

The customer was impressed with how simple it was to install and deploy the CMO appliances as well as the zero impact to performance during migration.

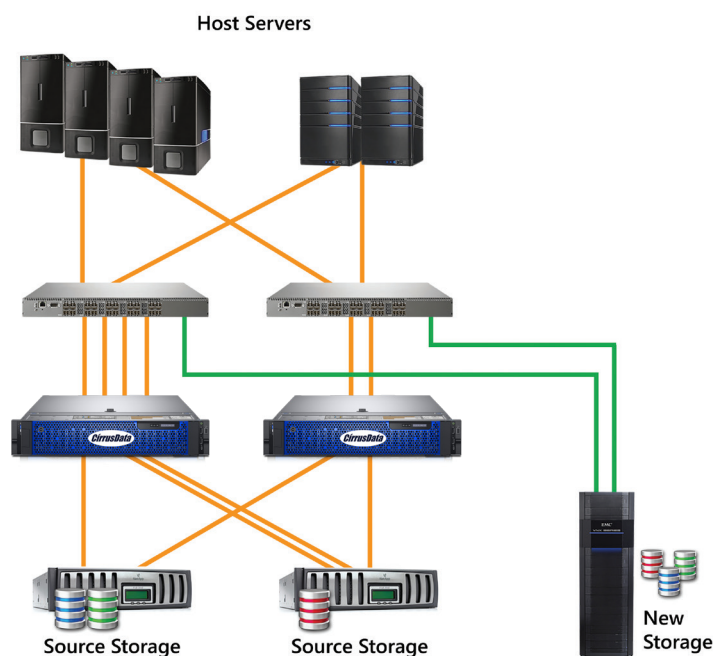
THE CHALLENGE

A major financial firm decided it was time to refresh their storage solution. Their game plan was to retire their older-generation NetApp HA storage data centers and migrate their data to Dell EMC VNX-5000s. Their existing storage consisted of two data centers with multiple client hosts on different OS platforms (Windows, Linux and VMware) all running demanding financial applications on Oracle and SQL. As a financial firm, performance during migration was crucial; there was zero tolerance for downtime during the migration process.

THE SOLUTION

Cirrus Data Solutions provided a quick, easy, and transparent data migration using its Cirrus Migrate On-Premises (CMO) solution to migrate data from NetApp to Dell EMC storage. The seamless migration did not require changes to the existing FC SAN, and therefore, avoided complications often associated with zoning changes, host-side driver installation, and/or manual storage LUN masking changes. CMO also automatically discovered all the source LUNs and hosts for migration. The patented Transparent Datapath Intercept (TDI) technology allowed the firm to avoid the risks normally associated with block-level migration. The CMO appliances were inserted one path at a time into the live FC data stream pausing live I/O for just a few seconds on each path and resuming activity automatically just moments after insertion.

The data migration was transparent to the database applications and caused zero impact to production. At cut-over, in a few short minutes the database owner simply unmounted the database from the old storage device and remounted the new device. After migration was complete, CMO performed a secure, 4-pass erasure of the old storage LUNs, ensuring the retired storage was ready to be repurposed or returned.



The customer was very impressed with how simple it was to install and deploy the CMO appliances, and how the entire existing SAN environment was discovered and displayed graphically without user input. All the customer needed to do was to identify and label each of the discovered source LUNs and pair them with the new destination LUNs, a process that could be accomplished with a single batch command. The customer was also pleased that the migration was 100% transparent to the existing production environment. With CMO they were allowed to set the desired level of aggressiveness and therefore, eliminate the impact on production.

QUICK FACTS

Customer Type

Major Financial Firm

Source Storage

NetApp FAS3040, 2 arrays,
6 ports

Target Storage

Dell EMC VNX 5700, 1 array

Number of Hosts

10

Host Types

Windows, Linux

Host Applications

Oracle RAC, MSSQL,
Lotus Notes

Replication Type

Local

Number of Appliances

2x CMO appliances at each of
two sites

Insertion Method

Storage Side

CHALLENGES

- Production environment that runs 24/7 with no downtime planned
- Application server farm is diverse, with Windows SQL, Linux Oracle RAC, and VMware client hosts
- Zero tolerance for any interruption or performance impact to production throughout the entire migration process
- Encountered resistance to any changes to host, switch or source storage

SOLUTION

- CMO appliances were deployed for migration without any changes to the environment, without downtime, and while applications were running
- CMO automated the data migration—mapping the entire SAN without any WWPN, switch, or storage LUN information being entered
- CMO drew an accurate SAN configuration diagram for visual verification of the environment
- Administrator created migration sessions using appropriate migration aggressiveness settings as determined by their user's needs

RESULTS

- Entire migration was completed in 30 days
- Cutover of all hosts was successful on the first attempt

ABOUT CIRRUS DATA

Cirrus Data Solutions Inc. is a leading technology provider of next-generation solutions for data mobility, specializing in block data migration and protection. The company distributes its solutions through systems integrators, managed service providers, channel resellers, and partners including HPE, IBM, Dell Technologies, Microsoft Azure, AWS, Hitachi, NetApp, Pure Storage, Infinidat, AEBS, AHEAD, CDW, SHI, Park Place, Presidio, ePlus, Insight, Computacenter, Sirius, WWT and many others. Cirrus Data Solutions is headquartered in Syosset, New York and has offices located in Dublin, Ireland, and Nanjing with sales and support offices in Boston and Chicago.

To begin your digital data transformation, [visit Cirrus Data Solutions online.](#)

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