



# High performance security for low-latency networks

Fortinet® solutions for the  
financial services sector



Financial Services

Fortinet solutions protect your network and proprietary data without compromising the performance of your high-speed transactional environment.

Fortinet consolidated security platforms offer control, visibility and 'single pane of glass' management for your low-latency network. In today's competitive, economic and regulatory environment, it's the most secure investment you can make.



Information is the life-blood of global finance, and financial services organizations place more demands on their information systems than almost any other industry.

Data security, privacy and integrity are critical, both commercially and legally. But in a competitive environment where opportunities appear and disappear in microseconds, speed, agility, and responsiveness are equally essential.

Many financial services organizations struggle with the competing demands of security and speed. What's more, the industry is facing a period of challenging and unpredictable economic circumstances, compounded by the likelihood of dramatic and on-going changes to the regulatory environment.

Virtualization, application consolidation, offshoring and outsourcing, combined with ever-growing sophistication in the online marketplace, are all creating new and exciting opportunities for an industry that thrives on change and innovation.

But these new opportunities bring new risks. Online fraud, identity theft, spam, spear phishing, advanced persistent threats (APTs), and a host of other attacks are evolving alongside business technologies. And with more and more businesses going online, the scale of the associated risk increases daily.

**More than ever, financial services organizations need to ensure that their networks and data, from their data center to their branch offices, are protected by a solution that delivers:**

- > Performance
- > Visibility
- > Control
- > Compliance
- > Cost-efficiency

## Performance is not negotiable...

Why compromise network speed for network security?

Throughout the financial services sector, network security is crucial to effective data management, business continuity and regulatory compliance. Network speed is essential for maintaining competitive advantage.

In a distributed or high-volume data environment, compromised network performance can degrade customer service, causing delays and frustration. In an electronic trading situation, several microseconds of network latency can cost millions of dollars a day.

Network security is a business-critical function, but with a typical firewall adding up to 20% more network latency, any investment improving firewall performance should yield substantial returns.

FortiGate® consolidated security appliances embed purpose-built ASIC processors and a suite of native, integrated application security engines to deliver low-latency, zero packet-loss firewalling and traffic shaping at wire speeds.

In gigabit Ethernet (GbE) and 10-GbE environments, FortiGate security appliances have consistently reduced latency from an industry average of 70 to 100 microseconds, to less than 10 microseconds. When deployed in conjunction with FortiSwitch™ switching platforms, Fortinet technology delivers better performance than any other vendor, with latency of less than 2 microseconds.

In addition, the platform's unique hardware-accelerated packet multicast capability enables secure, accelerated, zero packet-loss transmission of third party market data feeds to unlimited recipients without compromising security or compliance.

With Fortinet, you get protection and performance without compromise.

# Reduce risk through improved compliance...

How much time and money do you waste juggling risk versus compliance?

Fortinet's security suite offers more effective automated compliance protocols to help you lower your risk exposure without increasing costs. It provides a simplified security architecture, automating and enforcing controls to protect your critical data sources and applications, while ensuring compliance reporting for important regulations such as the Payment Card Industry Data Security Standard (PCI DSS), Sarbanes-Oxley (SOX), and the Gramm-Leach-Bliley Act (GLBA).

The Fortinet suite of network and database security solutions can be mapped to PCI DSS requirements to ensure compliance with the Cardholder Information Security Program, along with security of cardholder, cash machine, and other sensitive data across both public and private networks. Fortinet can deliver comprehensive security to every point of your network including branch offices, cash machines, and mobile endpoints.

For data security, Fortinet offers the FortiDB™ database vulnerability assessment, reporting, monitoring and auditing tool. Fortinet's automatic database discovery system finds all databases on your

network – including those across subnet and WAN boundaries – and deploys hundreds of pre-built policies covering known exploits, configuration weaknesses, operating system issues, operational risks, and data access privileges. This helps to ensure compliance with policy, regulatory, and best-practices requirements while automatic monitoring and updates ensure that protections stay up to date.

FortiDB's 24/7 activity monitoring and auditing captures and delivers auditing records of all forms of database activity for complete and accurate audit trails.

By leveraging Fortinet's security suite, you can fundamentally enhance your security posture, safeguarding compliance to critical regulations and promoting your organization's integrity and public commitment to data protection.

By consolidating your network and database security with Fortinet, you can meet your obligations around privacy, security, accessibility, control, monitoring and business continuity without surrendering performance or adding cost or complexity to the management and control of your networks or databases.

# Get visibility and take control...

How much control do you have over your network?

Your business may also be vulnerable to internal threats. Inappropriate use of network resources can expose your business to risk of prosecution, litigation, fraud and theft. Unrestricted Internet usage can hog network bandwidth, making business-critical applications less responsive and reducing employee productivity.

Most firewall solutions offer some degree of generic reporting on network traffic. FortiGate platforms provide complete visibility and control of network traffic through granular security policy definition and enforcement. Fortinet's appliances use application control to classify traffic by application source and user, not just by port and protocol. Application control can also identify and control applications allowed to run on endpoints, which endpoints are allowed to send traffic through the network, and which websites users are allowed visit.

