## Highlights

**SD-WAN Optimization**

- User and application flow control
- Link state monitoring
- Multi-path optimization

**Management and Analytics with ExtremeCloud™ IQ**

- Simplified network operations
- Link state visibility monitoring
- Advanced reporting and network insights

**Secure network access**

- Layer 2-7 policy enforcement
- Identify, prioritize, and restrict traffic flows

# VPN Gateway Virtual Appliance

## VMware-based VPN Tunnel Termination

The VPN Gateway Virtual Appliance (VGVA) is designed to simplify VPN and GRE termination, and is a key component of Extreme's SD-WAN branch solution. As a software-based VMware-compliant solution, the VGVA provides scalable enterprise-class VPN termination for thousands of layer 2/3 VPN tunnels from remote access locations.

Underpinned by ExtremeCloud™ IQ management and software-defined device intelligence, highly distributed organizations benefit from simplified provisioning, increased network resilience, end-to-end visibility and control, and reduced cost and complexity.

Ex | Extreme Elements™
*ExtremeWireless™ VGVA*

Hu Human | Rb Routers SD-Branch | IQ Extreme Cloud iQ

**Built to Suit Your Business Needs**

**Extreme Elements** are the building blocks that allow you to tailor your network to your specific business environment, goals, and objectives. They enable the creation of an Autonomous Network that delivers the positive experiences and business outcomes most important to your organization.

Combining architecture, automation, and artificial intelligence, Extreme Elements enable you to ensure that your uses get what they need — when and where they need it. Providing these superior user experiences is as simple as mixing and matching the right elements.

Learn more at www.extremenetworks.com/extreme-elements/.
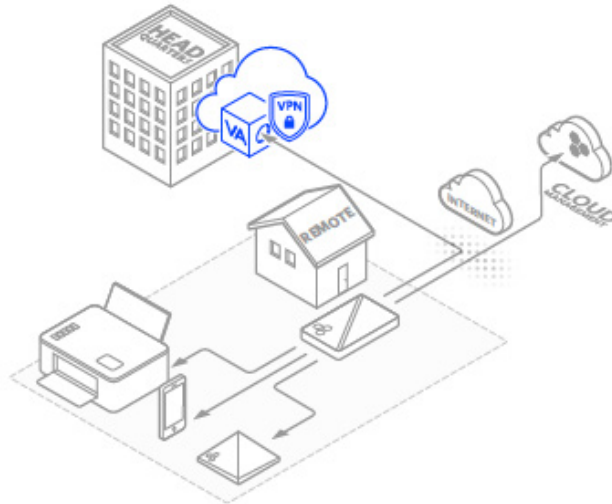
# VGVA Features

## Performance
- Multi-path optimization and link state detection
- Granular role-based QoS policies for each user and device
- Application-aware traffic shaping and performance optimization
- Per packet decision making

## Security
- Identity-based access control plus application visibility for 1200+ applications
- Wired endpoint authentication for 802.1X, MAC authentication, and Captive Web Portal support
- Layer 2-7 stateful rewall

## Management
- Public and Private Cloud, and on-premises management with intuitive conguration and comprehensive reporting
- Full stack solution when combined with Extreme's unified switches and wireless APs
- Simplied rollout – zero-touch provisioning and dynamic router IP address space management
- WAN and VPN monitoring via ExtremeCloud IQ, SNMP v1, v2c, and syslog

## VGVA Recommended Hardware Specifications

|  | 500 Tunnels | 1000 Tunnels |
|---|---|---|
| CPU | 2.4GHz dual-core | 3.1GHz quad-core |
| Memory | 2+ GB (512MB for VM) | 4+ GB (1024MB for VM) |
| Ethernet NICs | 1 or 2 | 2 |
| VMware Version | ESXi 4.1 or later | |
| Hard Disk Size | 10+ GB (256MB for VM) | |

# Product Specications

## SD-WAN Routing Features
- Link state monitoring
- Per packet dynamic WAN path selection
- User and application aware routing policies

## Layer 3 IPsec VPN (When combined with Extreme router(s))
- Remote office IPsec-based VPN solution
- Profile-based split tunnelling with NAT support
- Extend local subnet or create unique subnets per remote site
- Redundant tunnel support

## Layer 2 IPsec VPN (When combined with Extreme AP(s))
- Remote AP IPsec-based VPN solution
- Extend local subnet to remote sites
- Redundant tunnel support

## Routing Protocols
- OSPF
- RIPv2

  **Note:** a single VGVA can function in either L2 or L3 mode (not both).

## VGVA Recommended Hardware Specifications

| SKU | Descriptions |
|---|---|
| AH-VG-VA | VG-VA, VPN Gateway Virtual Appliance |

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