DELL | EMC STORAGE SOFTWARE PRODUCTS

Dell/EMC CX Series Software Benefits Brief

- Powerful storage management with Dell IT Assistant and EMC Navisphere® that enables you to easily manage, discover, monitor and configure Dell/EMC systems from a Web browser virtually anytime, anyplace.
- Advanced information replication software that offers multiple choices such as local or remote and synchronous or asynchronous.
- Replication capabilities that are compatible with industry-standard application snap technology along with open, cross-platform source/target replication.
- Point and click storage and infrastructure management with VisualSRM software.

Software Functionality that Provides Powerful Management Tools and Advanced Replication for the Dell/EMC network storage CX Series

When it comes to having a storage system that meets the needs of your organization's data management, the right software can help you get the most value out of your investment, not to mention enhance the performance and functionality of your solution. Now, more than ever before, Dell offers a full suite of advanced storage software, including an integrated monitoring console for Dell IT Assistant and EMC Navisphere Manager.

From management capabilities that help you stay in control of your entire storage infrastructure to advanced replication tools that protect your organization's valuable data, we have software optimized to work with your Dell/EMC storage systems. Our vision is to bring you the ultimate technology to help you manage your information at the lowest cost with the greatest possible ease and simplicity.

Navisphere – The Starting Point for an Automated Information Infrastructure

The EMC Navisphere Management Suite helps simplify and automate the management of your storage infrastructure through a browser-based GUI application. With Navisphere Management Suite, you can securely discover, monitor, tune and provision storage on multiple Dell/EMC storage systems from virtually anywhere, at any time.

Learn more about the power of the Dell/EMC partnership at www.Dell.com/EMC

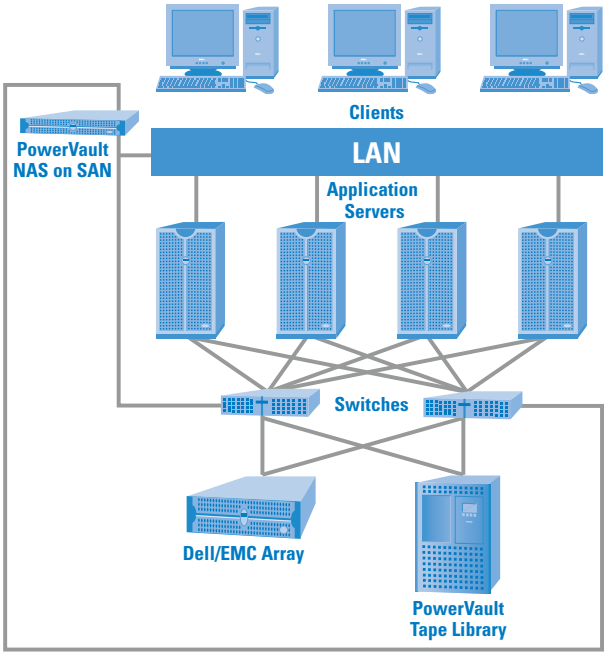
Dell/EMC CX3-10c

Dell/EMC CX3-20

Dell/EMC CX3-40

Dell/EMC CX3-80

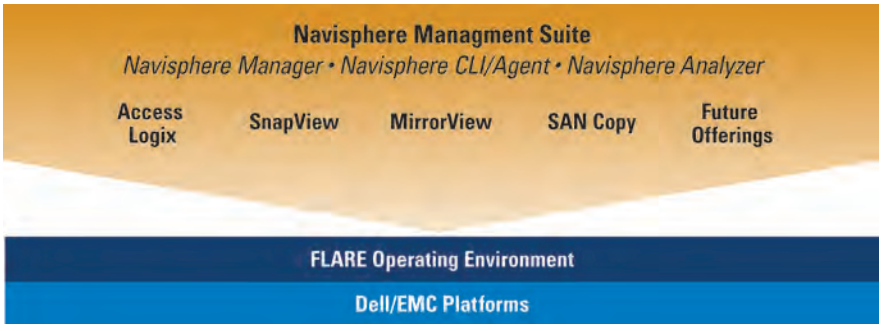
A Typical SAN Configuration



Further improving ease of management of your Dell/EMC arrays, the Navisphere Management Suite is integrated with version 8 of Dell's IT Assistant. The integration of IT Assistant software from Dell and EMC Navisphere allows top-level administration of key SAN elements through a single management console.

