AppWall®: Web Application Firewall
Technical Product Information

AppWall OnDemand Switch Platforms

AppWall is available on Radware OnDemand Switch platforms. Scalability is achieved by throughput upgrade licenses or with the AppWall clustering feature in conjunction with an Application Delivery Controller (ADC).

AppWall Virtual Appliance

AAppWall Virtual Appliance (VA™) is a full featured AppWall Web Application Firewall packaged as a virtual appliance running on server virtualization infrastructure, providing identical functionality to a AppWall physical appliance including management, reporting and clustering.

Attacks Prevented

Full coverage of OWASP top 10 web application security risks:
- A1-Injection
- A2-Cross Site Scripting (XSS)
- A3-Broken Authentication and Session Management
- A4-Insecure Direct Object References
- A5-Cross Site Request Forgery (CSRF)
- A6-Security Misconfiguration
- A7-Insecure Cryptographic Storage
- A8-Failure to Restrict URL Access
- A9-Insufficient Transport Layer Protection
- A10-Unvalidated Redirects and Forwards

Web application attacks prevented:
- XSS
- SQL injection
- OS command injection
- LDAP injection
- SSI injections
- XPath injection
- Sensitive information leakage (e.g. CCN, SSN, custom defined)
- Application DOS

- CSRF
- Parameter tampering
- From field manipulation
- Session hijacking
- Cookie poisoning
- Application buffer overflow
- Brute force
- Access to predictable resource locations
- Unauthorized navigation
- Web server reconnaissance
- Directory\path traversal
- Forceful browsing
- HotLink
- HTTP response splitting
- Evasion and illegal encoding
- XML validation
- Web services method restrictions and validation
- HTTP RFC violations
- HTTP request format and limitation violations (size, unknown method, etc.)
- Use of revoked or expired client certificate
- File upload violations

Product Specifications – OnDemand Switch Platforms

OnDemand Switch VL

Performance[1]	
Available Throughput Licenses[2]	200Mbps, 500Mbps, 1Gbps and 2 Gbps
Max Concurrent Established Connections	51,000
Latency	< 1 millisecond
Inspection Ports	
10/100/1000 Copper Ethernet	5
GE (SFP)	2
1000Base - SX/LX/ZX Ports	All Gigabit Fiber ports deliver SX/LX/ZX interfaces depending on GBIC
1000Base - SX (850 nm) Operating Distance	• 62.5 micron MM fiber .2 m to 275 m • 50 micron MM fiber .2 m to 550 m
1000Base - LX/ZX Operating Distance	• LX: Up to 10 km (6.2 mi) • ZX: Up to 80 km (49.7 mi)
Management Ports	
10/100/1000 Copper Ethernet	1
RS-232	1
USB	1
Mode of Operation	
Deployment Modes	• Bridge • Reverse proxy – transparent and non-transparent • Cluster deployment
Policy Action	Block (Active) & Report (Passive)
High Availability	
Dual Power Supply	Optional
Cluster Management	Two or more AppWall devices can be clustered. An AppWall cluster is easily managed with the Cluster Management component, ensuring all policies across the entire AppWall cluster are synchronized. (Cluster Manager acting as Web Application Firewall)
Physical	

Dimensions (W x D x H) mm	• 1U, single power supply:
	  o Width: 424 mm (17 in.)
	  o Depth: 457 mm (18 in.)
	  o Height: 44 mm (1.7 in.)
	EIA Rack or Standalone: 482 mm (19 in.)

Weight (lb, kg)	7.7 kg (17 lbs)
Power Supply	Auto-range supply: AC: 100-240V 47-63Hz DC: -36~-72V
Power Consumption	188W
Heat Dissipation (BTU/h)	641 BTU/h
Operating Temperature	0°C to 40°C (32°F to 104°F)
Humidity (non-condensing)	5% to 95%
Safety Certifications	EN 60950-1:2006, CB - IEC 60950-1, CCC, cTUVus/cULus
EMC	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, IEC 61000 4-2 to 4-6, IEC 61000 4-8 & IEC 61000-4-11
Other Certification	CE, FCC Part 15B Class A, ICES-003, VCCI, C-Tick
Warranty	1-year hardware and software maintenance
Support	Certainty Support Program

[1] Actual performance figures may change per network configuration, traffic type, etc.
[2] Capacity is measured as maximum traffic forwarding when no security profiles are configured.

Product Virtualization Requirements – AppWall VA

Minimal Requirements	
Logical Disks	1
Disk Space	26 GB
vCPUs	2
vRAM	2 GB
Network vInterfaces	2
Recommended Requirements	
vCPUs	4
vRAM	6 GB
Network vInterfaces	2
Supported Virtualization Environments	VMware ESX or ESXi 5.0/5.5

Specifications are subject to change without notice.