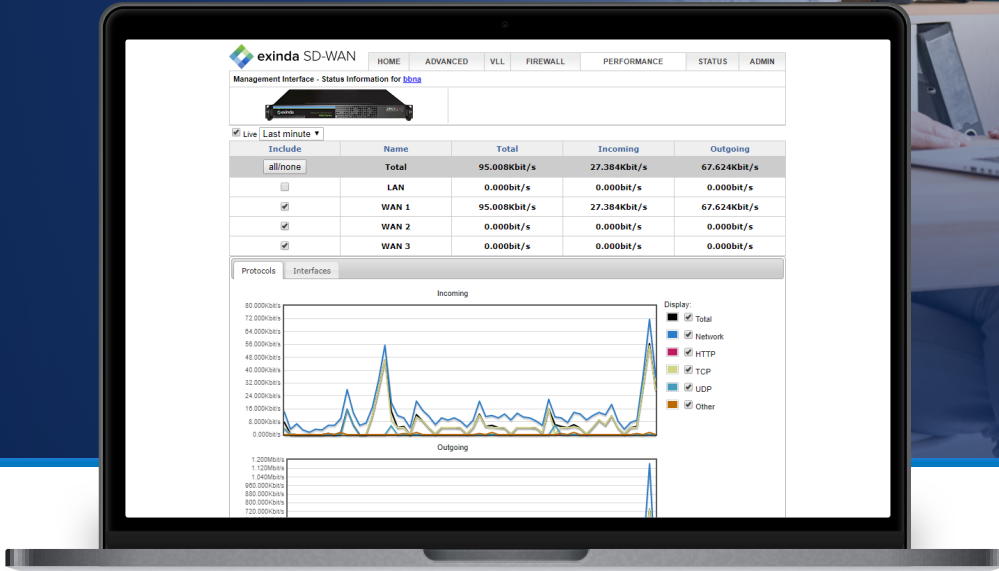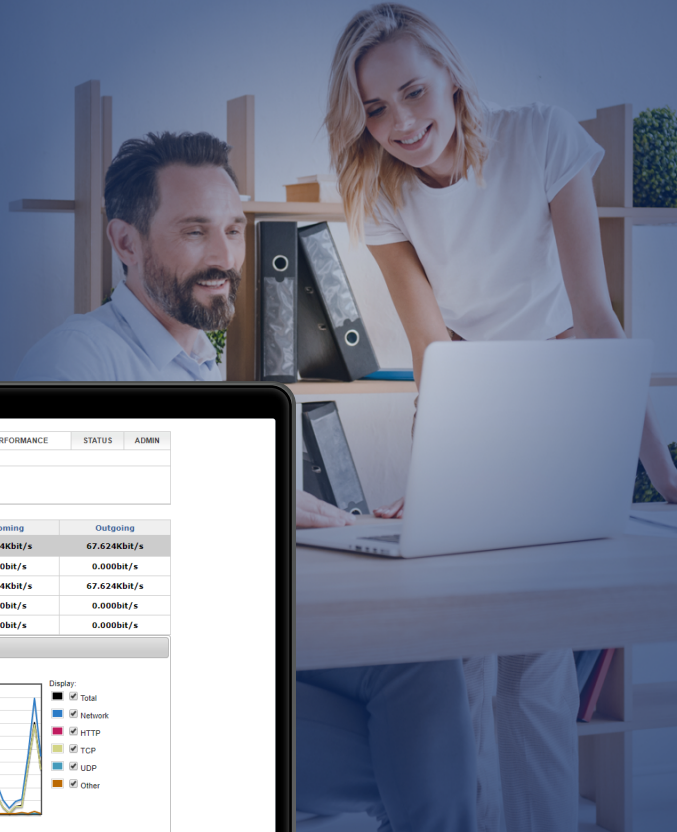# Exinda SD-WAN *EXSD-1000*

Exinda SD-WAN enables cost-effective Internet access and network solutions for any size business, apartments, hotels & other multi-tenant buildings. Exinda SD-WAN aggregates the capacity of two or more (or optionally as many as eight or twelve) T-1, DSL or cable modem services and two USB-based cellular data cards. This provides increased access bandwidth for downloaded traffic equal to the combined bandwidth of the aggregated links, even to a single user.

Exinda SD-WAN can provide this higher access capacity and more reliable Internet access at a much lower cost than comparable-bandwidth and expensive fiber optic or T-3 access service. It has a 1U rack-mountable form factor with silent active cooling.

GFI Software™

exinda SD-WAN **Features**

✓ **Downlink/Uplink Bonding in Peered Mode**

Exinda SD-WAN bonds Internet access lines for all types of traffic (including encrypted traffic such as VPN) for aggregated downlink and uplink capacity. Two appliances can be used in case of multi-site offices or else one can rely on our cloud hosted on Amazon AWS.

✓ **Aggregated Downlink Capacity in Standalone Mode**

When not peered with another Exinda SD-WAN appliance, all HTTP downlink sessions use the aggregated bandwidth of the combined Internet access links, even in the case of a single HTTP session. For non-HTTP downlink sessions and all uplink sessions, Exinda SD-WAN provides session-based intelligent load balancing across the access links in standalone mode.

✓ **Link Failure Recovery & Link Failover**

In case of Internet access line failures, the Exinda SD-WAN appliance keeps the ongoing sessions alive by retransmitting the lost packets over the available access lines, even for the sessions in progress, without loss of data integrity. Additionally, automatic failover protects against failures of one or more access link outages. You can add 2G/3G/4G cellular cards as standby WAN access links for additional reliability.

✓ **Traffic Monitoring & Shaping**

You can monitor traffic via graphical plots over seconds/minutes/hours/days/months. Filter and shape various realtime and non-realtime traffic types.

