

# Aurora Health Care Cures Firewall Ills with Juniper Networks Security Solutions



“We can now make changes to the network at any time without having to take the entire system down.”

**Dan Lucas**  
Aurora Health Care  
Lead WAN and Security Architect

**Customer:**

Aurora Health Care, a not-for-profit Wisconsin healthcare provider

**Industry:**

Healthcare

**Challenge:**

Install a scalable, high-performance network security solution

**Solution:**

Juniper Networks NetScreen firewall solution

**Benefits:**

- Decreased administration time
- Simplified configuration and management
- Increased network performance

In 1984, Wisconsin’s Aurora Health Care was created after two large hospitals joined forces. In the years that followed, other healthcare organizations joined Aurora as its leaders sought better ways to provide services to local patients. With a mix of hospitals in its network, Aurora provides a range of primary, specialty and home care services through its clinics, hospitals, pharmacies and more.

Aurora Health Care now has clinics located in 75 communities throughout eastern Wisconsin, 12 acute-care hospitals and one psychiatric hospital, 134 pharmacies and a medical group with more than 620 physicians. As Aurora Health Care expanded its operations throughout Wisconsin, its previous proxy firewall solution was not meeting the healthcare provider’s scalability and throughput needs. The IT department recognized the need to update its network security solution—in particular the firewall.

According to Dan Lukas, lead WAN and security architect at Aurora Health Care, “We had problems with the performance of our firewall and decided that the best alternative would be to go with a true hardware solution.”

**The Solution**

After evaluating solutions from multiple vendors, Aurora decided to purchase Juniper Networks, Inc. hardware-based, purpose-built network security systems and appliances.

A pair of Juniper Networks NetScreen-500 systems, which integrate firewall, virtual private network (VPN) and traffic management functionality, as well as denial-of-service (DoS) protection, are deployed in high availability (HA) mode protecting the DS3 connection at the Internet gateway and partitioned extranets.

Juniper Networks NetScreen-204 appliances, which offer up to 400 Mbps

of firewall performance, with support for 128,000 sessions, are deployed in active/passive mode at multiple business partner locations. And, Juniper Networks NetScreen-5XP appliances provide a cost-effective solution for Aurora's remote clinics that require a firewall to protect its servers.

**The Benefits**

The Juniper Networks devices have helped Aurora Health Care decrease administration time and effort for maintaining its firewalls, setting policies and creating historical reports. The IT department can now spend more time on core network projects rather than firewall maintenance.

The Juniper Networks security devices' easy-to-use graphical user interface (GUI) and management features allow Aurora Health Care to simplify administration and thereby easily scale to meet the needs of its growing hospital network.

Further, the HA capability of the NetScreen-500 system allows Aurora Health Care to make administrative changes while minimizing network downtime, something that was previously done on Wednesday and Sunday mornings. "We can now make changes to the network at any time without having to take the entire system down," reports Lukas.

Additionally, Juniper Networks application-specific integrated circuit (ASIC) based platform provides better performance than Aurora's previous firewall solution—which contained numerous reliability and throughput problems, that were compounded when the vendor's support team was called. Commenting on his satisfaction with Juniper Networks performance, Lukas stated, "Juniper Networks just works."



**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](http://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