



# FortiWeb™

## Web Application Firewall



### Web Application Firewall

Secures web applications to help customers meet compliance requirements



### Web Vulnerability Scanner

Scans, analyzes and detects web application vulnerabilities



### Application Delivery

Assures availability and accelerates performance of critical web applications

### Need for PCI DSS Compliance

Network security threats have evolved to target web-based applications that are the interface to confidential information stored on back-end databases. In response to major security breaches, the credit card industry created the PCI standards. However, ensuring any web-application is free of vulnerabilities is complicated by the ongoing discovery of new vulnerabilities, patching challenges, code revisions, time-to-market pressures, the inherent difficulty of vulnerability identification, and even access to the application code.

### Unmatched Protection for Web Applications

The FortiWeb family of web application firewalls provides specialized, layered application threat protection for medium and large enterprises, application service providers, and SaaS providers. FortiWeb web application protects your web-based applications and internet-facing data from attack and data loss. Using advanced techniques to provide bidirectional protection against sophisticated threats like SQL injection and cross-site scripting, FortiWeb platforms help you prevent identity theft, financial fraud and corporate espionage. FortiWeb delivers the technology you need to monitor and enforce government regulations, industry best practices, and internal policies.

### Accelerate Deployment and Lower Costs

FortiWeb significantly reduces deployment costs by consolidating Web Application Firewall, web traffic acceleration, and application traffic balancing into a single device with no per-user pricing. It drastically reduces the time required to protect your regulated internet-facing data and eases the challenges associated with policy enforcement and regulatory compliance. Its intelligent, application-aware load-balancing and data compression and optimization engine increases application performance, improves resource utilization and application stability while reducing server response times.

### Geo IP Data Analytics

FortiWeb's real time data analysis provides an analytic interface that helps organizations analyze their web application usage from multiple vectors, and maps requests to their geographic location.

DATASHEET



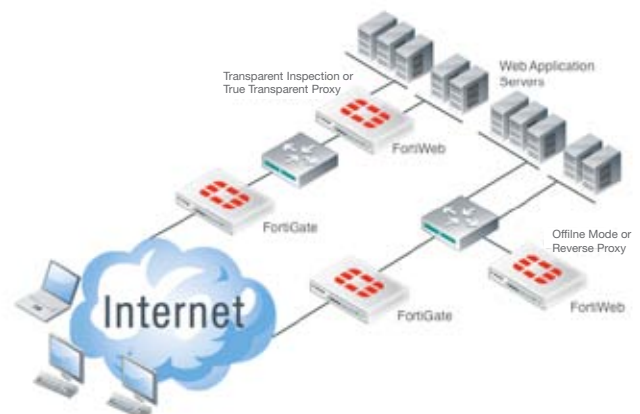
## Unmatched Protection for Web Applications

- ✓ ICSA WAF certified
- ✓ WAF and integrated scanner aid in PCI 6.6 compliance
- ✓ Network and Application layer DoS protection
- ✓ User behavior analysis
- ✓ Geo IP analytics
- ✓ Protection against the OWASP Top 10
- ✓ Periodic updates from FortiGuard® Labs



## FortiWeb Deployment Options

- Inline Transparent – Layer two bridge that does not require network level redesign.
- True Transparent Proxy – Layer two deployment with no need for network level redesign. The traffic is internally terminated to provide more functionality than pure inspection.
- Reverse Proxy – Provides additional capabilities such as URL rewrite and advanced routing capabilities.
- Offline Sniffing – Monitors environments with zero network footprint and latency.



## Flexible Deployment and Efficient Management

- **Multiple deployment options**  
Transparent Inspection and True Transparent Proxy, Reverse Proxy and Offline Allow you to fit FortiWeb into any environment.
- **Auto-Learn Security Profiling**  
Automatically and dynamically build a security model of protected applications by continuously monitoring real time user activity. Eliminate the need for manual configuration of security profiles.
- **Authentication Offload**  
Offload your web server authentication to the FortiWeb platform while supporting different authentication schemes such as Local, LDAP, NTLM and Radius.
- **Policy wizard and pre-defined policies**  
Allows for one click deployments and greatly eases the process of policies creation.
- **High Availability**  
The high availability mode provides configuration synchronization and allows for a network-level fail-over in the event of unexpected outage events. Integrated bypass interfaces provide additional fail open capability for single box deployments.
- **Virtualization**  
Provides a Virtual Appliance for VMware ESX and ESXi 3.5/4.0/4.1 platforms mitigating blind spots in virtual environments.