Navisphere is offered in three suites that scale with the performance levels of your Dell/EMC CX3 UltraScale series array: Navisphere Workgroup, Navisphere Departmental and Navisphere Enterprise. Included in these suites are all traditional "management" functions enabled by Navisphere Manager, as well as Logical Unit Number (LUN)-masking, host-to-array mapping and CLI scripting, which were formerly offered in separate products.

Navisphere Analyzer provides detailed realtime and historical performance information about your Dell/EMC array, allowing you to investigate performance patterns and trends before problems occur. Navisphere Analyzer technology is included with the Navisphere Enterprise Suite, or it can be purchased as a separate product.



VisualSRM – Point-and-Click Storage and Infrastructure Management

VisualSRM software offers point-and-click management of heterogeneous storage systems. VisualSRM is datacenter-class storage management software that provides centralized storage resource management for mid-tier storage environments. It supports a wide range of storage platforms (SAN, NAS and DAS), server platforms (Windows®, Solaris, AIX, HP-UX and Linux®) and enterprise applications (Microsoft® Exchange, Oracle® databases, Sybase databases and SQL Server™ databases). Plus, it integrates with leading storage management applications from backup and framework vendors such as IBM, Symantec, Hewlett-Packard, Computer Associates and BMC.

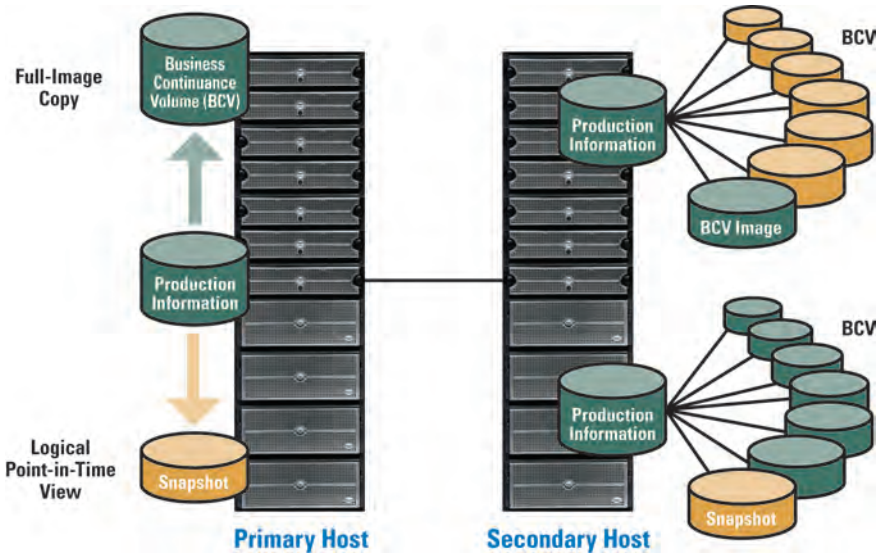
PowerPath – Helps Keep Your Critical Applications Online

EMC Powerpath® software provides application continuity in the event of an I/O channel failure. Properly configured, it offers multi-path access between servers and storage systems by automatically shifting the I/O load to surviving paths if one or more fails. Plus, it automatically resumes use of the failed paths after they are repaired. And PowerPath dynamically balances the I/O load over all channels which can enable more work to be accomplished in less time.

EMC SnapView – Accelerates Backup and Restore, Application Integrity and Application Development with One Software Product

SnapView™ software cost-effectively accelerates backup and recovery through disk-based "instant restore" of production data. SnapView creates point-in-time snapshots and full-copy business continuance volumes (BCVs) of data so that you enjoy non-disruptive backups. Restore information and applications in minutes versus the hours often required when using traditional tape-based methods. SnapView can help give you maximum availability and usability of critical data by:

- Enhancing application uptime through fast and easy restoration of enterprise information
- Accomplish restores or backups more quickly than tape drives and less disruptively
- Accelerate application development by providing current data for testing while allowing production data to remain in use simultaneously
- Gain operational efficiencies by enabling multiple servers or users to have read/write access to copies of production data without affecting production integration modules



DELL IT INFRASTRUCTURE SERVICES

Dell brings pure execution to IT Services. The planning, implementation and maintenance of your IT infrastructure deserves nothing less. Variability in execution can compromise user productivity, IT resources, and ultimately, your reputation. By leveraging our heritage of process driven excellence, Dell Services can deliver a smarter way.

We don't claim to do everything. We focus on IT infrastructure services. And we take a customer led approach, grounded in the philosophy that you know your business better than anyone. That's why Dell does not try to take key business decisions out of your hands, or lock you in to more than you need. Instead, we apply our world-class process management and "no excuses" culture to deliver what customers today most need –flexibility and repeatable quality. That's pure execution. That's Pure Dell.

