ENTERPRISE DATASHEET

The Adaptive Defense Platform for Enterprise Resilience

SMARTWALL ONE™

Every minute of downtime
hurts your revenue and your reputation.

For the modern enterprise, DDoS and other attacks that result in downtime are no longer a security incident; they are a business availability crisis. Attackers are betting on speed and automation, making even a single outage costly and disruptive. Many of today's attacks are short, tactical bursts designed to overwhelm firewalls, disrupt revenue streams, and exploit service vulnerabilities.

> **We believe your defense must be as fast and adaptive as the threats you face.**

SmartWall ONE™ is the platform that ensures always-on business continuity. We provide the strategic defense needed to guarantee service resilience for your core applications and infrastructure without the operational complexity or performance latency that plagues legacy systems.

Strategic Pillars of Enterprise Protection

We built SmartWall ONE to answer the three core questions of every security leader: Can you protect my revenue? Can you simplify my operations? Can you prove it?

1

Zero Downtime Protection

Speed that saves revenue

Your security solutions must react faster than any attack. With DDoS, sub-second mitigation is the difference between a minor blip and a massive financial loss.

- **Real-Time, Adaptive Defense:** We detect and mitigate volumetric, state exhaustion, and application layer attacks immediately.
- **Performance Without Compromise:** Our dedicated processing minimizes latency to less than half a microsecond.
- **Guaranteed Business Continuity:** Our Multi-Site Resiliency automatically enforces security policies across all your data centers without delays.

2

Operational Ease

Resiliency built to scale

Security architecture should support, not constrain, modern enterprise infrastructure. Our solution delivers comprehensive protection across cloud and on-premises environments.

- **Flexible Deployment Topology:** Available as physical appliances or software, supporting all enterprise models, including In-Line, and Hybrid Cloud deployments to meet your most demanding topological needs.
- **Protection Your Way:** Our software-first platform gives you control over how and where you deploy protection. Run on approved bare metal, launch in virtual environments, or use our dedicated appliances. Choose what fits best for your infrastructure, budget, and team without costly or disruptive changes.

3

Actionable Intelligence

From data to decision

Vast amounts of data without context is just noise. SmartWall ONE Analytics transforms raw network traffic into actionable threat intelligence.

- **Visibility and Control:** Our analytics dashboards provide crystal-clear visibility into attack traffic, blocked and allowed packets, and mitigation effectiveness.
- **Seamless Integration and Operational Efficiency:** We reduce tech bloat with our open architecture. All security events are fully accessible via open APIs (REST) and standards-based feeds (syslog).
- **Executive Insight and Reporting:** Gain clear, historical, and real-time insight into attack severity and policy effectiveness. Deliver the intelligence required for risk quantification and demonstrating security.

L3-L7 DDoS Security Coverage

Comprehensive protection across all network layers

Intelligent Protection

- ✓ Defends attacks to single/multiple IPs and Subnets
- ✓ Behavioral Smart-Rules intelligently detect and block volumetric DDoS attacks, including those using zero-day techniques
- ✓ Programmable Flex-Rules deliver surgical blocking of known attack vectors, using Corero enhanced Berkeley Packet Filter matching
- ✓ DDoS Intelligence predictive protection feed
- ✓ Botnet/source flood detection and blocking
- ✓ Intelligent automatic fragment blocking
- ✓ TCP/UDP port-based rate limiting policies
- ✓ Cloud mitigation and BGP RTBH/FlowSpec signaling

Resource Exhaustion

- ✓ Malformed and Truncated Packets (UDP bombs)
- ✓ IP fragmentation/segmentation attacks
- ✓ Invalid TCP segment IDs
- ✓ Bad checksums and illegal flags in TCP/UDP frames
- ✓ Invalid TCP/UDP port numbers
- ✓ DNS Infrastructure NXDOMAIN water torture
- ✓ TLS encryption connection / renegotiation
- ✓ Low and Slow (Slowloris)

Volumetric DDoS

- ✓ TCP flood
- ✓ UDP flood
- ✓ UDP fragmentation
- ✓ SYN flood
- ✓ ICMP floods
- ✓ Carpet bombing
- ✓ HTTP / HTTPS flood (GET, POST, HEAD, ...)

