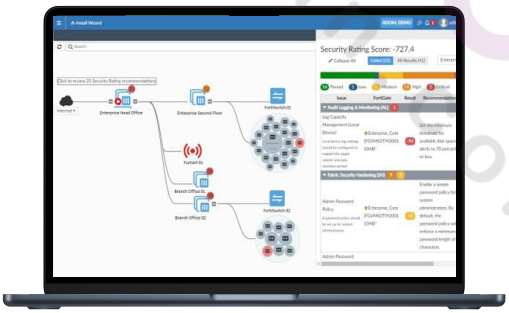
Traditional firewalls cannot protect against today's content- and connection-based threats because they rely on off-the-shelf hardware and general-purpose CPUs, causing a dangerous performance gap. Fortinet's custom SPU processors deliver the power you need—up to 520Gbps—to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

ASIC Advantage



Secure SD-WAN ASIC SOC4

- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Delivers industry's fastest application identification and steering for efficient business operations
- Accelerates IPsec VPN performance for best user experience on direct internet access
- Enables best of breed NGFW Security and Deep SSL Inspection with high performance
- Extends security to access layer to enable SD-Branch transformation with accelerated and integrated switch and access point connectivity



Intuitive view and clear insights into network security posture with FortiManager

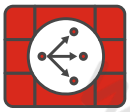
Centralized Network and Security Management at Scale

FortiManager, the centralized management solution from Fortinet, enables integrated management of the Fortinet security fabric, including devices like FortiGate, FortiSwitch, and FortiAP. It simplifies and automates the oversight of network and security functions across diverse environments, serving as the fundamental component for deploying Hybrid Mesh Firewalls.

Use Cases

Perimeter Protection

- Inspect and control incoming and outgoing traffic based on defined security policies
- FortiGuard AI-powered Security Services—natively integrated with your NGFW—secures your web, content, and devices, and proactively protects networks from ransomware and sophisticated cyberattacks
- Real-time SSL inspection (including TLS 1.3) provides full visibility into users, devices, and applications across the attack surface
- Fortinet's patented SPU (Security Processing Unit) with converged security and networking technologies provides accelerated performance, protection, and energy efficiency



Secure SD-WAN

- FortiGate enables best-of-breed WAN Edge with integrated SD-WAN, WAN optimization, security, and unified management from a single FortiOS operating system
- FortiGate, built on a patented SD-WAN based ASIC, delivers faster applications identification which avoids delay in accessing applications and accelerates overlay performance regardless locations
- Enhances work-from-anywhere with a comprehensive SASE solution by integrating cloud-delivered SD-WAN with Security Service Edge (SSE)
- Achieves operational efficiencies at any scale through automation, deep analytics, and self-healing

Secure Branch

- The Fortinet single Security Fabric platform enables FortiGate NGFWs to automatically discover and secure IoT devices for faster branch onboarding
- Fully integrated with FortiSwitch ethernet switches and FortiAP access points, FortiGate easily extends security to WAN, LAN, and WLAN at branch offices for unified protection and reliable connectivity
- FortiGate and Fortinet products work seamlessly with FortiManager that gives IT teams centralized visibility to simplify management across locations
- FortiGate HA support ensures continuous network protection and minimizes downtime in the event of hardware failures or network disruptions

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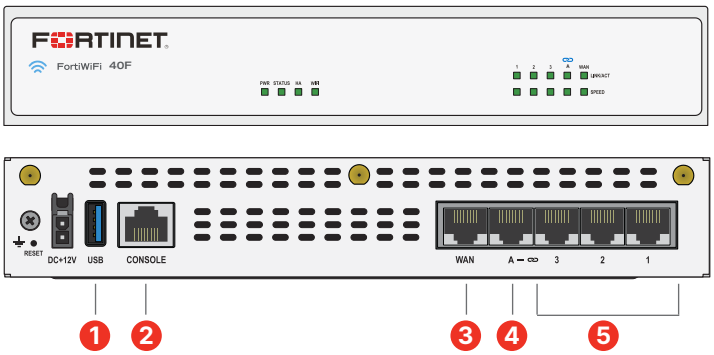
Hardware

