



# Polycom® Video Border Proxy Solutions

## Security and Firewall Traversal

### Benefits

#### Secure Remote Access to IP Video Conferences

- Interoperable with all standards-based video endpoints, gatekeepers, and multipoint conferencing platforms

#### Simplified firewall traversal

- Video NAT and H.460 traversal
- Secure video proxy to retain network protection

#### Video device protection

- H.323 application-aware firewall
- Topology hiding and dynamic access control to protect video devices

#### Optimal video quality

- Seamless prioritization of video over data
- Media routing via the shortest possible path
- Video and voice call entry control to prevent congestion of priority traffic
- Traffic management capabilities such as priority queuing, traffic shaping, and diffserv marking/policing

Polycom Video Border Proxy (VBP™) solutions allow video conferences to securely traverse firewalls, while retaining complete network security.

Users of standards-based high definition video endpoints such as the Polycom HDX series can now remotely and securely communicate over video on enterprise or service provider networks.

By performing video NAT at the IP address boundary, Polycom VBP solutions forward video traffic via the shortest path possible to minimize jitter, delay, and packet loss. Polycom VBP solutions fully protect H.323 gatekeepers, video endpoints, and multipoint conference platforms from attack, while safeguarding video quality.

Polycom VBP series also optimize video conference quality through traffic management features such as prioritization, traffic shaping, call admission control, and diffserv marking/policing. In addition, the Polycom VBP series enhances network security with an H.323-aware packet inspection firewall that opens and closes TCP and UDP ports as required.

#### High-Quality, Highly Secure Video Conferencing

Polycom VBP secure H.323 proxies enable one public IP to serve all the video communications needs, and with availability for bandwidths from 1 Mbps to 85 Mbps, IT managers can configure the VBP series for centralized or decentralized dial plans.

Polycom VBP solutions support all standards-based video endpoints and multipoint conferencing units, such as the Polycom RMX 2000™ real-time media conferencing platform. Models with optional H.460 support for mobile users or remote locations without video-aware firewalls are also available.

#### Solutions for All Requirements

Polycom VBP solutions provide security and firewall traversal across a wide range of enterprise and service provider requirements, and include:

**Polycom VBP E Series** – Ideal for dialing video endpoints outside the network that are not registered with a gatekeeper, as may be the case with a distributed dial plan.

**Polycom VBP S Series** – Optimized for networks in which all endpoints are registered to a central gatekeeper.

**Polycom VBP ST Series** – The best choice when H.460-based traversal services are needed in conjunction with a centralized gatekeeper.



# Polycom Video Border Proxy Solutions

## Network Security

- Application layer gateway dynamically provisions and closes UDP ports used for video and voice calls
- NAT/PAT server hides enterprise LAN topology

## Passive Call Quality Monitoring (voice only)

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

## Dialing Methods

- E.164, E-mail or Annex O format, IP address, IP address + extension (inbound from the wide area network only)

## Embedded Gatekeeper

- Gatekeeper neighboring support to gatekeepers in the local or wide area network (not available on S/ST models)

## Deployment Models

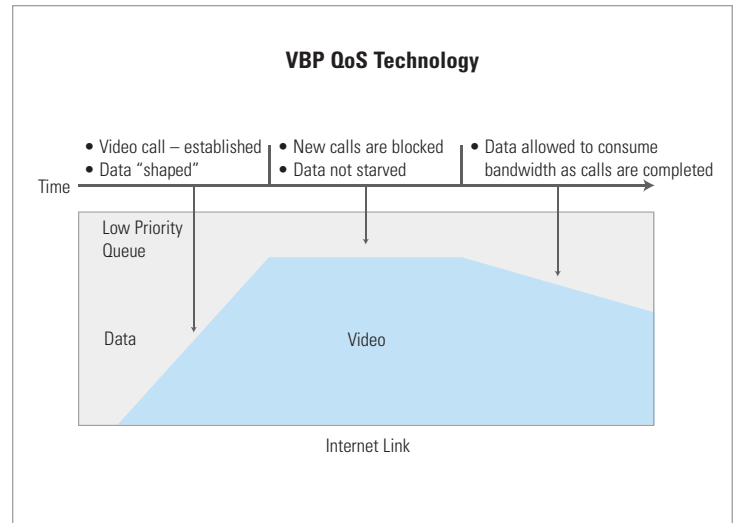
- LAN side gatekeeper, embedded gatekeeper, neighboring proxy, embedded gatekeeper neighboring, prefix dialing/peering proxy, WAN side gatekeeper

## Target Application

- Used for distributed gatekeeper applications when dialing endpoints outside of your network that are not registered with your gatekeeper

## Make Great Things Happen with Polycom Video Border Proxy Solutions

In today's Internet driven world, the ability to conduct real time communication and collaboration has become critical to an organization's survival. As the market leader in voice, video and content collaboration and communications, our award-winning conference technology makes it easy for people to interact and maximize productivity – over any network, in just about any environment, anywhere around the globe. That's why more organizations worldwide use and prefer Polycom conferencing solutions. Because when people work together, great things happen. See how you too, can achieve great things with Polycom Video Border Proxy solutions.



