The challenge

The expectation to do more with less is a direct result of our business environment today. Enterprises of all sizes are reevaluating their IT infrastructure and procurement strategy with goals of eliminating costs wherever possible. At the same time, they are also under pressure to increase data and network access to employees, partners, customers and vendors, while reducing the risk of data breaches.

Businesses are also under tremendous pressure to select integrated or consolidated technologies to eliminate the need for separate deployment and management. Many security investments are reactive in nature, meaning that with the advent of a new type of network or application threat, organizations realize the limitations and add protection by adding another application. This incremental approach requires independent systems and management consoles for singular functions and significant investments by IT operations to deploy, configure and manage each technology. To address these demands, organizations need security solutions that drive down costs while increasing security.

How HP ProCurve and Fortinet help you meet the challenge

Fortinet and HP ProCurve have integrated the Fortinet solution into the HP ProActive defense framework for customers who prefer market-leading solutions. The Fortinet solution can be integrated into the HP chassis based solutions to provide a broad range of perimeter defense.

In addition, the Fortinet solution can send alerts to the HP Network Immunity Manager for viewing and remediation on the network. HP threat management products, such as HP Network Immunity Manager and the HP Threat Management Services Module, can also sit behind the Fortinet solution to provide in-depth defense with items such a behavioral threat analysis and interior zoning, without adding significant management overhead.
Overview

Fortinet’s FortiGate-One is a security-hardened, purpose-built network and application security solution that integrates high-performance protection against dynamic security threats while simplifying the IT security infrastructure. HP ProCurve customers can now deploy a single security blade with integrated firewall, anti-malware, internet provider security (IPS), virtual private network (VPN), anti-spam, application control, web filtering, and data loss prevention.

FortiGate-One addresses HP ProCurve customer needs for uncompromising protection in an increasingly bandwidth-intensive network environment. It prevents inbound and outbound malicious or unauthorized traffic from leaving the HP ProCurve switch. FortiGate-One delivers increased network and application security, improved policy compliance, and reduced utilization of valuable local area network (LAN) and wireless area network (WAN) resources.

Solution architecture

Large enterprise branch office deployment

The diagram below represents a large enterprise with a remote location deployment with the FortiGate-One on an HP ProCurve blade and dedicated FortiGate platforms in a headquarters, large regional office or small remote office. Enterprises can deploy the FortiGate-One blade at the branch/remote location to enable advanced security capabilities deeper into their network and to restrict unwanted application traffic from utilizing their resources. They have the flexibility to choose from a wide range of security technologies and can deploy all or some of the FortiGate technologies to meet their exact needs.

In the network core, they can deploy a high-performance FortiGate appliance to benefit from Fortinet’s custom application-specific integrated circuit (ASIC)-accelerated performance to address specific performance requirements. Should the interior performance requirements be less demanding, customers can reduce their risk by using an interior zoning firewall from HP. At a small branch office or remote office, they can utilize all of the security technologies included in the FortiGate-One software to protect against a wide range of threats. The headquarters deployment focuses on a few core technologies to provide complementary protection to existing security products and to improve network performance with dynamic routing of IP traffic.

FortiManager and FortiAnalyzer provide centralized management, reporting, analysis and content archiving for distributed FortiGate deployments (both FortiGate-One on an HP ProCurve blade and FortiGate dedicated appliances).

Typical K–12 education deployment

In a typical K–12 education deployment using FortiGate-One, the school district insets a FortiGate-One blade in a HP ProCurve switch at the egress point of the schools network. The school sites benefit from both a reduced number of network devices and improved security from features such as Fortinet’s advanced Web filtering to maintain compliance with safe Internet requirements (even for non-district owned computers). The solution and services are similar to the enterprise application, with the schools deploying the specific security technologies they need to protect themselves against a wide range of threats. They deploy dedicated FortiGate security appliances at the edge and in the core of the central office to address specific performance requirements. For this solution customers can consider replacing the interior Fortinet solution with an HP Threat Management Services Module to provide enhanced, in-depth defense by using two firewall vendors.

