

FortiOS Carrier

Carrier-Grade
Security Solutions



Securing Carrier Networks

FORTINET™

Multi-Threat Security and Content Protection

FortiOS™ Carrier security solutions utilize a combination of signature, anomaly, behavioral and heuristic detection engines to provide real-time multi-layered security. Fortinet's FortiOS Carrier provides a high-performance, scalable solution to detect and eliminate a wide spectrum of attacks including blended threats, intrusion attempts, viruses, trojans, worms, spyware, grayware, adware and denials-of-service.

Core Network Protection



Carrier-grade GTP Firewall:

- GTP Profile associated with Firewall policy
- 3GPP 29.060 version 6.9.0

Transparent mode MPLS:

- Intrusion Protection System (IPS) scanning of MPLS encapsulated traffic

MMS / IMS Protection



MMS Antivirus / Antispam:

- MM1, MM3, MM4, MM7 interfaces
- Reporting based on MSISDN and user agent

Secure Next Generation networks:

- SIP Signalling firewall for NGN/IMS networks
- Supports SIP/SDP and ALG driven NAT/NAPT

Client Protection



Cyber crime and network attacks pose serious threats to subscribers that can lead to service outages, customer dissatisfaction and increased support costs. FortiOS Carrier provides protection for client devices such as PC's, basic wireless handsets and Windows Mobile and Symbian OS based smartphones.

Protection Profiles



Associated on a per MISDN / per user basis.

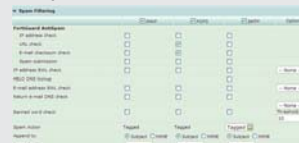
The protection profile provides:

- Antivirus / Antispam
- URL Categorization
- Intrusion Protection (IPS)
- Instant Messenger control

Antivirus Protection Profile



Antispam Protection Profile



Parental Control Application



Associated on a per MISDN / per user basis.

The parental control application provides:

- Filter Web URL categories
- Content Rating / Blocking
- Opt-in / Opt-out depending on the default protection profile settings

Category	Allow	Block	Log	Allow Override
Potentially Liable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Commercial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potentially Non-productive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potentially Harmful Computing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Instant Security Warning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Malware	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spamware	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business Critical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Classification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cached Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multimedia Search	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Image Search	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Audio Search	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Video Search	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream URL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FortiOS Carrier Security Platforms

Fortinet's FortiOS Carrier security platforms provide end-to-end mobile network and device protection. FortiGate network-based ASIC-accelerated hardware platforms, available as integrated platforms or modular ATCA based platforms scale to meet the capacity and performance requirements of the largest networks. FortiOS Carrier security engines can be used separately or together to enable a comprehensive security solution based on the network and service requirements. Also available is FortiClient endpoint protection software that utilizes the power of Fortinet's sophisticated security engines to protect mobile and personal computing devices and to protect the network from malware propagated by client devices.

FortiClient Mobile / PC Software



FortiGate Integrated Security Platforms Powered by FortiOS Carrier



FortiGate-3600A



FortiGate-3810A

FortiGate-3810A AMC Expansion Modules



ADM-XB2



ASM-FB4

2-Port 10-Gigabit Ethernet

4-Port Gigabit Ethernet

FortiGate Modular ATCA Security Platforms Powered by FortiOS Carrier

Advanced TCA



FortiGate-5020



FortiGate-5050



FortiGate-5140

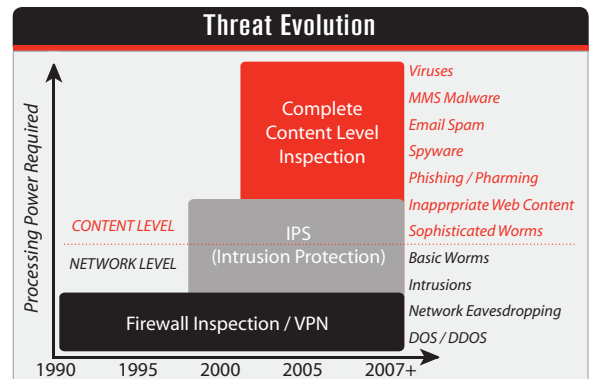
Fortinet Means Carrier-Grade Security

FortiOS Carrier Security Solutions deliver the performance, reliability and scalability to protect next-generation IP based networks and services.