FortiManager™ appliances provide effective management of any size Fortinet deployment, from several devices to thousands of appliances and FortiClient™ endpoint security agents. Centralized policy-based provisioning, configuration, update management and end-to-end monitoring allow you to easily secure your network from core to perimeter to endpoint.

For even greater visibility, FortiAnalyzer™ appliances provide real-time logging, analysis, and reporting of network threats and activity, giving you a single view of your security status. FortiAnalyzer platforms include more than 300 customizable reports which can be used to monitor acceptable use policies and assure regulatory compliance. FortiAnalyzer also allows you to filter and review records for analysis of traffic, event, virus, attack, web content, and email data.



# The smart money's on consolidation...

Is there a smarter way to manage your security infrastructure and achieve more with less?

The legacy of your best-of-breed security strategy consumes huge amounts of money, resources and management time. Disparate security devices and operating systems come with multiple maintenance and support contracts, multiple upgrade and replacement schedules, multiple licensing obligations, multiple training programs and management resources. All of these add to the cost and complexity of your security infrastructure, and can have a serious negative impact on network up-time, availability and performance.

Now is the time to streamline your network security infrastructure for smoother operation and lower management costs.

FortiGate consolidated security appliances run a single, security-hardened operating system on purpose-built hardware. Modular scalability and per-appliance licensing simplify procurement and management while keeping costs down. FortiASIC™ accelerated end-to-end security functionality exceeds security and performance requirements for your data center, branch offices and remote users.

Fortinet's security platforms are backed by FortiGuard security subscription services which deliver regular updates from Fortinet's expert in-house security research team, including threat discovery and responsible disclosure of new threats. Fortinet's per-device subscription services deliver global real-time security updates 24/7 with industry-leading response times to new and emerging threats targeting your network, content and mobile devices.

Fortinet consolidated security platforms replace multiple security point solutions, drastically reducing the complexity and cost of network security deployment and management.

And because Fortinet appliances support thousands of virtual security domains, a single appliance can consolidate multiple physical devices into a common infrastructure, simultaneously reducing rack space and energy requirements.

In addition, where extra flexibility is needed to protect virtual environments or rapidly changing network architectures, Fortinet virtual appliances offer the same security features as Fortinet hardware-based appliances. A combination of virtual and hardware-based appliances can be deployed and managed from a single FortiManager console.

One platform, one license, one maintenance and support contract, and one training program, all from a single vendor. Fortinet offers a more streamlined and efficient security solution without compromising the performance or integrity of your network.





More than 100,000 organizations, including more than half of the global Fortune 500, trust Fortinet to secure their networks and critical information.

**Fortinet's highly scalable, flexible architecture allows you to deploy the security you need for your unique environment. Fortinet protections include:**

- > Next-Generation Firewall
  - Application Control
  - Intrusion Prevention
  - Identity-based Security Policies
  - SSL-encrypted Traffic Inspection
- > Data Loss Prevention
- > Antivirus / Antimalware
- > Web Filtering
- > Antispam
- > VPN (IPsec & SSL)
- > Dual-stack IPv4 / IPv6 Support
- > Endpoint Network Access Control (NAC)
- > WAN Optimization
- > Endpoint Security
- > Messaging Security
- > XML & Web Application Firewall
- > Database Security

## The Fortinet advantage

**Integrated, high-performance security, optimized for your financial services organization. No other security vendor can match Fortinet's unique mix of technology, performance, and low total cost of ownership.**

- > Highly scalable protection against network and content-level threats secure your extended network - from endpoints, to the perimeter and the core, including databases and applications.
- > Resilient security without degrading performance of critical applications, network availability or uptime.
- > ASIC-accelerated throughput delivers transactions up to 400% faster than our closest competitor.
- > In-house global and proactive FortiGuard® services deliver real-time protection against known and unknown security threats.
- > Increase control and simplify data center infrastructure using virtual domains (VDOMs) to create hundreds or even thousands of separate security environments on a single FortiGate appliance.
- > Database security and compliance products with pre-installed best practices to meet security compliance requirements of regulations such as PCI DSS, SOX, and GLBA.
- > Extensive security zone capabilities for granular control of network and application access.
- > Traffic shaping and application control of thousands of applications preserve network bandwidth and help control inappropriate network usage.
- > Centralized management and reporting including extensive logging and archiving capabilities simplify management, policy enforcement and regulatory compliance.
- > Unique security platform reduces management complexity and Capex/Opex for lower TCO.
- > Simple per-device/unlimited-user licensing reduces costs for best price/performance.
- > Fortinet virtual appliances offer the same security features as physical appliances.

### About Fortinet

Fortinet is a leading provider of network security appliances and the market leader in consolidated threat management. Our certifications, awards and customer references reflect our ongoing commitment to innovation.



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