



Polycom® V²IU™ Series Security and Firewall Traversal Systems

IP Gateways that Simplify and Secure IP Video Conferencing

Benefits

Simplifies inter-company video conferencing

- All in one network and security solution for converged voice, video and data networks
- Works seamlessly with gatekeepers, endpoints and multipoint conferencing units

Resolves NAT/Firewall traversal problems

- Flexible solution that provides video NAT and H.460 traversal options

Protects video devices with a H.323 application aware firewall

- Topology hiding and dynamic access control list

Optimises video quality by prioritising video traffic over data traffic

- Routes media shortest path
- Video and voice call admission control prevents congestion of priority traffic
- Traffic management: priority queuing, traffic shaping and diffserv marking/policing

Polycom offers a complete line of network edge devices that simplify the deployment, management and security of converged video, voice and data networks.

The Polycom V²IU Series of NAT/firewall traversal systems resolve traversal issues by performing video NAT at the public/private IP address boundary. This approach helps protect H.323 gatekeepers, endpoints and multipoint conference units from network based attacks. They forward video traffic via the shortest path possible to minimise jitter, latency and packet loss that can negatively affect video quality. The flexible V²IU NAT/firewall traversal systems also include models with optional H.460 support for mobile users or remote locations where a video-aware firewall is not available.

These solutions provide an H.323-aware stateful packet inspection firewall that enhances network security by dynamically provisioning and closing TCP and UDP ports as needed by video devices.

The traffic management capabilities of include prioritisation, traffic shaping, call admission control and diffserv marking/policing to optimise the quality of video calls.

Ideally suited for both enterprise and service provider environments the V²IU family of NAT/firewall traversal systems makes it easy to collaborate and connect any way you want:

- *The V²IU E-series of NAT/firewall traversal systems* – Used for distributed gatekeeper applications when dialling endpoints outside of your network that are not registered with your gatekeeper.
- *The V²IU S-series of NAT/firewall traversal systems* – Used for central gatekeeper applications where all endpoints in your video conferencing application are registered to a centrally deployed gatekeeper.
- *The V²IU ST-series of NAT/firewall traversal systems* – Used in conjunction with a central gatekeeper when H.460 based traversal services are needed.

Make Great Things Happen with Polycom V2IU E, S and ST Series NAT/ Firewall Traversal Systems

In today's Internet driven world, the ability to conduct real time communication and collaboration has become critical to an organisation's survival. As the market leader in voice, video, data and web solutions, our award-winning conference technology makes it easy for people to interact and maximise productivity — over any network, in just about any environment, anywhere around the globe. That's why more organisations 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 V²IU E, S and ST Series NAT/firewall traversal systems.



VIDEO

VOICE

DATA

WEB

TOGETHER, GREAT THINGS HAPPEN.

Software Features

V²IU E-Series of NAT/firewall traversal systems

Video and Voice

- H.323 video and SIP voice application layer gateway enables a single public IP address to be used for multiple endpoints
- Shortest path routing for media Optimises video and voice quality

QoS

- Class-based queuing/prioritisation
- 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
- NAT/PAT server hides enterprise LAN topology

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

Embedded Gatekeeper

- Gatekeeper neighbouring support to gatekeepers in the local or wide area network

dialling Methods

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

Deployment Models

- LAN side gatekeeper, embedded gatekeeper, neighbouring proxy, embedded gatekeeper neighbouring, prefix dialling/peering proxy, WAN side gatekeeper

V2IU S-Series and ST-Series of NAT/firewall traversal systems

Video and Voice

- H.323 video and SIP voice application layer gate way enables a single public IP address to be used for multiple endpoints
- Shortest path routing for media Optimises video and voice quality
- H.460 support (V2IU ST-Series only)

Security

- Stateful packet inspection firewall
- 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 (average and minimum), jitter, latency, packet loss, and much more
- Alarms for poor MOS scores

Dialling Methods

- E.164

Deployment Models

- LAN side gatekeeper

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

Hardware Specifications

V ² IU Hardware	E-Series	S-Series	ST-Series	Performance
4350	•			Up to 3 Mbps of traffic in any combination of voice, video or data
5300	•	•	•	Up to 25 Mbps of traffic in any combination of voice, video or data
6400	•	•	•	Up to 85 Mbps of traffic in any combination of voice, video or data

4350

WAN Interfaces T1

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

Ethernet

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

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 43.1 x 254 x 177.8; 1.7" x 10" x 7" (H) x (W) x (D)

- 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

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

Regulatory

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

6400

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 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

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