## Ultimate Protection and Monitoring

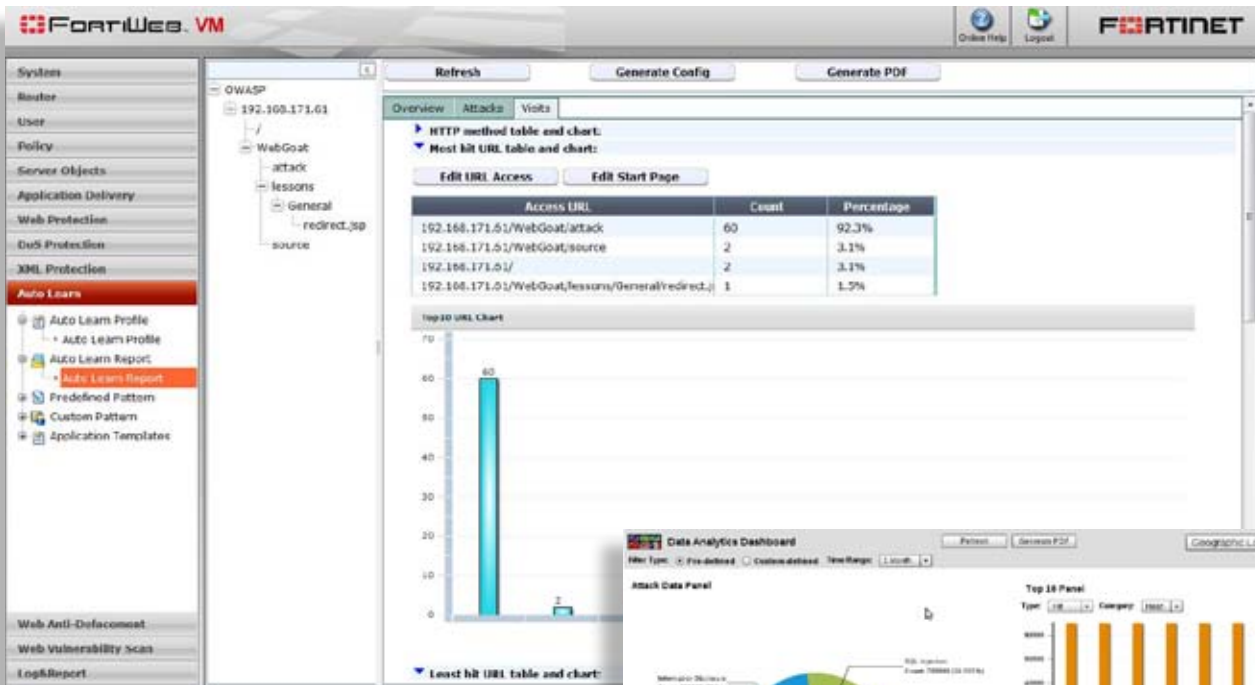
- **Application Layer Vulnerability Protection**  
Provide out of the box protection for the most complex attacks such as SQL Injection, Cross Site Scripting, CSRF and many others. Together with the Auto Learn profiling system and advanced abilities, FortiWeb is able to create rules down to the single application element.
- **Data Leak Prevention**  
Extended monitoring and protection for credit card leakage and application information disclosure by tightly monitoring all outbound traffic. Allow customers to create their own granular signatures and DLP patterns together with predefined rules for any type of events.
- **Application Support**  
Streamlined monitoring and protection for well-known applications and protocols such as Microsoft Exchange, SharePoint, ActiveSync and RPC over HTTP.
- **Anti Web Defacement**  
Unique capabilities for monitoring protected applications for any defacement and ability to automatically and quickly revert to stored version.
- **Vulnerability Assessments**  
Automatically scans and analyzes the protected web applications and detects security weaknesses, potential application known and unknown vulnerabilities to complete a comprehensive solution for PCI DSS.
- **HTTP RFC Compliance Validation**  
FortiWeb blocks any attacks manipulating the HTTP protocol by maintaining strict RFC standards to prevent attacks such as encoding attacks, buffer overflows and other application specific attacks.

## Application Delivery

- **Application Aware Load Balancing**  
Intelligent, application aware layer 7 load balancing eliminates performance bottlenecks, reduces deployment complexity and provides seamless application integration.
- **Data Compression**  
Allows efficient bandwidth utilization and response time to users by compressing data retrieved from servers.
- **SSL Offload**  
With the integration of award winning FortiASIC™ technology, FortiWeb is able to process tens of thousands of web transactions by providing hardware accelerated SSL offloading.

