

Polycom® Video Border Proxy 4555 Converged Network Appliance

The Polycom Video Border Proxy (VBP™) 4555 network appliance allows your organization to conduct video conferences clearly and securely by resolving the challenges caused by firewalls.

Users of standards-based video endpoints, such as the high definition Polycom HDX series room and personal telepresence systems, can now remotely and securely communicate over video on the enterprise network.

By performing video NAT at the IP address boundary, the VBP 4555 network appliance eliminates the risks of tunneling video and voice traffic from the network perimeter. With both an Ethernet WAN port and a software-selectable integrated T1 CSU/DSU interface, the VBP 4555 appliance can be utilized as a WAN access router or installed behind an existing WAN access router. The VBP 4555 enables remote locations using TLS to communicate with enterprise components using a single outbound port.

The VBP 4555 appliance employs a stateful packet inspection firewall, in combination with an application layer gateway, which determines when to open or close TCP and UDP ports for video and voice endpoints. To maximize video and voice quality, the VBP 4555 appliance forwards video traffic via the shortest possible path, effectively minimizing jitter, delay, and packet loss.

Bandwidth unused by video or voice is made available to boost WAN bandwidth and enable data traffic to burst at full line rate. To ensure control over video and voice quality, the VBP 4555 appliance also possesses traffic management capabilities such prioritization, traffic shaping, call entry control, and diffserv marking/policing.

An Essential Element in the Polycom UC Intelligent Core™

The engine of Unified Communications starts with the Polycom UC Intelligent Core, a full portfolio of collaboration infrastructure solutions that enables teams to interact over voice and video anywhere, anytime. The UC Intelligent Core drives our solutions architecture by providing built-in intelligence—including resiliency, redundancy, cost-effective scale, and native integration with major UC partners—to connect the most people in the highest quality for the lowest cost.

Learn More

To find out more about what the Polycom Video Border Proxy solution or other Polycom solutions can do for you, visit us at polycom.com or call 1.800.POLYCOM.



Enhanced network security

- Seamless resolution to challenges of communicating through firewalls
- Application layer gateway for H.323 video, and SIP
- Dynamic access control list for simplified set-up and operation

High quality video communication

- Video and voice media routing via shortest possible path
- Call entry control to prevent congestion of prioritized traffic
- Traffic management capabilities including priority queuing, traffic shaping, and diffserv marking/policing
- Support for up to 3 Mbps of voice or video in any combination

Simplified deployment and use

- All-in-one network traversal solution for voice, video, and data networks
- Both T1 (4555 only) and Ethernet WAN access router
- Integrated four-port managed Ethernet switch with VLAN support
- Embedded LAN side gatekeeper supporting up to 15 registrants

Polycom VBP 4555 Converged Network Appliance Specifications

WAN Interfaces

T1

- Framing: ESF/D4
- Line coding: B8ZS
- Line build out: 0,-7.5,-15dB

T1 is not available in all countries. Consult the Polycom price list for country availability.

Ethernet

- 10/100 Mbps
- Auto-sensing, full or half duplex

WAN Protocols

- PPP
- Frame relay
- HDLC/cHDLC

LAN Interfaces

- 4 x 10/100 Mbps Ethernet ports
- Auto-sensing, full or half duplex
- Managed switch supports VLAN 802.1Q tagging and forwarding for up to 16 unique VLAN Ids

Hardware

Dimensions

- Height 1.7", Width 10", Depth 7"
- Weight: 2 lbs.

Power

- External power brick: 12V, 3.0A
- Power consumption (Max): 32W

Regulatory

- UL,cUL, CE, FCC Part 68, FCC Part 15, Industry Canada, CB, RoHS, TBR21

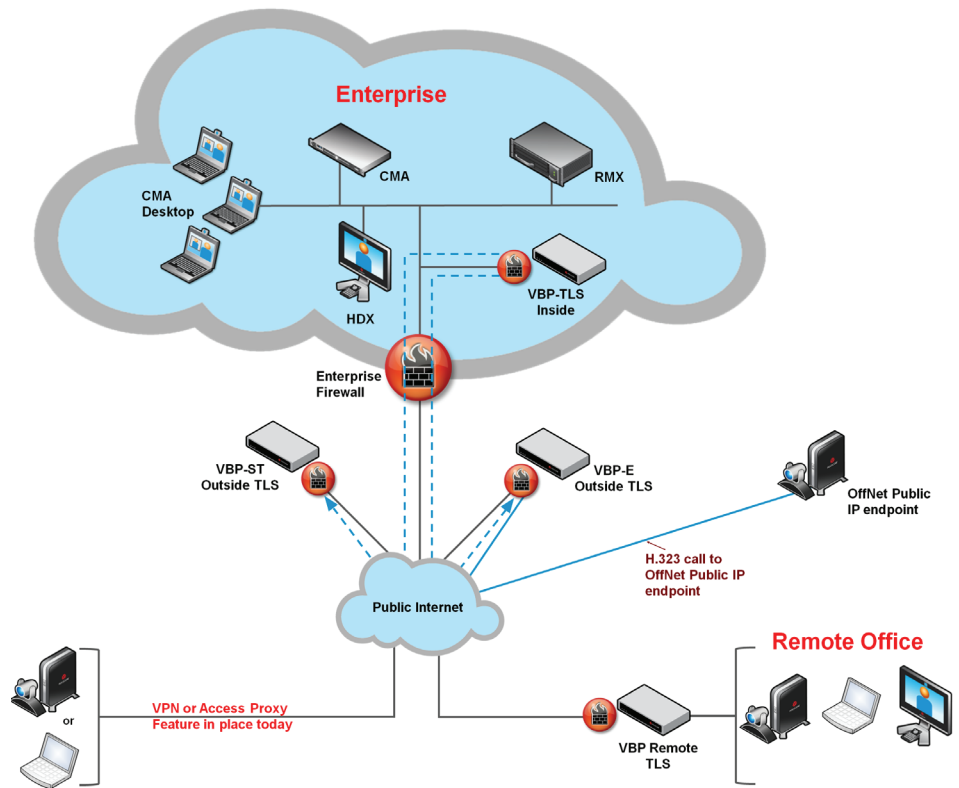
Management

- HTTP, HTTPS, SSH, Telnet, SNMPv1/V3
- Syslog support

Software Features

Video and Voice

- SIP and H.323 application layer gateway enables a single public IP address to be used for multiple endpoints
- Shortest path routing for media optimizes video and voice quality
- Embedded LAN side gatekeeper supporting up to 15 registrants



QoS

- Class based queuing/prioritization
- Diffserv marking and policing
- Traffic shaping
- Video and voice call admission control prevents oversubscription of priority queue

Security

- Stateful packet inspection firewall
- Application layer gateway dynamically provisions and closes UDP ports used for video and voice calls
- IPSec: 3DES, SHA-1
- NAT/PAT server hides enterprise LAN topology
- VPN AES 128

Passive Call Quality Monitoring (voice only)

- Per call statistics include mean opinion score (average and minimum), jitter, latency, packet loss and much more
- Alarms for poor MOS scores
- Active call count indicators

Description

- VBP 4555-E3 NAT/ firewall traversal unit includes a four-port 10/100 Ethernet switch, integrated T1 CSU/DSU WAN interface, or 1x 10/100 Ethernet WAN interface with capacity of 3 Mbps of traffic.

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