Carrier Network Internet Protocol (IP) Services

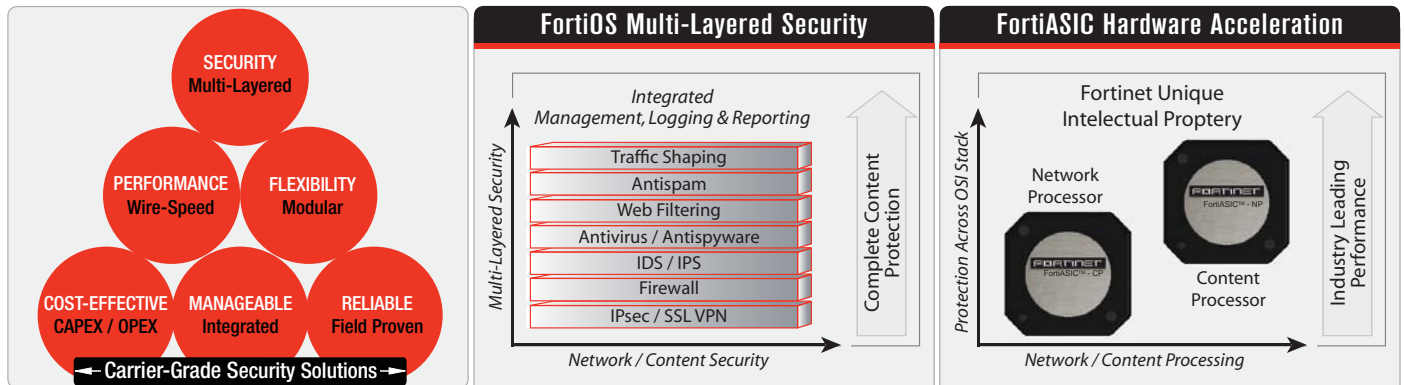
Carrier networks are evolving to an all-IP infrastructure capable of delivering a vast array of new multimedia services to drive revenue growth. IP infrastructure also allows carriers to reduce capital costs, speed time-to-market and gain competitive advantage. However IP networks also present new challenges. Maintaining quality-of-service, reliability and security equivalent to circuit-switched networks is critical to the success and profitability of new IP-based services.

IP networks are inherently open and therefore a target of hackers and criminals. Theft of services, identity fraud, and denial-of-service attacks are common. Spam, spyware, grayware, adware and inappropriate content clog networks and impact customer satisfaction. Subscribers expect carrier IP-based services to be reliable and secure. Managing service quality, support costs and revenue assurance is critical.



Fortinet FortiOS™ Carrier

Fortinet FortiOS Carrier platforms provide a fully integrated and complete solution to detect and eliminate a wide spectrum of attacks at all layers of the IP infrastructure. Patented ASIC-accelerated hardware platforms powered by Fortinet's award winning FortiOS, enable an integrated portfolio of UTM (Unified Threat Management) security services that deliver the highest level of multi-threat protection with industry-leading performance and scalability. Fortinet solutions are fully IPv6 compatible and support "dual-stack" and "IPv4 tunneling" for seamless transition to IPv6. The fully integrated FortiManager/ FortiAnalyzer unified management, logging and reporting systems make deployment, maintenance and operation easy and cost-effective.



FortiGuard™ Distribution Network / Update Manager

FortiGuard is a global network of redundant high speed database servers that deliver real-time signature updates. FortiGuard is configurable in a hierarchical architecture where signature updates are cached in real-time from the Fortinet global database to a locally hosted service provider database. This enables service providers to flexibly customize their protection configuration while maximizing performance, ensuring security, and sustaining service levels. FortiGuard provides real-time 'push / pull' update services for Antivirus, Content Filtering, Antispam, System Software Updates and Intrusion Prevention Services.



Global Virus Research Team

Fortinet's Antivirus security services are created, updated and managed by a global team of Fortinet security professionals working around-the-clock, seven days-a-week to ensure that the latest attacks are detected and blocked before they can harm your corporate resources or infect your end-user computing devices. Fortinet provides the fastest Antivirus signature response times in the industry.



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