FortiGate FortiWifi 40F Series



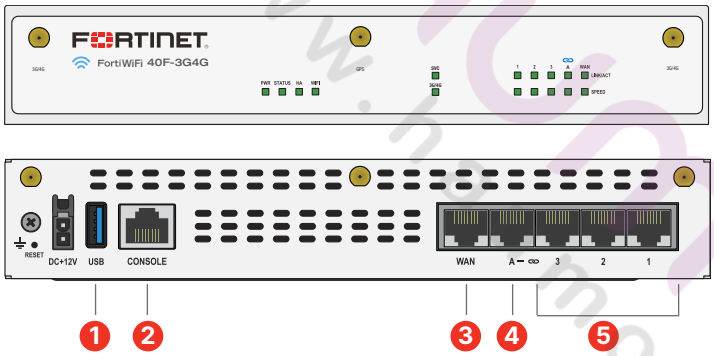
Interfaces

1. 1 x USB Port
2. 1 x Console Port
3. 1 x GE RJ45 WAN Port
4. 1 x GE RJ45 FortiLink Port
5. 3 x GE RJ45 Ethernet Ports

Hardware Features

SoC4 | DESKTOP | a/b/g/n/ac-W2/ax

FortiGate FortiWifi 40F-3G4G



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Hardware Features

SoC4 | DESKTOP | 3G4G/LTE | a/b/g/n/ac-W2/ax

Compact and Reliable Form Factor

Designed for small environments, you can place it on a desktop or wall-mount it. It is small, lightweight, yet highly reliable with a superior MTBF (Mean Time Between Failure), minimizing the chance of a network disruption.

Access Layer Security

FortiLink protocol enables you to converge security and the network access by integrating the FortiSwitch into the FortiGate as a logical extension of the NGFW. These FortiLink enabled ports can be reconfigured as regular ports as needed.

Specifications

	FORTIGATE 40F	FORTIWIFI 40F	FORTIGATE 40F-3G4G	FORTIWIFI 40F-3G4G
Interfaces and Modules				
Hardware Accelerated GE RJ45 WAN / DMZ Ports	1	1	1	1
Hardware Accelerated GE RJ45 Internal Ports	3	3	3	3
Hardware Accelerated GE RJ45 FortiLink Ports (Default)	1	1	1	1
Hardware Accelerated GE RJ45 PoE/+ Ports	0	0	0	0
Cellular Modem	-	-	3G4G LTE	3G4G LTE
Wireless Interface	0	Single Radio (2.4GHz/5GHz) 802.11 /a/b/g/n/ac-W2	0	Single Radio (2.4GHz/5GHz), 802.11 a/b/g/n/ac-W2
Antenna Ports (SMA)	0	3	3	6
USB Ports	1	1	1	1
Console Port (RJ45)	1	1	1	1
SIM Slots (Nano SIM)	0	0	2	2
Onboard Storage	0	0	0	0
Included Transceivers	0	0	0	0
System Performance — Enterprise Traffic Mix				
IPS Throughput [2]	1 Gbps			
NGFW Throughput [2, 4]	800 Mbps			
Threat Protection Throughput [2, 5]	600 Mbps			
System Performance and Capacity				
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	5 / 5 / 5 Gbps			
Firewall Latency (64 byte, UDP)	2.97 µs			
Firewall Throughput (Packet per Second)	7.5 Mpps			
Concurrent Sessions (TCP)	700 000			
New Sessions/Second (TCP)	35 000			
Firewall Policies	2000			
IPsec VPN Throughput (512 byte) [1]	4.4 Gbps			
Gateway-to-Gateway IPsec VPN Tunnels	200			
Client-to-Gateway IPsec VPN Tunnels	250			
SSL-VPN Throughput[6]	490 Mbps			
Concurrent SSL-VPN Users[6] (Recommended Maximum, Tunnel Mode)	200			
SSL Inspection Throughput (IPS, avg. HTTPS) [3]	310 Mbps			
SSL Inspection CPS (IPS, avg. HTTPS) [3]	320			
SSL Inspection Concurrent Session (IPS, avg. HTTPS) [3]	55 000			
Application Control Throughput (HTTP 64K) [2]	990 Mbps			
CAPWAP Throughput (HTTP 64K)	3.5 Gbps			
Virtual Domains (Default / Maximum)	10 / 10			
Maximum Number of FortiSwitches Supported	8			
Maximum Number of FortiAPs (Total / Tunnel)	16 / 8			
Maximum Number of FortiTokens	500			
High Availability Configurations	Active-Active, Active-Passive, Clustering			

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 and Malware Protection enabled.

