

# Juniper Networks Goes 24x7, Eliminates Downtime and Makes Subversion Perform and Scale for over 3000 Developers

Well over 3,000 developers at Juniper use Subversion at three sites: (1) Sunnyvale, CA, (2) Quincy, WA and (3) Bengaluru, India. Before implementing Subversion WAN Clustering (SVN MultiSite Plus) with Subversion LAN Clustering at each site, all three teams relied on a central Subversion server.

## Challenge

- Business continuity. Juniper wanted to operate on a 24-by-7 basis with no downtime, not even for maintenance.
- Provide remote locations with the same LAN-speed performance, repository access and availability as users at headquarters in Sunnyvale to ensure that remote developers are as productive as possible.
- Have a solution that is transparent to both users and administrators with automated failover and recovery.
- Have the ability to monitor and administer all servers worldwide from a single location.
- Juniper evaluated svnsync and other open source solutions, but couldn't find anything that would meet their requirements.

## Solution

- Juniper implemented Subversion WAN Clustering (SVN MultiSite Plus) with Subversion LAN Clustering at each site. Juniper now has a solution that delivers LAN-speed reads and writes at every location. All of the servers stay continuously in sync so that users at every site have access to the latest changes regardless of where they originated.
- When a server is taken offline, users automatically and transparently failover to another server and keep on working. As soon as the server comes back online it resynchronizes automatically without administrators having to do anything.

- When an entire site is taken offline, users transparently failover to Subversion servers at another location and continue working. When the site comes back online, its servers resynchronize automatically with Subversion servers at other locations and the users are transparently switched back.
- The solution is transparent to users and administrators.

## Results

- Remote users have the same LAN-speed performance and read/write access as users at headquarters in Sunnyvale.
- 24-by-7 operation achieved with no downtime, not even for maintenance.
- Subversion servers stay continuously in sync so that users at every location access the latest changes.
- Provided continuous hot backup with automated failover and recovery.
- Juniper can monitor and administer all of the servers from one location.
- Deployed to all servers worldwide within a couple of hours.

From devices to data centers, from consumers to the cloud, Juniper Networks delivers innovative software, silicon and systems that transform the experience and economics of networking. The company serves more than 30,000 customers and partners worldwide, and generated \$1.4 billion USD in revenue over the last year.

## FORRESTER®

A Forrester Total Economic Impact (TEI) Report revealed that SVN MultiSite Plus delivered a return on investment of 357% with a payback period of less than two months. The subject of the study was a Fortune 500 company with annual revenues of over \$5 billion that had deployed SVN MultiSite Plus two years earlier. Forrester's TEI methodology measures costs and cost reduction, and weighs the enabling value of a technology in increasing the effectiveness of overall business processes.

"We really needed some way to ensure that all of our sites were up and running all of the time. We needed to be 24-by-7 globally with the same LANspeed performance and access at all three locations. Cirata's (formerly WANdisco) active/active WAN clustering for Subversion was the only solution we found."

*Angela Thomas, Development Tools Manager,  
Juniper Networks*

