



# THE COMPUTERWORLD HONORS PROGRAM

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## CASE STUDY

LOCATION:  
*Pleasanton, California,  
United States*

YEAR:  
*2006*

STATUS:  
*Laureate*

CATEGORY:  
*Business and Related Services*

NOMINATING COMPANY:  
*Juniper Networks*

### ORGANIZATION:

**ProBusiness**

### PROJECT NAME:

**Securing Critical Client Data and Applications**

### Summary

ProBusiness, a division of ADP National Account Services, is dedicated to meeting the outsourced employee administrative needs of large employers by offering innovative solutions for payroll processing and human resources administration. ProBusiness' challenge was to upgrade to a gigabit firewall capable of securing critical client data and applications while also providing intrusion detection and protection (IDP) capabilities for ProBusiness' high traffic network. Since deploying its new security Firewall and IDP solution, ProBusiness has not experienced any capacity issues and the organization takes advantage of gigabit rates when running data back-ups. Leveraging robust security from the new solution and maximizing its network performance, ProBusiness can now process all their clients' payroll without interruption from traffic bottlenecks and network- and application-level threats.

### Introductory Overview

ProBusiness, a division of ADP National Account Services, is dedicated to meeting the outsourced employee administrative needs of large employers. Offering innovative solutions for payroll processing and human resources administration, ProBusiness brings value to its clients by serving as an extension of their businesses and delivering service excellence.

Technology plays a key role in ProBusiness' ability to interact seamlessly with clients while exchanging data securely using integrated technology. In the payroll business, it's critical to exchange data reliably and securely with clients. The network is the foundation upon which their business and client satisfaction is built.

ProBusiness processes payroll at night after receiving client data via secured data transmissions and then distributes the payroll. Network bottlenecks can affect on-time payroll processing and ultimately reduce the service levels ProBusiness' clients depend on to provide payroll and human resources services to their employees.

In addition to processing data reliably in a timely fashion, data back-up is also a key requirement for ProBusiness. Client data is critical and the storing and future retrieval of that data is vital. If the back-up process is delayed or compromised due to capacity issues or data integrity,



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the internal and client consequences are significant. And, with nearly forty security zones on thenetwork, the organization needed a solution that could scale simply without creating network management complexity.

ProBusiness originally relied on a software-based firewall solution to secure data traversing the network, but soon realized that the organization needed a gigabit firewall at the core of the network in order to address capacity issues. In addition, ProBusiness wanted a solution from a single partner rather than work with a software vendor who relied on a third-party appliance supplier.

### Benefits

ProBusiness replaced its CheckPoint firewalls with the Juniper Networks security solution. Originally, ProBusiness deployed the Juniper Networks NetScreen-500 security system running in active/passive high availability mode to deliver firewall, DoS,

VPN and traffic-management control. A pair of NetScreen-500s are used to cordon off Quality Assurance, development and VPN users from the core network. They also provide Internet connectivity to the company's Learning Services (e-training). Another pair of NetScreen-500s, also running in active/passive mode, have been configured to provide connectivity to virtual office users back into the divisions' network, allowing the company to shape traffic and provide Quality of Service for a voice over IP (VoIP) application. This also allows ProBusiness to make deep configuration changes in support of the virtual offices without impacting production traffic during the re-configuration process.

The NetScreen-500 security systems protect internal applications, providing high levels of total throughput for firewall and IPSec VPN plus support for virtual systems and security zones. With a resilient hardware architecture that incorporates modular physical interfaces, redundant power supplies and high availability interfaces, the NetScreen-500 is well-suited for the demands of ProBusiness' network environment. The NetScreen-500 system provides robust integrated firewall and virtual private networking (VPN) functionality with up to 700 Mbps firewall performance and up to 250 Mbps of 3DES IPSec VPN throughput.

Juniper's solution is designed and architected to provide robust security while maximizing performance and minimizing maintenance requirements. Now they have one vendor to partner with for all of their security needs instead of relying on a software vendor who in turn is relying on a third-party appliance vendor.

ProBusiness also relies on the Juniper Networks NetScreen-5GT appliance for multiple security functions, including stateful and deep inspection firewall, IPSec VPN, denial of service protection, antivirus and Web filtering. For application-level protection, the

NetScreen-5GT appliance supports embedded virus scanning, to help eliminate virus threats from the network. The NetScreen-5GT offers up to 75 Mbps of firewall performance and up to 20 Mbps of 3DES IPSec VPN performance. In addition to firewall capabilities, ProBusiness is also using the NetScreen-5GT security systems to secure VPN tunneling for VoIP access and security.

Recently, ProBusiness deployed Juniper Networks ISG 2000s with IDP to provide an integrated firewall and IDP solution. The ISG 2000s sit on the edge of the network and form an Internet-



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facing presence for applications, such as the secure FTP application clients rely on to send data, several ProBusiness Websites and databases serving the Websites. The ISG 2000, with integrated IDP, stops worms, Trojans, spyware, malware and other emerging attacks from penetrating and proliferating across the network. With support for gigabit interfaces, the ISG 2000s also enable the processing of all payroll without creating the capacity issues associated with the previous firewall solution, eliminating traffic bottlenecks.

Since deploying its new security Firewall and IDP solution, ProBusiness has not experienced any capacity issues and the organization takes advantage of gigabit rates when running data back-ups. Leveraging robust security from the new solution and maximizing its network performance, ProBusiness can now process all their clients' payroll without interruption from traffic bottlenecks and network- and application-level threats.

With the Juniper Networks Firewall and IDP solution, ProBusiness can do what their clients expect them to do without interruption. Instead of spending time addressing network security issues, they can spend time focusing on the needs of their clients.

### The Importance of Technology

Given the numerous security zones that need protecting, adding an additional IDP solution would have been cost-prohibitive if not for the Juniper Networks integrated approach. In addition to the cost-savings, the integrated security devices are easier to deploy and maintain than separate boxes at every choke point in the network.

Compared with the more costly option, it made sense to deploy the ISGs with IDP, something that is, by design, already in the stream of the traffic. With the ISGs, they can maintain the Juniper devices to protect all of our different security zones simply and easily and from one location.

Since deploying the Juniper Networks security solution, ProBusiness has not experienced any capacity issues and the organization takes advantage of gigabit rates when running data back-ups. Recently, ProBusiness deployed another set of ISG 2000s for nine additional security zones that had to traverse two other sets of firewalls. Now those security zones have their own firewalls with direct access to the other areas of the network with which they need to communicate, eliminating the need to modify policy or wrestling with routing issues.

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### Originality

With the ISGs, they can maintain their Juniper devices to protect all of their different security zones simply and easily and from one location. Since deploying the Juniper Networks security solution, ProBusiness has not experienced any capacity issues and the organization takes advantage of gigabit rates when running data back-ups.

They took it a step further and deployed another set of ISG 2000s for nine additional security zones that had to traverse two other sets of firewalls. Now those security zones have their own firewalls with direct access to the other areas of the network with which they need to communi-



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cate, eliminating the need to modify policy or wrestling with routing issues.

### Success

Our firewalls service about 1200 systems in our division, including about 500 individuals. However, we host applications which service the entire enterprise as well as the enterprises of our customers. All told, this is several hundred thousand users.

Our targeted audience of users has embraced our innovation.

### Difficulty

Our challenge was from a technical standpoint: We needed to upgrade to a gigabit firewall capable of securing critical client data and applications while also providing intrusion detection and protection capabilities for our high traffic network.