



The Client

The Office of Safety and Health Administration (OSHA) within the United States Department of Labor whose primary responsibility is securing safe and healthy workplaces, particularly in high-risk industries.

Budget FY2010 - \$13.3 billion.

Full time employees – 17,477

The Challenge

The challenge presented to SarasITO (a division of Saras America) was to upgrade a total of 27 servers and 2 SANs (Servers, Switches and Disk Arrays) at both the headquarters in Washington DC and their data center in Salt Lake City, Utah, including configuration, data migration, replication, extensive testing and knowledge transfer – with a 60 day performance deadline. Extensive coordination with a variety of people within the Department of Labor was required in order to meet the aggressive timeline for implementation.

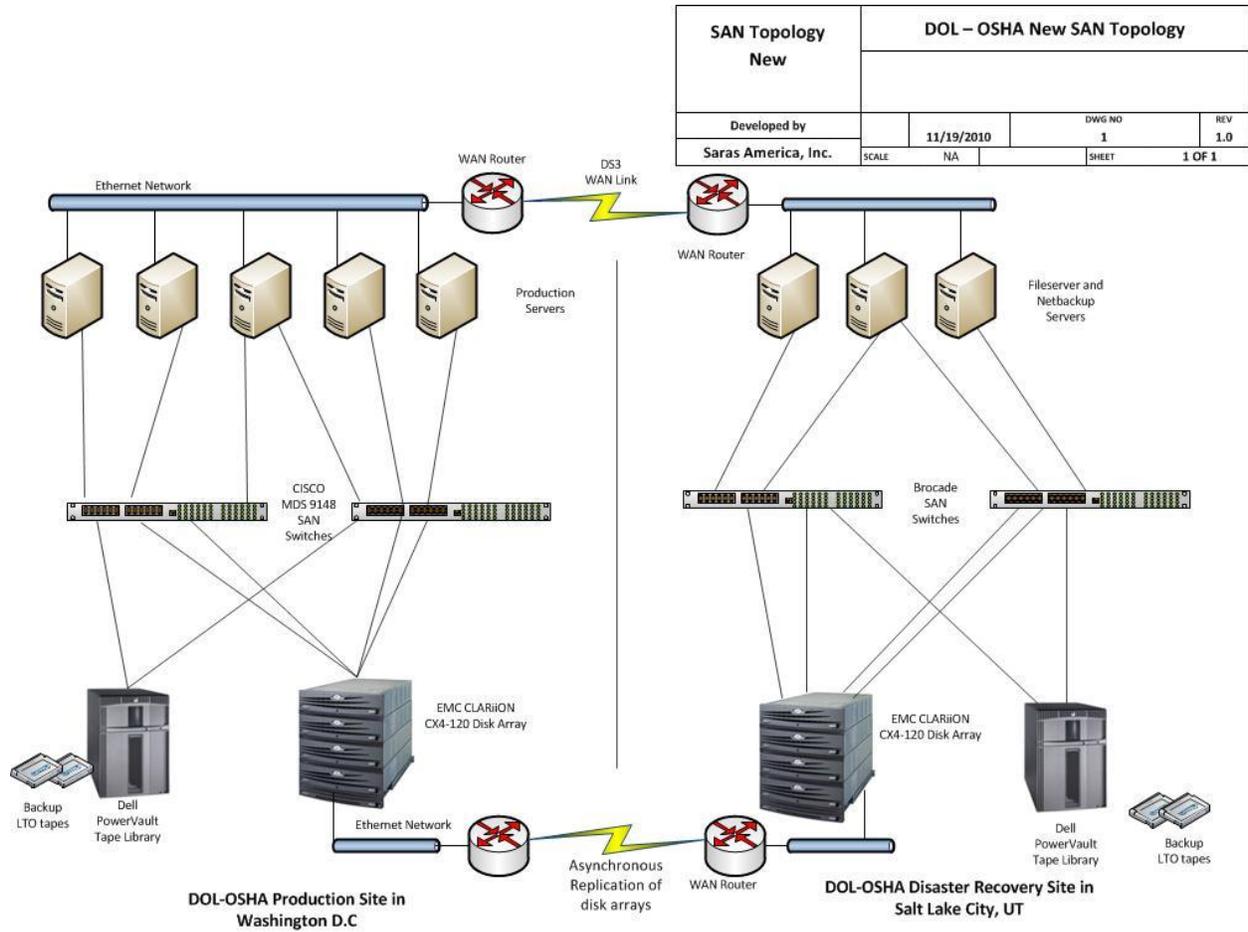


The Solution

After a thorough review of the existing hardware, software and configuration that the Department of Labor was currently utilizing, Saras America designed a solution that would not only meet the current needs of the Department, but would build in an additional 60% capacity to accommodate expected near term growth within the Department. Additionally, the solution enabled the Department to perform data replication between Washington DC and Salt Lake City, Utah – something the preexisting environment was not capable of. In fact, their preexisting system utilized backup tapes and in the event of an emergency, the expected RTO was 5-7 days and the RPO was 36 hours. With the solution provided by Saras America, the RTO is now less than 6 hours and RPO is less than 12 hours.

The hardware decided upon for the solution designed included the EMC CLARiiON CX4 model 120 and the CISCO MDS 9148 Multilayer Fabric switch to ensure that system uptime met or exceeded 99.999%. Saras America Inc, migrated 15TB of data from the LUNs in the existing EMC Clariion CX-300 disk array to the new LUNs designed for the CX4-120 array using SAN

Copy. For the Salt Lake City disk array Saras America designed an asynchronous data replication over WAN using EMC Mirror View for the hosts in DC to be able to access their disks in case of a disaster, as well as created new LUNs for the hosts in UT to be able to access the new disk array.



The Benefits

Storage space on the servers has been increased by 60% with additional available room on the arrays to facilitate expected future growth. Data replication was initiated between the disk arrays at the 2 sites which provide the Department with the reliability of 99.999% uptime. This reliability gives the Department a never before realized capability of being able to provide continuity operations in the event of an emergency.

The Results

The designed storage solution was implemented, configured and tested thoroughly, all LUNs from the old to the new have been migrated and the data replication between the 2 sites is running smoothly. SarasITO was able to successfully complete all phases of this project implementation in 45 days from contract award – fully 2 weeks ahead of schedule.