

Virginia Hospital Center Fills Security Prescription with Juniper Networks Security Solution



Customer:

Virginia Hospital Center, an acute care facility providing medical services to the Washington, DC metropolitan area

Industry:

Health care

Challenge:

Installing a security infrastructure with centralized management

Solution:

Juniper Networks NetScreen firewall, IPSec VPN and IDP security solutions

Benefits:

- Centralized network security management
- Simplified remote and wireless access
- Ensured HIPAA compliancy

“The Juniper Networks IDP product is allowing us to have a secure HIPAA-compliant network.”

Mark Rein

Virginia Hospital Center
Director of IT

In 1933, five women’s clubs decided to do a service project. They collected \$5 donations from 20 local organizations and created the Arlington Hospital Association. Seventy years later, what was once known as Arlington Hospital is now Virginia Hospital Center – a 334-bed comprehensive health care facility that is one of the largest hospital centers in the Mid-Atlantic area.

Virginia Hospital Center offers multiple centers of excellence including cardiology and cardiovascular surgery, oncology, women’s and infant health, neurosurgery and a new Lung Cancer Center. A teaching hospital, long-associated with Georgetown University’s School of Medicine, the hospital will be opening its new state-of-the-art \$160 million hospital wing in the fall of 2004. As the hospital continues to grow and meet Health Insurance Portability and Accountability Act (HIPAA) requirements, so do the physician and network security needs.

According to Mark Rein, director of IT at Virginia Hospital Center, one of the major problems the hospital had with their previous system was the inflexible technology. “Our previous Check Point firewalls were not easily configurable and did not work with our partners’ VPN solutions. As a result, we had to use two vendors – one for firewall and one for VPN - and these didn’t work well together. There was no central management of our network security.”

The Solution

Needing a new network security solution that would allow for easy configuration and central management, Virginia Hospital Center set out to find a more flexible, cost-effective replacement to its Check Point firewalls and Cisco virtual private network (VPN). After investigating several options, the Hospital decided to replace its network security products with a variety of Juniper Networks, Inc. security purpose-built solutions to protect network connections to the public Internet.



Virginia Hospital Center installed three Juniper Networks NetScreen-204 appliances to secure its primary Internet gateway. The NetScreen-204 appliance offers up to 400 Mbps of firewall performance, with support for 128,000 sessions. Juniper Networks NetScreen-5XP appliances, which provide a cost-effective solution for telecommuters and small offices, are deployed at leased offices and allow physicians to log in remotely. Two Juniper Networks NetScreen IDP-100 systems, which provide up to 200 Mbps of throughput, are deployed in high availability (HA) mode at Virginia Hospital Center's core network.

Using proprietary technologies, the NetScreen-IDP 100 system accurately identifies attacks and minimizes the number of false positives. With its high level of accuracy and ability to be deployed inline, customers can drop malicious packets or connections in real time to eliminate the cost and impact of attacks.

"The Juniper Networks IDP product is allowing us to have a more secure HIPAA-compliant network," stated Rein.

The Benefits

By replacing its Check Point/Nokia firewalls and Cisco VPNs with Juniper Networks security appliances, Virginia Hospital Center has seen numerous benefits. One of the most important benefits is centralized security. With Juniper Networks Rein commented, "We now have centralized network security management that's flexible and easy to manage."

Another benefit is the ability for physicians to easily and quickly log in when they are away from the office or when they are using wireless devices. "With the Juniper Networks solution, our physicians can now do remote diagnosis for our patients no matter where they are located. Each patient now has the best access to care even if their primary physician is on vacation," commented Rein.

Virginia Hospital Center also leverages Juniper's VPN capabilities to create secure encrypted transmission tunnels to help ensure that critical traffic is compliant with HIPAA security and privacy regulations.



**CORPORATE HEADQUARTERS
AND SALES HEADQUARTERS
FOR NORTH AND SOUTH AMERICA**
Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089 USA
Phone: 888-JUNIPER (888-586-4737)
or 408-745-2000
Fax: 408-745-2100

EAST COAST OFFICE
Juniper Networks, Inc.
10 Technology Park Drive
Westford, MA 01886-3146 USA
Phone: 978-589-5800
Fax: 978-589-0800

**ASIA PACIFIC REGIONAL
SALES HEADQUARTERS**
Juniper Networks (Hong Kong) Ltd.
Suite 2507-11, Asia Pacific Finance Tower
Citibank Plaza, 3 Garden Road
Central, Hong Kong
Phone: 852-2332-3636
Fax: 852-2574-7803

**EUROPE, MIDDLE EAST, AFRICA
REGIONAL SALES HEADQUARTERS**
Juniper Networks (UK) Limited
Juniper House
Guildford Road
Leatherhead
Surrey, KT22 9JH, U. K.
Phone: 44(0)-1372-385500
Fax: 44(0)-1372-385501

www.juniper.net

Copyright © 2004 Juniper Networks, Inc. All rights reserved.

Juniper Networks, the Juniper Networks logo, NetScreen, NetScreen Technologies, GigaScreen, and the NetScreen logo are registered trademarks of Juniper Networks, Inc. NetScreen-5GT, NetScreen-5XP, NetScreen-5XT, NetScreen-25, NetScreen-50, NetScreen-100, NetScreen-204, NetScreen-208, NetScreen-500, NetScreen-5200, NetScreen-5400, NetScreen-Global PRO, NetScreen-Global PRO Express, NetScreen-Remote Security Client, NetScreen-Remote VPN Client, NetScreen-IDP 10, NetScreen-IDP 100, NetScreen-IDP 500, GigaScreen ASIC, GigaScreen-II ASIC, and NetScreen ScreenOS are trademarks of Juniper Networks, Inc. All other trademarks and registered trademarks are the property of their respective companies.

Information in this document is subject to change without notice.

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without receiving written permission from:

Juniper Networks, Inc.
1194 N. Mathilda Ave. Sunnyvale, CA 95014
ATTN: General Counsel