## Hardware Specifications

VBP E-Series Hardware	Performance	Embedded Gatekeeper (# of registered clients)
200 EW	Up to 1 Mbps of traffic in any combination of voice, video or data	3
4350	Up to 3 Mbps of traffic in any combination of voice, video or data	15
5300	Up to 25 Mbps of traffic in any combination of voice, video or data	5300 E-10 = 50 5300 E-25 = 100
6400	Up to 85 Mbps of traffic in any combination of voice, video or data*	250

### VBP 200 EW

#### WAN Interfaces

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

#### Ethernet

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

#### Wireless

- 802.11 (b & g)

#### 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

#### Dimensions

- Height 1.7", Width 10", Depth 7"
- System weight: 2 lbs
- Power supply weight: 1 lbs
- WEEE weight: 3 lbs
- Shipping weight: 5 lbs

#### Power

- External power brick: 12V, 3.0A
- Max watts: 36

#### Regulatory

- FCC Part 15 (Class B), UL, CE (Class B), FCC Part 68 and Industry Canada

### VBP 4350

#### WAN Interfaces

- T1 (not available on VBP 4350W model)
- Framing: ESF
- Line coding: B8ZS
- Line build out: 0,-7.5,-15dB

#### Ethernet

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

#### Wireless

- VBP 4350W model only 802.11 (b & g)

#### 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

#### Dimensions

- Height 1.7", Width 10", Depth 7"
- System weight: 2 lbs
- Power supply weight: 1 lbs
- WEEE weight: 3 lbs
- Shipping weight: 5 lbs

#### Power

- External power brick: 12V, 3.0A
- Max watts: 36

#### Regulatory

- FCC Part 15 (Class B), UL, CE (Class B), FCC Part 68 and Industry Canada

### VBP 5300

#### WAN Interfaces

- 1 x 10/100 Mbps Ethernet port
- Auto-sensing, full or half duplex

#### LAN Interfaces

- 1 x 10/100 Mbps Ethernet port
- Auto-sensing, full or half duplex

#### Out-of-Band Management Interface

- 1 x 10/100 Mbps Ethernet port
- Auto-sensing, full or half duplex

#### Dimensions

- Height 1 11/16", Width 16 14/16", Depth 14"
- WEEE weight: 13 lbs
- Shipping weight: 18 lbs

#### Power

- 100/240v VAC, auto-selecting, 50 to 60 Hz
- Max watts: 460

#### Regulatory

- FCC, UL, cUL, CE, RoHS, Industry Canada ICES-003, Korean MIC and NZ/AU C-tick.

### VBP 6400

#### WAN Interfaces

- 1 x 10/100/1000 Mbps Ethernet port
- Auto-sensing, full or half duplex

#### LAN Interfaces

- 1 x 10/100 Mbps Ethernet port
- Auto-sensing, full or half duplex

#### Out-of-Band Management Interface

- 1 x 10/100 Mbps Ethernet port
- Auto-sensing, full or half duplex

#### Dimensions

- Height 3 .75", Width 17.5", Depth 26.5"
- WEEE weight: 45 lbs
- Shipping weight: 55.2 lbs

#### Power

- 100/240v VAC, auto-selecting, 50 to 60 Hz
- Max watts: 1080

#### Regulatory

- FCC Class A, CE, UL, EMS, VCCI, GS Mark, Gost R, Korean MIC and RoHS

## Product IDs

Part Number	Description
2583-22563-001	VBP 5300/5300LF-E10 NAT/ Firewall traversal unit for medium to large enterprise locations. This model includes 2 x 10/100 Ethernet interfaces, a 1 x 10/100 Ethernet out of band management with capacity of up to 10 Mbps of traffic in any combination of voice, video, or data
2583-22563-002	VBP 5300/5300LF-E25 NAT/ Firewall traversal unit for medium to large enterprise locations. This model includes 2 x 10/100 Ethernet interfaces, a 1 x 10/100 Ethernet out of band management with capacity of up to 25 Mbps of traffic in any combination of voice, video, or data
2583-22564-001	VBP 6400/6400LF-E85 NAT/ firewall traversal unit for medium to large enterprise deployment. This model offers 2 x 10/100 Mbps Ethernet interfaces, a 1 x 10/100/1000 Ethernet out of band management and dual redundant hot swap power supplies

©2008 Polycom, Inc. All rights reserved.

*Polycom and the Polycom logo are registered trademarks and RMX 2000 and VBP are trademarks of Polycom, Inc. in the U.S. and various countries. All other trademarks are the property of their respective owners. Information in this document is subject to change without notice.*



**Polycom Headquarters:**

4750 Willow Road, Pleasanton, CA 94588 (T) 1.800.POLYCOM (765.9266) for North America only.  
For North America, Latin America and Caribbean (T) +1.925.924.6000, (F) +1.925.924.6100

**Polycom EMEA:**

270 Bath Road, Slough, Berkshire SL1 4DX, (T) +44 (0)1753 723000, (F) +44 (0)1753 723010

**Polycom Asia Pacific:**

8 Shenton Way, #11-01, Singapore 068811 (T) +65.6389.9200, (F) +65.6323.3022

Part No. 3726-17257-001 Rev. 04/08