[6] SSL VPN not supported on FortiOS 7.6.0 and above.

Specifications

	FORTIGATE 40F	FORTIWIFI 40F	FORTIGATE 40F-3G4G	FORTIWIFI 40F-3G4G
Dimensions and Power				
Height x Width x Length (inches)	1.5 × 8.5 × 6.3		1.6 × 8.5 × 6.3	
Height x Width x Length (mm)	38.5 × 216 × 160		40.5 × 216 × 160	
Weight	2.2 lbs (1 kg)		2.2 lbs (1 kg)	
Form Factor (supports EIA/non-EIA standards)	Desktop		Desktop	
Input Rating	12Vdc, 3A		12Vdc, 3A	
Power Required	Powered by External DC Power Adapter, 100–240V AC, 50/60 Hz		Powered by external DC power adapter 100-240V AC, 50/60 Hz	
Current (Maximum)	100V AC / 0.2A, 240V AC / 0.1A		100V AC / 0.3A, 240V AC / 0.2A	
Power Consumption (Average / Maximum)	7.74 W / 9.46 W	14.6 W / 16.6 W	15.8 W / 18.6 W	18.6 W / 19.8 W
Heat Dissipation	52.55 BTU/h	56.64 BTU/h	63.5 BTU/h	67.6 BTU/h
Operating Environment and Certifications				
Operating Temperature	32°F to 104°F (0°C to 40°C)			
Storage Temperature	-31°F to 158°F (-35°C to 70°C)			
Humidity	10% to 90% non-condensing			
Noise Level	Fanless 0 dBA			
Operating Altitude	Up to 7400 ft (2250 m)			
Compliance	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB			
Certifications	USGv6/IPv6			
Radio Specifications				
Multiple (MU) MIMO	N/A	3 × 3	N/A	3 × 3
Maximum Wi-Fi Speeds	N/A	1300 Mbps @ 5 GHz, 450 Mbps @ 2.4 GHz	N/A	1300 Mbps @ 5 GHz, 450 Mbps @ 2.4 GHz
Maximum Tx Power	N/A	20 dBm	N/A	20 dBm
Antenna Gain	N/A	3.5 dBi @ 5GHz, 5 dBi @ 2.4 GHz	N/A	3.5 dBi @ 5GHz, 5 dBi @ 2.4 GHz
3G4G Modem				
Maximum Tx Power	N/A		20 dBm	
Regions	N/A		All Regions	
Modem Model	N/A		Sierra Wireless EM7565 (2 SIM Slots, Active/Passive)	
LTE Category	N/A		CAT-12	
LTE Bands	N/A		B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42, B43, B46, B48, B66	
UMTS/HSPA+	N/A		B1, B2, B4, B5, B6, B8, B9, B19	
WCDMA	N/A		-	
CDMA 1xRTT/EV-DO Rev A	N/A		-	
GSM/GPRS/EDGE	N/A		-	
Module Certifications	N/A		FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	
Diversity	N/A		Yes	
MIMO	N/A		Yes	
GNSS Bias	N/A		Yes	