## Aids in Compliance

- **PCI DSS compliance**  
FortiWeb is the only product that provides a Vulnerability Scanner module within the web application firewall that completes a comprehensive solution for PCI DSS requirement 6.6.
- **Protects against OWASP top 10**  
Incorporating a positive and a negative security module based on bidirectional traffic analysis and an embedded behavioral based anomaly detection engine FortiWeb fully protects against the OWASP TOP 10.
- **FortiGuard Labs**  
Utilizing Fortinet's renowned FortiGuard service FortiWeb customers get up to date dynamic protection from the Fortinet Global Security Research Team, which researches and develops protection against known and potential application security threats.



### FortiWeb Auto-Learn Profiling

The Auto-Learn profiling capability is completely transparent and does not require any changes to the application or network architecture. FortiWeb does not scan the application in order to build the profile, but rather analyzes the traffic as it monitors it flowing to the application. By creating a comprehensive security model of the application FortiWeb can now protect against any known or unknown vulnerabilities, zero day attacks.



Analyze user geographic location and web site access based on Hit, Data and Attack vectors.



### FortiWeb Protects Against a Wide Range of Attacks

- |                              |                           |                          |                        |
|------------------------------|---------------------------|--------------------------|------------------------|
| Cross Site Scripting         | Forms Tampering           | Directory Traversal      | WSDL Scanning          |
| SQL Injection                | Hidden Field Manipulation | Site Reconnaissance      | Recursive Payload      |
| Session Hijacking            | Outbound Data Leakage     | Search Engine Hacking    | External Entity Attack |
| Cookie Tampering / Poisoning | HTTP Request Smuggling    | Brute Force Login        | Buffer Overflows       |
| Cross Site Request Forgery   | Remote File Inclusion     | Access Rate Control      | Denial of Service.     |
| Command injection            | Encoding Attacks          | Schema Poisoning         |                        |
| Remote File Inclusion        | Broken Access Control     | XML Parameter Tampering  |                        |
|                              | Forceful Browsing         | XML Intrusion Prevention |                        |

| Technical Specifications   | FortiWeb-400C                                     | FortiWeb-1000C                               | FortiWeb-3000C                      | FortiWeb-4000C                     |
|--|---|--|-------------------------------------|------------------------------------|
| <b>Hardware Specifications</b>   |   |  |                                     |                                    |
| 10/100/1000 Interfaces   | 4   | 4  | 6                                   | 6                                  |
| 1000Base-SX By-Pass Interfaces   | 0   | 0  | 2 (FWB-3000C-FSX)                   | 2                                  |
| USB Interfaces   | 0   | 2  | 4                                   | 4                                  |
| Storage  | 1 TB  | 1 TB   | 2 TB (standard)<br>6 x 1 TB slots   | 2 TB (standard)<br>6 x 1 TB slots  |
| Form Factor  | 1U  | 1U   | 2U                                  | 2U                                 |
| Power Supply   | Standard  | Standard                                     | 2U Hot Swap Redundant               | 2U Hot Swap Redundant              |
| <b>System Performance</b>  |   |  |                                     |                                    |
| Throughput   | 100 Mbps  | 500 Mbps                                     | 1 Gbps                              | 2 Gbps                             |
| Max HTTP transactions per second   | 10,000  | 27,000                                       | 40,000                              | 70,000                             |
| Latency  | Sub-ms  | Sub-ms                                       | Sub-ms                              | Sub-ms                             |
| High Availability  | Active/Passive                                    | Active/Passive                               | Active/Passive                      | Active/Passive                     |
| Application Licenses   | Unlimited   | Unlimited                                    | Unlimited                           | Unlimited                          |
| All performance values are "up to" and vary depending on the system configuration. |   |  |                                     |                                    |
| <b>Dimensions</b>  |   |  |                                     |                                    |
| Height   | 1.7 in (4.4 cm)                                   | 1.69 in (4.3 cm)                             | 3.5 in (8.9 cm)                     | 3.5 in (8.9 cm)                    |
| Width  | 17.1 in (43.5 cm)                                 | 17.09 in (43.4 cm)                           | 17.5 in (44.5 cm)                   | 17.5 in (44.5 cm)                  |
| Length   | 14.3 in (36.4 cm)                                 | 24.7 in (62.71 cm)                           | 29 in (73.7 cm)                     | 29 in (73.7 cm)                    |
| Weight   | 14.15 lb (6.42 kg)                                | 24.2 lb (11 kg)                              | 63 lb (28.6 kg)                     | 63 lb (28.6 kg)                    |
| Rack Mountable   | Yes   | Yes  | Yes                                 | Yes                                |
| <b>Environment</b>   |   |  |                                     |                                    |
| Power Required   | 100-240 VAC, 50-60 Hz, 4.0 Amp max                | 100-240 VAC, 50-60 Hz, 7 Amp max             | 100-240 VAC, 50-60 Hz, 9 Amp max    | 100-240 VAC, 50-60 Hz, 9 Amp max   |
| Power Consumption (AVG)  | 181W  | 189W   | 200W                                | 200W                               |
| Operating Temperature  | 32 – 104 deg F<br>(0 – 40 deg C)                  | 32 – 104 deg F<br>(0 – 40 deg C)             | 32 – 104 deg F<br>(0 – 40 deg C)    | 32 – 104 deg F<br>(0 – 40 deg C)   |
| Storage Temperature  | -13 – 158 deg F<br>(-25 – 70 deg C)               | -40 – 149 deg F<br>(-40 – 65 deg C)          | -40 – 149 deg F<br>(-40 – 65 deg C) | 40 – 149 deg F<br>(-40 – 65 deg C) |
| Humidity   | 10 to 90% non-condensing                          | 5 to 95% non-condensing                      | 5 to 95% non-condensing             | 5 to 95% non-condensing            |
| Compliance   | FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB | FCC Class A Part 15, UL/CB/CUL, C Tick, VCCI |                                     |                                    |

