

State of New Mexico: Boosting Speeds and Security with Juniper Networks

Business:

- State government taxation department

Problem:

- Providing 70 dispersed DMV offices with secure online access to a statewide intranet application

Solution

- DX 3250 application acceleration platform

Key Benefits

- Provided T1-level performance on 56K lines
- Increased server capacity 280%
- Reduced bandwidth usage 65%
- Accelerated site performance by 60%

The state of New Mexico's Taxation and Revenue Department was charged with deploying a new intranet application that would provide secure online services to 70 Department of Motor Vehicles (DMV) offices located throughout the state. Key requirements were that users at individual DMV sites be able to access these Web-browser-based services at maximum speed, and that citizens' data be secured against inappropriate and unauthorized access. Also critical was keeping the department's data center from becoming overly complex and costly. In other words, the department wanted to squeeze as much performance as possible out of its existing infrastructure.

Ed Romero, deputy secretary and chief information officer for the administrative services division of the Taxation and Revenue Department, said his staff evaluated a number of alternatives for providing fast and secure access to Web-enabled applications across the state. Ultimately they selected the Juniper Networks DX™ 3250 application acceleration platform for its quick payback, non-disruptive installation process, and dramatic performance improvement achieved without adding infrastructure or bandwidth.

The results were immediate. Access speeds through Web browsers were accelerated by 60 percent, while server capacity was up 280 percent. At the same time, bandwidth usage plummeted by 65 percent.

"We've built a statewide DMV intranet that lets us provide services through Web browsers with substantially increased application performance and assured customer privacy," said Romero. "And while improving performance in our data center – we're getting performance on our 56-Kbps lines equal to what we once needed T1 circuits to provide – the DX 3250 platform also has substantially reduced application complexity and cost."

The DX 3250 platform is "the easiest product we've ever installed," taking less than 30 minutes from start to finish, Romero added.

The Juniper Networks DX 3250 platform, introduced in March 2003, is one of a family of application front ends that offloads I/O and processor-intensive tasks from servers, performing data compression, Transmission Control Protocol (TCP) connection management, load balancing, request buffering, secure sockets layer (SSL) processing, and adaptive content processing of Hypertext Transfer Protocol (HTTP) traffic. By acting as intelligent front-end processors for the enterprise applications, the DX platforms relieve servers of overhead and make the enterprise data center faster, more secure, and less costly to run.

About New Mexico

New Mexico, which joined the Union on January 6, 1912, as the 47th state, has a long and colorful history. Human presence there dates at least as far back as 25,000 B.C., according to a 1936 discovery in a cave in the state's Sandia Mountains. In 1998 New Mexico observed the Cuatro Centennial, or 400th anniversary of the founding of the Spanish colony at the Tewa village of Ohkay. The state's capital is Santa Fe.



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