Assessment, Design and Implementation Services
IT departments are continually challenged to evaluate and implement new technologies. Dell's assessment, design and implementation services can restructure your IT environment to enhance performance, scalability and efficiency while helping to maximize your return on investment and minimize disruption to your business.

Deployment Services
System deployment is a necessary evil that plagues nearly every organization. You must deploy new systems to help improve performance and meet user demand. With Dell's deployment services, we help simplify and speed up the deployment and utilization of new systems to maximize uptime throughout your IT environment.

Asset Recovery and Recycling Services
Proper disposal, reselling and donation of computer equipment is a time-consuming task that typically falls to the bottom of many IT to-do lists. Dell simplifies the end of life processes for IT equipment in a way that can maximize value for customers.

Training Services
Arm your employees with the knowledge and skills they need to be as productive as possible. Dell offers comprehensive training services which include hardware and software training, as well as PC skills and professional development classes. With Dell training you can help improve system reliability, maximize productivity, and reduce end user requests and downtime.

Enterprise Support Services
With Dell, you can get maximum performance and availability of your Dell server and storage systems. Our Enterprise Support services offer proactive maintenance to help prevent problems as well as rapid response and resolution of problems when they do occur. We have built a robust global infrastructure that offers multiple levels of enterprise support for systems throughout your infrastructure.

To help you get the most from your Dell systems, visit www.dell.com/services.

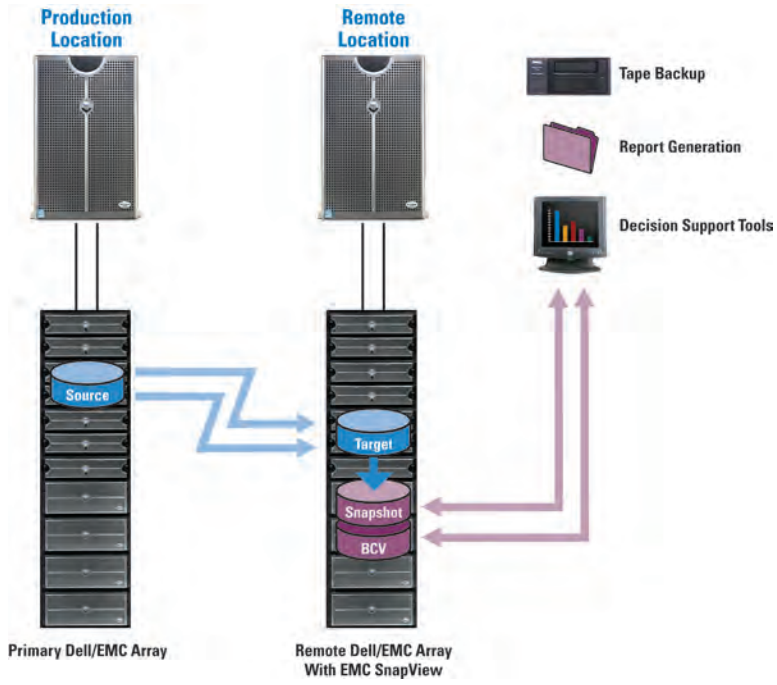
Services vary by region.

EMC MirrorView - Gain productivity while maximizing data availability through advanced synchronous and asynchronous remote disaster recovery

MirrorView™ software provides highly available data storage across campus, across the state or across the globe. By maintaining synchronous or asynchronous data mirroring between Dell/EMC CX arrays, MirrorView helps ensure data availability for important business functions. MirrorView is an array based application, designed to minimize the impact to your server while maximizing data uptime. MirrorView also integrates with EMC SnapView™ point-in-time snapshot software. Together, MirrorView and SnapView provide a unique solution for online data availability and disaster recovery.

MirrorView/S maintains an exact byte-for-byte synchronous copy of your production data in a second location for fast fast recovery time if a disaster does strike. MirrorView/A provides the ability to mirror data over longer distances and help reduce network costs. Mirrored copies can be used for failover, online restore from backup and running backups against a SnapView™ snapshot of the remote mirror With the launch of FLARE 26, MirrorView can operate over either the Fibre Channel or iSCSI ports of your CX3 arrays.

MirrorView operates on the Dell/EMC arrays. By off-loading the mirroring process from the server to the array, the server is free to service application I/Os, instead of managing the data replication process. And, because the Dell/EMC arrays are redundant, MirrorView helps protect your data, applications, and business from a wide array of potential disruptions.



Learn more about the power of the Dell/EMC partnership at www.Dell.com/EMC

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