Reflective Amplification DDoS

- ✓ NTP monlist response amplification
- ✓ DNS query amplification
- ✓ Connectionless LDAP (CLDAP)
- ✓ SSDP/UPnP responses
- ✓ SNMP inbound responses
- ✓ CHARGEN responses

Choose Your Deployment, Scale on Your Terms

Whether on-prem or hybrid, our modular architecture lets you deploy protection where it matters most. Scale from 80 to 800 Gbps with zero downtime or forklift upgrades.

Flexible Deployment Options

Inline & Data Path

Direct traffic inspection and real-time mitigation

Scrubbing

Flexible traffic routing and threat isolation

Hybrid Cloud

Seamless on-premises and cloud protection

Universal Performance Specifications

TYPICAL LATENCY	INSPECTED LATENCY	MITIGATION REACTION TIME
< 0.5 Microseconds	< 60 Microseconds	Sub-Second

NTD Appliances

NTD 280

Entry Enterprise

MAXIMUM THROUGHPUT

80 Gbps

PACKETS PER SECOND

100 Million

NETWORK INTERFACES

16 x 1/10G SFP/SFP+ or 2/4 x 10G LR zero-power bypass

MAX SYN FLOOD RATE

100 Million PPS

POWER CONSUMPTION

330W

FORM FACTOR

1-RU Rackmount

NTD 3400

Large Enterprise

MAXIMUM THROUGHPUT

800 Gbps

PACKETS PER SECOND

400 Million

NETWORK INTERFACES

1/2 x 400G OSFP DR4 or 2/4 x 100G with QSFP28/LR4 zero-power bypass

MAX SYN FLOOD RATE

400 Million PPS

POWER CONSUMPTION

580W

FORM FACTOR

1-RU Rackmount

Software-First Flexibility

Deploy on your infrastructure with no vendor lock-in. Run protection where it makes the most sense for your business.

NTD Software Edition

Bare metal COTS server-based protection

MAXIMUM THROUGHPUT

800 Gbps

on 96 x CPU cores

PACKETS PER SECOND

400 Million

on 96 x CPU cores

TYPICAL LATENCY

< 0.5 microsecond

for zero delays

MITIGATION TIME

< 1 second

for zero downtime

SUPPORTED MANUFACTURERS

Dell, HPE, SuperMicro

NETWORK INTERFACE SUPPORT

- 1G/10G
- 100G
- 400G

NTD Virtual Edition

Hypervisor-based protection

MAXIMUM THROUGHPUT

100 Gbps

on 32 x CPU cores (KVM)

PACKETS PER SECOND

80 Million

deployed on KVM

TYPICAL LATENCY

< 0.5 microsecond

for zero delays

MITIGATION TIME

< 1 second

for zero downtime

SUPPORTED HYPERVISORS

- KVM on Red Hat Enterprise 7+, CentOS 7+, Ubuntu 16.04+
- VMware ESXi 6.5+

NETWORK INTERFACE SUPPORT

- 10G - XL710 NIC
- 100G - E810 / ConnectX-5/6 NIC
- 400G - ConnectX-7 NIC

Software-First Advantages

✓

No Vendor Lock-In

Deploy on your choice of hardware or cloud

✓

Rapid Deployment

Start protecting in hours, not weeks

✓

Scale on Demand

Grow capacity without hardware refresh

Management Options & Analytics

Centralized Management: Object-Oriented with Real-time visibility from physical and software appliances

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Management Options

- → **Web-Based GUI:** HTTP(S) Access Through Central Management Station
- → **Command Line Interface:** SSH Access for Advanced Configuration
- → **Programmatic API:** JSON-Based REST Through Management Station
- → **User Authentication:** Role-Based Access Control (LDAP/Active Directory & RADIUS)

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Analytics & Reporting

- → **Analytics Dashboard:** Real-time visibility into attack traffic and mitigation effectiveness
- → **Detailed Drill Downs:** Top IPs/Ports/TTLs/Packet Sizes with PCAP Export
- → **SIEM Integration:** SYSLOG for Traffic & Security Events with REST API
- → **Remote Monitoring:** SNMP v2/v3 Standard MIB GET

From Raw Data to Actionable Intelligence

SmartWall ONE Analytics transforms network traffic into clear, executive-ready insights. Understand attack severity, validate policy effectiveness, and quantify risk—all from a single pane of glass.

Ready to See What Sub-Second Defense Looks Like?

Put our solution to the test with your live traffic. Our team will show you how we deliver always-on service availability with zero disruption, zero latency, and zero complexity.

Contact Sales