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.
VGVA Features

Performance
- Multi-path optimization and link state detection
- Granular user profile-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 firewall

Management
- Public and Private Cloud, and on-premises management with intuitive configuration and comprehensive reporting
- Full stack solution when combined with Extreme’s unified switches and wireless APs
- Simplified rollout – zero-touch provisioning & dynamic router IP address space management
- WAN and VPN monitoring via HiveManager, SNMP v1, v2c, and syslog

VGVA Recommended Hardware Specifications

<table>
<thead>
<tr>
<th></th>
<th>500 Tunnels</th>
<th>1000 Tunnels</th>
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<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>2.4GHz dual-core</td>
<td>3.1GHz quad-core</td>
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<tr>
<td><strong>Memory</strong></td>
<td>2+ GB (512MB for VM)</td>
<td>4+ GB (1024MB for VM)</td>
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<tr>
<td><strong>Ethernet NICs</strong></td>
<td>1 or 2</td>
<td>2</td>
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<tr>
<td><strong>VMware Version</strong></td>
<td>ESXi 4.1 or later</td>
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<tr>
<td><strong>Hard Disk Size</strong></td>
<td>10+ GB (256MB for VM)</td>
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Product Specifications

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 tunneling 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

<table>
<thead>
<tr>
<th>SKU</th>
<th>Descriptions</th>
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<tr>
<td>AH-VG-VA</td>
<td>VG-VA, VPN Gateway Virtual Appliance</td>
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