

▶ Polycom® Video Edge™ (PVE™) 1000



The Polycom® Video Edge™ (PVE™) 1000 platform is a video streaming distribution appliance that efficiently streams live and on-demand business video securely to hundreds or thousands of desktops within enterprise networks.

The Polycom PVE 1000 solution provides significant reduction in network bandwidth as well as increased scale and reliability for live and on-demand video streaming.

Reliable, Cost-effective Video Distribution

The Polycom PVE 1000 platform is an affordable system for scalable delivery of multiformat video content within an enterprise Wide Area Network. It reduces network bandwidth required for large, live video casts by creating a single path from the source to the PVE appliance at the network edge. It then splits the video to the end viewers on the local network. It also load balances and provides multiple network path options to ensure viewers will be able to receive the video stream reliably. With advanced caching of content viewed or previously pushed to the Polycom Video Edge appliance, network bandwidth is conserved.

Delivered in a small secure hardened appliance form factor, or as a software option on Riverbed® Steelhead® appliances, it includes monitoring and management by the Polycom Video Media Center™ (VMC™) 1000. It supports multiple video formats such as Windows Media®, H.264, Flash®, and .mp3 formats; and protocols including progressive download, http streaming, RTSP, RTMP, and multicast support. The Polycom PVE 1000 platform empowers customers to update distributed teams simultaneously with the most up-to-date material, including audio and video, documents, images and other presentation material.

Benefits

- ▶ Minimal Network Bandwidth – Intelligent stream management with caching
- ▶ Secure – Flexible, automated setup and teardown of video distribution for each event
- ▶ Scalable – Optimized distribution of video content to thousands of employees simultaneously over an existing enterprise network
- ▶ Reliable – Instant routing of user requests to the closest streaming edge server; automated failover for encoders and streaming servers at all levels
- ▶ Automated Multicast and Unicast – Efficient management of publishing points, content distribution and edge server deployment
- ▶ Streamlined Deployment – Simplified process for distributing streaming video files over the network so that non-technical employees can package and publish video programs

Polycom® Video Edge™ 1000 Specifications

Live Broadcast Workflow

- The Polycom PVE 1000 provides a simple interface to manage testing, provisioning, starting, monitoring, stopping, and tearing down of the streaming network configuration.

Publishing Point Automation

- The PVE 1000 automates the setup of publishing points on all streaming servers on the network. It recognizes various roles that a server may play: origin point, distribution mode, edge mode. The user can select the origin and destination modes and the Polycom PVE 1000 selects a distribution route.

Network Flexibility

- The PVE 1000 automates maximization of bandwidth conservation with a combination of unicast and multicast network segments and provides multicast-to-unicast failover on designated servers. Embedded tools also schedule transmissions which conform to a given format and bit rate. The PVE 1000 saves bandwidth by offering the option to select particular edge modes or groups of edge modes.

Streaming Server Monitoring

- The PVE 1000 automatically monitors all streaming servers and displays failure notices if any of the servers fail. This ensures a successful event for the audience.

Failover

- The PVE 1000 provides automatic routing of user requests to the closest server, and failover to the second closest server.

Content Prepositioning

- Distribution can be enabled to the PVE 1000 appliances based on policies and publishing parameters. Obsolete content is removed upon expiration date.

Caching

- On-demand (passive) caching for Windows Media and archiving when streaming live Windows Media. Content pre-positioning available for all media types.

Proxying

- Live proxying – stream splitting for Windows Media and Flash. Both forward and reverse proxy modes are supported for streaming content, thus providing flexibility in selecting a method to route end-user requests to the closest Polycom PVE 1000.

Scale

- Each PVE 1000 supports up to 2000 viewers per appliance

System

- Processor 2.0 GHz, 800MHz FSB, 512k cache
- Memory 4GB DDR UNB 667MHz ECC SDRAM
- Disk Selection HDD, 160GB, SATAII
- ROHS compliant
- Standard 1U
- Network Interface: 1xGigE

Physical Characteristics

- Dimensions: Mini 1U chassis W x L x H = 16.7" x 1.7" x 14"
- 260W PS
- Shipping Weight 24.5 lbs (11.1kg) – Unit 15.4lbs
- Power supply – 1 x Input volt-age: 100 – 240 V, 50 – 60 Hz, 10 – 5 Amp
- Power: 260 W

Supported Technologies

- Windows 2008 Standard Server
- Windows 2008 Enterprise Edition (Multicast Edition)

Streaming Servers

- Windows Media Streaming Server
- Wowza Media Server Pro

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