|  | FortiWeb-VM (2 vCPU)        | FortiWeb-VM (4 vCPU) | FortiWeb-VM (8 vCPU) |
|--|-----------------------------|----------------------|----------------------|
| <b>Hardware Specifications</b>             |                             |                      |                      |
| Hypervisors Supported                      | VMware ESXi/ESX 3.5/4.0/4.1 |                      |                      |
| Max vCPUs Supported                        | 2                           | 4                    | 8                    |
| Max vNICs                                  | 4                           |                      |                      |
| Virtual Machine Storage Required (Minimum) | 40 GB                       |                      |                      |
| Virtual Machine Memory Required (Minimum)  | 1024 MB                     |                      |                      |
| <b>System Performance</b>                  |                             |                      |                      |
| HTTP Throughput                            | 100 Mbps                    | 500 Mbps             | 1 Gbps               |
| Max HTTP transactions per second           | 8,000                       | 24,000               | 36,000               |
| Application Licenses                       | Unlimited                   |                      |                      |

Actual performance values may vary depending on the network traffic and system configuration. Performance metrics were observed using a Dell PowerEdge R710 server (2 x Intel Xeon E5504 2.0 GHz 4MB Cache) running VMware ESXi 4.1 with 3GB of vRAM assigned to the 4 vCPU and 8 vCPU FortiWeb Virtual Appliance and 1GB of vRAM assigned to the 2 vCPU FortiWeb Virtual Appliance.

| <b>Ordering Information</b> |                       |  |
|-----------------------------|-----------------------|--|
| Product                     | SKU                   | Description  |
| FortiWeb-400C               | FWB-400C              | FortiWeb-400C, x4 10/100/1000 ports, one (1) 500 GB Hard Drive |
|                             | FC-10-V0403-137-02-DD | FortiWeb Security Service for FortiWeb-400C                    |
| FortiWeb-1000C              | FWB-1000C-E07S        | FortiWeb -1000C, 4 10/100/1000 ports, one (1) 1TB Hard Drive   |
|                             | FC-10-V1003-137-02-DD | FortiWeb Security Service for FortiWeb-1000C                   |
| FortiWeb-3000C              | FWB-3000C-E02S        | FortiWeb-3000C, 6 10/100/1000 ports, two (2) 1TB Hard Drive    |
|                             | FC-10-V3002-137-02-DD | FortiWeb Security Service for FortiWeb-3000C                   |
| FortiWeb-VM02               | FWB-VM02              | FortiWeb-VM, up to two vCPUs supported. 64-bit OS.             |
|                             | FC-10-VVM02-137-02-DD | FortiWeb Security Service for FortiWeb-VM02                    |
| FortiWeb-VM04               | FWB-VM04              | FortiWeb-VM, up to four vCPUs supported. 64-bit OS.            |
|                             | FC-10-VVM04-137-02-DD | FortiWeb Security Service for FortiWeb-VM04                    |
| FortiWeb-VM08               | FWB-VM08              | FortiWeb-VM, up to eight vCPUs supported. 64-bit OS            |
|                             | FC-10-VVM08-137-02-DD | FortiWeb Security Service for FortiWeb-VM08                    |

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