Frontier





Advantages of Deploying Frontier

- O Communication appliance based on Hardened Linux.
- Easy to deploy and to implement.
- Traverses all types of firewalls and NATs while maintaining their security policies.
- Easy to implement, requiring no additional configuration on the existing security infrastructure. All connections are routed through a single fixed port.
- Supports all types of Windows-based and non-Windows H.323 endpoints.
- O Works with any standard H.323 gatekeeper.
- Applies AES encryption through all signaling and media transmitted to public networks.
- Enforces client/server authentication for both single and repeated connections.
- Almost no system and traversal latency (less than 6 ms).
- Handles up to 50 simultaneous calls. Call capacity may be increased by cascading multiple servers on a single site or in several locations.
- Automatic failover capability in multiple server configurations.



Solutions for secure firewall traversal and encrypted communications

In today's business environment, many commercial enterprises, public and governmental organizations deploy VPNs, firewalls, and NATs to protect themselves from virtual threats posed by hackers, spyware, and other malicious activity. However, it is equally important to create and maintain open, yet secure, communications channels with customers, partners, suppliers, and employees working at different locations.

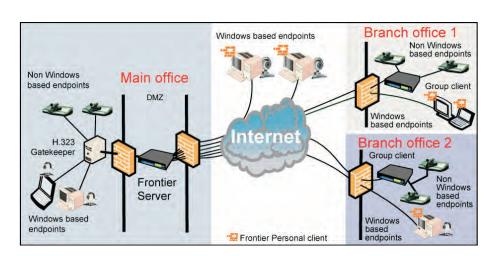
Emblaze-VCON's Frontier is the most effective solution for applying secure firewall traversal and network address translation to an H.323 IP multimedia communication network. It creates a secure tunnel for streaming video, audio, and data across multiple networks and to the public Internet. Setup of Frontier does not require additional configuration of security infrastructure, resulting in seamless communication without compromising enterprise security.

Frontier Product Suite

The Frontier **Server** is the central component through which all communications among registered users pass. The appliance is typically deployed in a DMZ or Service Provider's Network edge and is registered to an H.323 gatekeeper. The Frontier Server functions as the proxy for H.323 clients by substituting its own IP address to outside, thus preventing exposure of private enterprise IP addresses. All traffic is restricted to a single bidirectional port. A single server supports up to 50 calls at a single time, and call capacity may be increased by cascading multiple servers. Administrators can connect and monitor clients from a remote management console via a

The Frontier **Client** is installed in Windows-based H.323 endpoints. The client's connection to the Frontier Server is a secure H.323 tunnel across the enterprise's firewall/NAT.

The Frontier **Group Client** acts as a sole proxy through which non-Windows H.323 devices connect to the Frontier Server. The Group-client provides a single port connection to the Server for all endpoints registered to it. Endpoints registered in the Group-client can engage with each other in point-to-point conferences without calling the Server, saving valuable bandwidth.



In the sample application, the Frontier Server, situated in the DMZ, secures communication between endpoints in the organization's Main Office and clients located in the Branch Offices and in public networks.

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Non-Windows-based clients register to Group clients which act as proxy connections to the Server.

Videoconferencing among all these clients is only allowed through secured tunneling through the Frontier server.

Additionally, the calls are encrypted using AES techniques.



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Video Made Easy

Specifications

Frontier Server and Group-client

Up to 50 concurrent calls Call Capacity

per server

Two 10/100 Mb, Four 1 Gb Fast Ethernet ports

One DB9 (for console)

One 2x5 pin-connector 2x16 characters module with

four push-buttons

Power status Storage access

220 W, ATX PSU

Physical Dimensions

Storage Dimensions

Weight

Operating Environment

Environment

Certification

428.6 (W) 360 (D) 44 (H) mm 16.87 (W) 14.17 (D) 1.73 (H) in

1U 19" Rackmount

9.8 kg / 21.59 lb

Temperature: 5-40°C (41-104°F) Humidity: 20-90% rel. humidity

Temperature: 0-70°C (32-158°F) Humidity: 5-95% rel. humidity

CE/FCC/UL

Frontier Client

Ethernet Ports

Serial Port

LCD Panel

LEDs

Client System requirements: Windows XP/2000 Intel Pentium III 600 MHz or higher 128 MB RAM