✓ **Strong AES Encryption**

Exinda SD-WAN bonding tunnels have built-in security option with AES 256 encryption.

EXSD-1000

HARDWARE SPECIFICATIONS

Mechanical dimensions
438(W) x 292.1(D) x 44(H) mm,
17.25″(W) x 11.5″(D) x 1.73″(H).

Weight
10.4lbs.

Input power requirement
80 plus 250W full-range ATX

USB ports
2 (for cellular data).

LAN ports (GbE, auto-sensed)
2 GbE copper RJ45 Ethernet connector. One WAN port to LAN port fail-to-wire in case of power outage.

WAN ports (GbE, auto-sensed)
8 GbE copper WAN ports (model E). Add-on module option for additional: 8 GbE copper (model EC) or 8 GbE SFP ports (model EF).

Certifications
FCC, CE, RoHS-2, UL.

Operating Temperature
32 – 104 F, 0 – 40 Celsius.

Operating Humidity Range
20-90% RH.

Storage Temperature Range
-4 – 158 F, -10 – 70 Celsius.

✔ **Virtual Interfaces with WAN & Traffic Management**

Exinda SD-WAN supports virtual interfaces that have real physical WAN interfaces. Specific types of traffic can then be selectively filtered onto the virtual interface to take advantage of the load-balancing and failover capabilities of the virtual interface.

✔ **Transparent Zero-touch Installation**

The existing Local Area Network does not require any changes. You do not need coordination, new equipment or software from the Internet Service Provider(s). A remotely accessible browser-based interface provides quick and easy management and system monitoring.

✔ **Advanced QoS Algorithms**

All traffic routed through Exinda SD-WAN is intelligently managed to prioritize real-time applications (such as VoIP). Additionally, Exinda SD-WAN implements a unique set of proprietary algorithms to improve inbound real-time traffic latency metrics specifically for VoIP applications.

✔ **Dynamic DNS Load Balancing**

You can configure Exinda SD-WAN to provide Dynamic DNS load-balancing for inbound requests for internally hosted servers such as web-server, FTP-server, mail-server etc.

✔ **Cellular 3G, 4G, LTE WAN Connection**

Exinda SD-WAN supports 2 USB ports for cellular 3G/4G/LTE data cards. The cellular WAN links can be configured as fail-over, or always on.

✔ **Exinda Network Orchestrator Compatibility**

Exinda SD-WAN complements and is fully compatible with Exinda Network Orchestrator for added traffic shaping via application classification as well as acceleration between different sites.

EXSD-1000

SOFTWARE SPECIFICATIONS

Max throughput
1 Gbps (load balancing), 940 Mbps (standalone) , 800Mbps (peered).

Max No. of concurrent IP sessions
1,000,000

Device management
SNMP, Remote Syslog, Email alerts.

DHCP and DNS servers
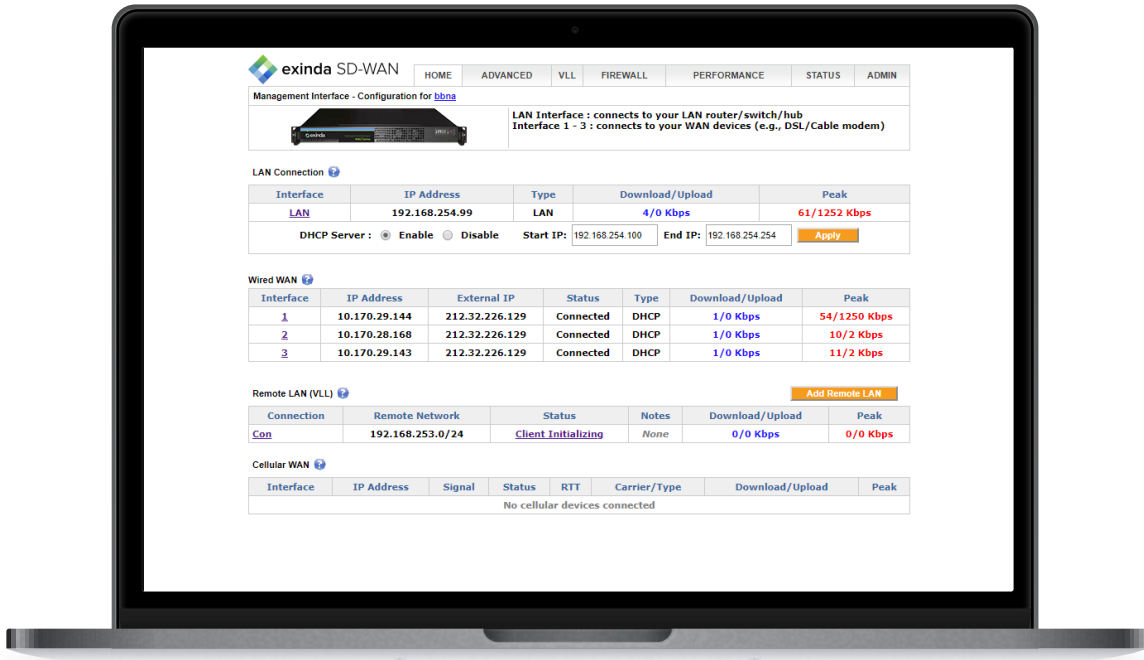DNS relay, Parallel DNS optimization, DHCP server.

DDNS
Support for dynamic DNS for multiple interfaces.

WAN Configuration
Static IP, PPPoE, DHCP or passthrough. Failover-only or aggregate modes for cellular and other WAN ports. Interface binding.

Routing
NAT and IP forwarding, QoS and inbound/outbound VOIP quality management.