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Subscriptions

Service Category	Service Offering	A-la-carte	Bundles		
			Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiGuard Security Services	IPS — IPS, Malicious/Botnet URLs	•	•	•	•
	Anti-Malware Protection (AMP)—AV, Botnet Domains, Mobile Malware, Virus Outbreak Protection, Content Disarm and Reconstruct [3], AI-based Heuristic AV, FortiGate Cloud Sandbox	•	•	•	•
	URL, DNS and Video Filtering — URL, DNS and Video [3] Filtering, Malicious Certificate	•	•	•	
	Anti-Spam		•	•	
	AI-based Inline Malware Prevention [3]	•	•		
	Data Loss Prevention (DLP) [1]	•	•		
	Attack Surface Security — IoT Device Detection, IoT Vulnerability Correlation and Virtual Patching, Security Rating, Outbreak Check	•	•		
	OT Security—OT Device Detection, OT vulnerability correlation and Virtual Patching, OT Application Control and IPS [1]	•			
	Application Control		included with FortiCare Subscription		
	Inline CASB [3]		included with FortiCare Subscription		
SD-WAN and SASE Services	SD-WAN Underlay Bandwidth and Quality Monitoring	•			
	SD-WAN Overlay-as-a-Service	•			
	SD-WAN Connector for FortiSASE Secure Private Access	•			
	SASE connector for FortiSASE Secure Edge Management (with 10Mbps Bandwidth) [2]	•			
NOC and SOC Services	FortiConverter Service for one time configuration conversion	•	•		
	Managed FortiGate Service—available 24×7, with Fortinet NOC experts performing device setup, network, and policy change management	•			
	FortiGate Cloud—Management, Analysis, and One Year Log Retention	•			
	FortiManager Cloud	•			
	FortiAnalyzer Cloud	•			
	FortiGuard SOCaaS—24×7 cloud-based managed log monitoring, incident triage, and SOC escalation service	•			
Hardware and Software Support	FortiCare Essentials [2]	•			
	FortiCare Premium	•	•	•	•
	FortiCare Elite	•			
Base Services	Device/OS Detection, GeoIPs, Trusted CA Certificates, Internet Services and Botnet IPs, DDNS (v4/v6), Local Protection, PSIRT Check, Anti-Phishing		included with FortiCare Subscription		

1. Full features available when running FortiOS 7.4.1.
2. Desktop Models only.
3. Not available for FortiGate/FortiWiFi 40F, 60E, 60F, 80E, and 90E series from 7.4.4 onwards.

FortiGuard Bundles

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.

FortiCare Services

Fortinet prioritizes customer success through FortiCare Services, optimizing the Fortinet Security Fabric solution. Our comprehensive lifecycle services include Design, Deploy, Operate, Optimize, and Evolve. The FortiCare Elite, one of the service variants, offers heightened SLAs and swift issue resolution with a dedicated support team. This advanced support option includes an Extended End-of-Engineering-Support of 18 months, providing flexibility. Access the intuitive FortiCare Elite Portal for a unified view of device and security health, streamlining operational efficiency and maximizing Fortinet deployment performance.

Ordering Information

Product	SKU	Description
FortiGate 40F	FG-40F	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports).
FortiWiFi 40F	FWF-40F-[RC]	5x GE RJ45 ports (including 4x Internal Ports, 1x WAN Ports), Wireless (802.11a/b/g/n/ac-W2).
FortiGate 40F-3G4G	FG-40F-3G4G	5x GE RJ45 ports (Including 1x WAN port, 4x Switch ports) with Embedded 3G/4G/LTE wireless wan module, external SMA WWAN antennas included.
FortiWiFi 40F-3G4G	FWF-40F-3G4G-[RC]	5x GE RJ45 ports (Including 1x WAN port, 4x Switch ports) with Embedded 3G/4G/LTE wireless wan module, Wireless (802.11a/b/g/n/ac-W2), external SMA WWAN and wireless antennas included.
Optional Accessories		
Rack Mount Tray	SP-RACKTRAY-02	Rack mount tray for all FortiGate E series and F series desktop models are backwards compatible with SP-RackTray-01. For list of compatible FortiGate products, visit our Documentation website, docs.fortinet.com
AC Power Adaptor	SP-FG-40F-PA-10(-XX)	Pack of 10 AC power adaptors for FG/FWF-40F, come with interchangeable power plugs. (XX=various countries code).
Wall Mount Kits	SP-FG60F-MOUNT-20	Pack of 20 wall mount kits for FG/FWF-40F series, FG/FWF-60F series, FG-80F, FG-81F and FG-80F-Bypass.

