

"This project would have been near impossible without Cirrus Data support and migration products. The collaboration between our reseller partner and Cirrus Data was excellent and was critical to this successful data center move."

-- Customer Representative

THE CHALLENGE

Drive innovation. Delight customers. Deepen your commitment to sustainability. All these goals are vital—but without the right storage solutions, organizations often find themselves engaging in tough tradeoffs rather than bold advancement. This is what led one of the largest electric motor manufacturers to take on an ambitious storage modernization. The End-User wanted to sunset aging Dell XtremIO and Unity storage arrays and adopt modern Dell PowerMax NVMe All-Flash arrays inside a new data center. This migration project promised to improve performance and efficiency, enabling more innovation and superior service for the manufacturer's customers.

Nine months. That's how long the End-User's team had to migrate a complex variety of hosts, applications, and VMs from many vendors from the legacy data centers to the new data center across the state. The End-User serves global customers, needing to execute this storage modernization with minimal downtime. This paired with the complexity of the storage environment meant a remote migration was required—but how would the IT team pull this off while also overseeing their many other strategic projects?

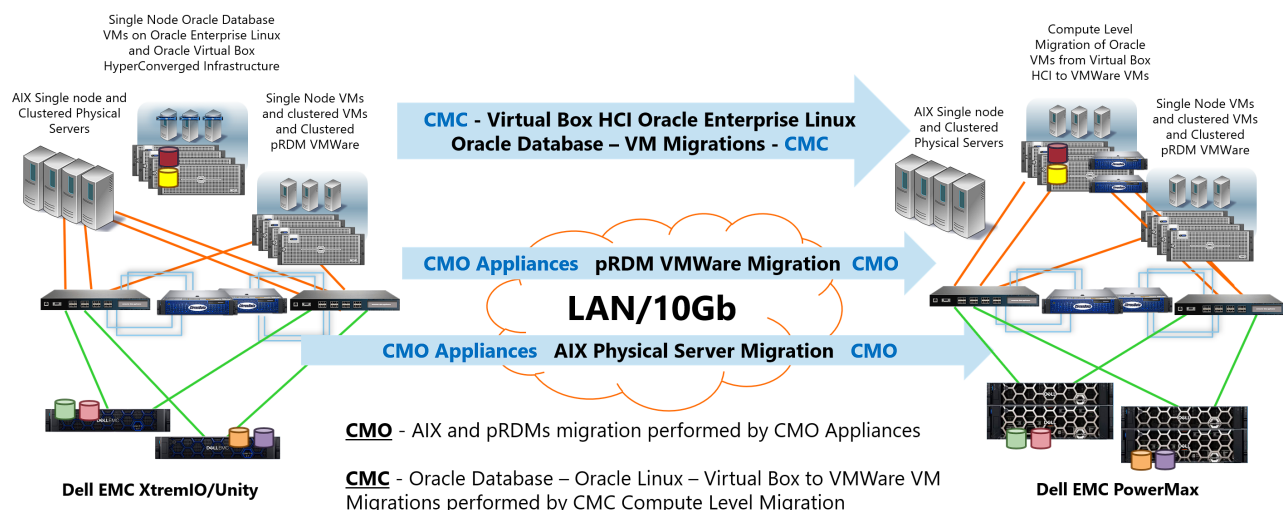
THE SOLUTION

The End-User needed a data mobility partner with technology flexible enough to handle a multi-vendor migration and the expertise to tackle any issues that arose. The End-User's trusted reseller partner recommended Cirrus Data on both counts. Cirrus Data's solutions had any-to-any connectivity to

migrate all the End-User's AIX, Linux, Oracle, Windows, Oracle Virtual Box, and Oracle Enterprise Linux hosts and applications without disrupting the service that the End-User's customers depended on. Based on the reseller partner's reference, Cirrus Data's professional services team had the experience and expertise to perform the entire data center migration.

The Cirrus Data team deployed Cirrus Migrate Cloud and Cirrus Migrate On-Premises to seamlessly migrate all the hosts and applications to new Dell EMC PowerMax NVMe storage with zero impact to the customer's live systems. While planning this migration, the Cirrus Data team learned the End-User's Oracle databases were running on a combination of SAN storage, Virtual Box, and Oracle Enterprise Linux. This meant its virtualization engine did not allow for SAN or host-based migrations without lengthy downtime. To avoid this, the Cirrus Data team facilitated a VM-Compute-level migration for the Oracle Virtual Box environment to a more supportable hyper-converged environment on VMWare -- all while maintaining the Oracle databases' consistency.

By working closely with the End-User, the Cirrus Data team completed the storage refresh and data center migration within the nine-month timeline. In addition, Cirrus Data's any-to-any integration made it easier to automate data synchronization and rigorously test the new storage environment, expediting the cutover from the old data center to the new with minimal data center cutover downtime, i.e. a reboot.. Today, the End-User's new data center has the high performance and efficient storage they require to provide strong service to their global customers.



QUICK FACTS

Customer Type

Global Motor
Manufacturer

Customer Sector

Manufacturing

Source Storage

Dell EMC XtremIO / Unity

Target Storage

Dell EMC PowerMax
NVMe

Number of Hosts/ Clusters

200 hosts, multiple
multi-node clusters

Host Types

AIX, Linux, Oracle,
Oracle Enterprise Linux,
Windows

Host Applications

Oracle and various
applications that
supported business units

Replication Type

Remote

Number of CMO and model

8 x CMO8000

Insertion Method

Path Insertion

CHALLENGES

- Decommission aging storage in legacy data centers where contracts were expiring, while migrating to a new data center across the state -- all while minimizing costly downtime
- Execute a remote migration of a complex variety of hosts, applications, and VMs in only nine months
- Manage migration complications from Oracle databases that were running on a combination of SAN storage, Oracle Enterprise Linux, and Oracle Virtual Box

SOLUTION

- The customer took the recommendation of their trusted partner, headquarters in the Chicago Area, and contracted the Cirrus Data's professional services team to manage the entire data center migration, trusting their expertise and the any-to-any connectivity of Cirrus Data technology
- Cirrus Professional Service team was selected to be the required expert data migration professionals to manage, coordinate, and execute the data center migration so the company's internal experts could focus on strategic projects
- The Cirrus Data team deployed Cirrus Migrate Cloud and Cirrus Migrate On-Premises to seamlessly migrate all the customer's AIX, Linux, Oracle, Oracle Enterprise Linux, Oracle Virtual Box, and Windows hosts and applications from Dell XtremIO and Unity Arrays to new Dell EMC PowerMax NVMe storage without impacting the customer's live systems
- To navigate the virtualization issues with the Oracle databases, the Cirrus Data team worked with the customer to enable a VM compute-level migration for the entire Oracle Virtual Box environment to a more reliable hyper-converged environment on VMWare

RESULTS

- The Cirrus Data team worked with their trusted reseller partner and the customer to complete the storage refresh and data center migration within the nine-month timeline -- minimized cutover to the new data center downtime and empowering the customer's internal team to prioritize strategic projects
- Cirrus Data's any-to-any integration and communication enabled the automation of data synchronization and rigorous testing of the storage environment, expediting the switch from the old data center to the new, before the expiration of the contracts in the source data centers
- The VM-level migration of the Oracle Virtual Box environment both simplified the cutover to the new data center and converted the VMs from Virtual Box to VMWare while maintaining all Oracle database consistency
- Customer has harnessed improved efficiency and performance from its new data center's Dell PowerMax arrays, enabling superior customer service

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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