

FIREWALL TRAVERSAL

NEW YORK STATE DISTANCE LEARNING

BOCES APPROVED FIREWALL TRAVERSAL SOLUTION

"Direct Packet Research is not just another vendor. The entire organization treats every client as a member of their organization. Teaming with Direct Packet has enabled Sullivan County BOCES the opportunity to embrace video conferencing on all levels."

Debra Atkins, Sr. Program Assistant, Sullivan County BOCES

OVERVIEW

- Single port traversal
- Non-endpoint specific
- 256-bit AES encrypted
- Full gatekeeper functionality
- E.164 dialing
- Solutions for 1 endpoint locations
- Include public addressed endpoints with Auto Attendant feature

> Sullivan County BOCES Solution Profile

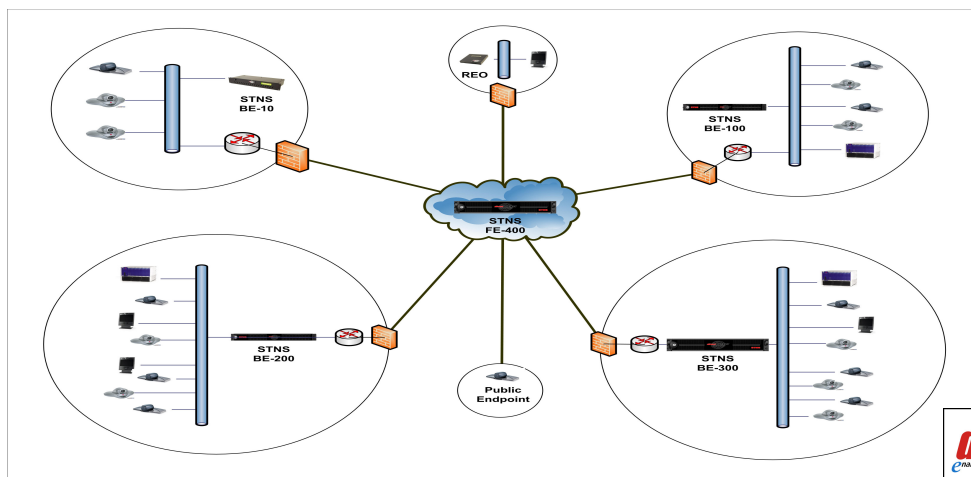
Sullivan County BOCES supports 27 video endpoints (Polycom & Tandberg) residing behind 8 different firewalls. Historically, distance learning and content sharing were severely limited by the firewalls protecting their school's data networks. Bridging this gap with ISDN through gateways or MCU's had proven too expensive. A solution was desired to allow these video endpoints to call network to network, without compromising existing firewalls, and decreasing the complexity required to initiate distance learning sessions.

After investigating available technologies, Sullivan County BOCES selected the STNS Firewall Traversal Solution from Direct Packet Research. "Our STNS solution was installed within 10 minutes", states Mike Sperano, SC BOCES Sr. Network Administrator. "The solution is extremely easy to configure and manage." Single port traversal and AES encryption ensured network integrity remains in place. Global addressing using "E.164 dialing allows our users to dial phone extensions instead of remembering complicated IP addresses", adds Sperano.

SC BOCES is currently working to connect with local universities, hospitals, libraries, and government offices for a comprehensive interconnected learning environment. In addition, their team is working with STNS enabled schools outside of NY, broadening the reach of every classroom. SC BOCES's Debra Atkins quantifies their success, "SC BOCES has increased it's video use by 85-90% due to the reach we've gained through the STNS solution, and the new endpoints we've deployed in conjunction with firewall traversal".



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Distance learning throughout New York has been hindered by firewalls protecting the numerous networks residing within the each BOCES. These issues have complicated the user experience, leading to a separation of resources available to video enabled schools. Technology is available to eliminate these firewall issues, and has recently been evaluated and installed within the New York BOCES system.

Direct Packet Research developed the STNS Firewall Traversal Solution to eliminate the very firewall issues plaguing the New York Distance Learning community. STNS enables video calls between independent networks via a single firewall port traversal. Firewall reconfiguration is not required and security is enhanced even further with 256-bit AES encryption. This appliance based solution is compatible with any H.323 video endpoint, regardless of manufacturer, and does not limit endpoint feature sets, nor video/audio quality.

The STNS solution is extremely scalable. Small schools with a single video endpoint are enabled just as easily as locations with 100 or more endpoints. Content and instructional resources can be shared throughout the state and country, exponentially increasing the reach of the current classroom.

About Direct Packet Research

Direct Packet Research develops secure and interoperable solutions for IP voice and video communication. Our technology leading infrastructure products deliver feature rich solutions designed to operate in single and multi-vendor environments. A dedication to network room compatibility provides our customers the greatest protection from obsolescence, unsurpassed flexibility, and a low total solution cost.



“The STNS solution has opened the doors to all our learning communities. High level collaboration is now possible with groups that reside outside our network, with a high level of security and simplicity we never envisioned.”

Elizabeth Huggler, Director of Technology, Sullivan County BOCES

STNS Specifications

<i>Transport</i>	<i>H.323 Video</i>
	<i>SIP voice routing & security support</i>
<i>Security</i>	<i>256-bit AES Encryption</i>
	<i>Single port traversal</i>
<i>Management</i>	<i>Web based GUI interface</i>
<i>Front End Controller</i>	<i>Scalable from 10-200+ Backend registrations</i>
	<i>(1) U Full Rack - FE 10 & 25</i>
	<i>(2) U Full Rack - FE 50, 100, & 200</i>
<i>Back End Controller</i>	<i>Scaleable from 1-1000+ endpoint registrations</i>
	<i>REO - 6"x6"x1" - (1) endpoint registration</i>
	<i>(2) U Half Rack - BE 10</i>
	<i>(1) U Full Rack - BE 100 & 200</i>
	<i>(2) U Full Rack - BE 300 & 400</i>
<i>Integrated Gatekeeper Functionality</i>	<i>Bandwidth Management</i>
	<i>E.164 Dialing</i>
	<i>Call Detail Record (CDR)</i>
	<i>Neighbor w/ legacy H.323 gatekeepers</i>
<i>Auto Attendant</i>	<i>Includes public addressed endpoints</i>

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