[RC] = regional code: A, B, D, E, F, I, J, N, P, S, V, and Y

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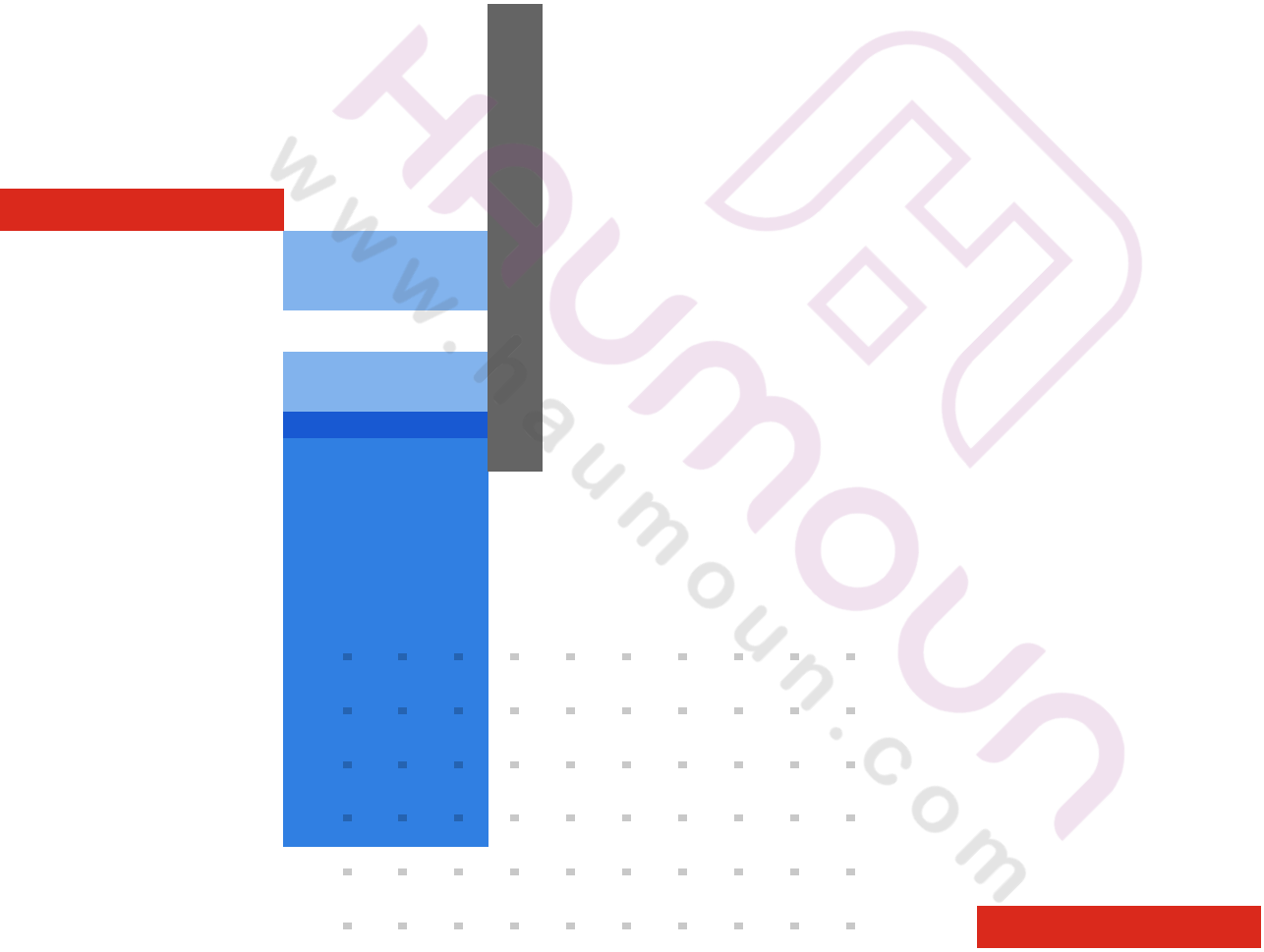
Fortinet Corporate Social Responsibility Policy

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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