Solution features

• Integrated protection: Combines multiple security technologies into a single product, including industry-certified firewall, anti-virus/anti-spyware, anti-spam, web filtering, VPN secure sockets layer (SSL) and Internet protocol security (IPSec), and IPS protection. In addition, it includes greater protection spelled out in more detail below.

• Data loss prevention (DLP): Prevents the loss of sensitive, regulated, and propriety data through intentional and accidental means.

• SSL-encrypted traffic inspection: Provides visibility into SSL-encrypted data with the ability to intercept and inspect the data before allowing it to reach its intended destination. SSL inspection applies to both client-oriented SSL traffic as well as inbound traffic intended for web and application servers.

• Application control: Prevents unauthorized application traffic in the network.

• Endpoint network access control: Enables quarantining of systems running FortiGate Endpoint Security technology if they are out of compliance with system health and security policies.

• Dynamic routing support: Supports network segmentation through 802.1q and advanced L3 routing engine including support for IPv4 and IPv6 with border gateway protocol (BGP), open shortest path first (OSPF) and routing information protocol (RIP).

• High availability: Supports fully redundant deployment.
Solution benefits

- **Security**: Proven, integrated protection with the convenience of a blade provides fast deployment and configuration of security technologies across multiple layers of security for a variety of architectures including Web, e-mail, file transfer protocol (FTP), IM/P2P and network news transfer protocol (NNTP).

- **Reduced OpEx (IT costs)**: Eliminates the need to deploy numerous stand-alone security point products such as gateway anti-virus, firewall, intrusion prevention and Web filtering devices. Reduces management complexity and related high cost of ownership.

- **Reduce CapEx (infrastructure costs)**: Integration of multiple standalone devices into a single chassis managed by a single console reduces acquisition and maintenance costs of multiple standalone appliances and multiple management consoles.

- **Proven, integrated protection**: Fortinet continues to share and be a thought of as a leader in the market for integrated security solutions.

- **Increased security**: Integrated, complementary security technologies provide “defense-in-depth” protection against today’s complex threats. Multiple layers of protection reduce potential for attack to successfully evade security countermeasures.

HP ProCurve components

- HP ProCurve switch 54XXzl/82XXzl series
- HP ProCurve One Services zl Module
- HP support and services
- Industry-leading warranty

Fortinet components

**Options**

- Fortinet FortiGate – One Software
- 90-day limited software warranty
- FortiManager centralized management for managing multiple FortiGate-One and FortiGate security platform deployments
- FortiAnalyzer centralized reporting and analysis
- FortiCare support services 24x7 comprehensive support bundled with FortiGuard Security Subscription services, which includes telephone support, and dynamic updates to anti-virus, intrusion prevention, Web filtering, anti-spam and application control services
- Premium support and professional services available
Why HP ProCurve and Fortinet?
Fortinet is the largest privately held security vendor in the world. It has shipped over 450,000 security appliances around the world and has been the largest integrated threat vendor for 14 consecutive quarters. Fortinet’s customer list includes the majority of the Fortune Global 100, as well as thousands of medium and small organizations. Unlike competitors who only provide point products, Fortinet has created an innovative platform that incorporates all the essential security applications and services required to enable a safe and clean communications environment. The Fortinet Global Security Research Team is composed of more than 100 security specialists that produce detection and prevention capabilities within hours after recognition of new attacks and exploits. The Fortinet Global Security Research Team collaborates with many of the world’s threat monitoring organizations such as CERT and SANS to leverage new vulnerability discoveries and works to produce counter measures.

What is HP ProCurve ONE?
Businesses are constantly seeking ways to improve competitiveness, while at the same time reducing costs. You need to enable new applications to support the business, while limiting cost and complexity. Today, you’re forced to choose between integrating multiple appliances through open standards and being limited to a sub-optimal end to end solution from a single vendor.

HP ProCurve’s Open Network Ecosystem (HP ProCurve ONE) allows you to choose from a selection of the best market-leading applications, and to integrate them with your network with the confidence that the solution has already been pre-tested and certified. Should you run into an unforeseen problem, HP ProCurve’s support provides fault isolation assistance, and will work closely with our alliance partner to isolate the cause of an issue and propose a resolution plan.

To find out more about the HP ProCurve One alliance, visit www.procurve.com/one.