

## US NAVY

## ABOUT US NAVY

Headquartered in Millington, TN, the U.S. Navy Personnel Command controls information related to duty assignments and the appointment and instruction of naval personnel. It also provides administrative leadership, policy planning, and general oversight for the Bureau of Naval Personnel.

## BUSINESS NEED

The Navy Personnel Command is required to periodically backup military personnel records to a recovery site in Chicago, IL. Backup became a major issue, however, when the WAN connection between the two locations was identified as 12 MB/s. This wasn't enough speed to meet the agency's backup and recovery requirements and was preventing critical data from being protected.

The Navy considered a bandwidth upgrade as a way of overcoming their WAN performance challenges, yet doing so would delay the project by several months and result in a significant increase in ongoing operational expenditures. To overcome these obstacles, the Navy turned to EMC for an alternative solution—Silver Peak's WAN acceleration technology.

## DISCUSSION

Through real-time network optimization techniques, Silver Peak's NX appliances increased the amount of data the Navy could replicate across the WAN without increasing bandwidth expenditures. But before the appliances could be put in place,

a SAN running between the two locations needed to be installed by EMC to support two Symmetrix DMX's running over Brocade 7500 Fiber Channel to IP conversion switches. Creating this environment within the Navy infrastructure allowed for ease of procurement of Silver Peak. The Navy trusted EMC's suggestion to use Silver Peak's technology: the NX appliances are E-lab qualified, making them uniquely positioned to optimize SRDF in both Gigabit Ethernet and FCIP environments. Silver Peak is also the only WAN optimization solution certified by Brocade as "Data Center Ready," a key requirement given the Navy's newly-installed SAN infrastructure. Since launching Silver Peak's NX appliances, the Navy has delivered more than 75% more virtual bandwidth across the WAN while simultaneously minimizing the effects of latency. This has thus enabled the Navy to backup more data without upgrading its existing network infrastructure, which would inevitably be costly.

Today, the combined Silver Peak/EMC solution is a critical component of the Navy's data protection initiatives. The Navy customer stated that the "replication simply does not work without Silver Peak," in light of latency, lost packets, and the small bandwidth connection allocated to the Navy for this project. The combination of Silver Peak's latency mitigation, Forward Error Correction, and data de-duplication remedies the customer challenges and makes this a successful functioning system.

## Case Study: US NAVY



## Application:

EMC SRDF/A

## Products Sold:

NX appliances