Simplify, Accelerate, and Automate the Deployment of Information Replication Throughout the Enterprise

The EMC® ControlCenter™ family of storage management software enables you to simplify and automate the management of your multi-vendor networked storage environment through a single, consistent information-centric approach. EMC Replication Manager, an integral part of the ControlCenter family, is a paradigm-changing way of managing all your information replication needs. It helps reduce the amount of time, resources, and expertise involved with integrating and managing disk-based replication technologies. Operating in combination with replication technologies, such as EMC TimeFinder™, EMC SnapView™ and HP StorageWorks clones, Replication Manager is designed to dramatically simplify and accelerate the management and use of local disk-based replications. Replication Manager helps you create greater business value from your information.

Simplify, Accelerate, Automate, Replicate, Repurpose

IT infrastructure management is becoming ever-increasingly complex. Twenty-four by seven information access, multi-terabyte databases, and the availability of the skilled staff to manage and support these infrastructures are some of the challenges you face within your enterprise. Replication Manager is the ControlCenter application that helps you to reduce complexity, provide better IT support for the business, and improve the flow of information throughout your enterprise.

The Big Picture

▶ Helps eliminate complex scripting involved with integrating replication technology and existing application environments
▶ Automates the discovery of storage, host, and application components in your environment
▶ Automates the mounting, dismounting, scheduling, and expiration of replicas
▶ Records and catalogs all information and activities for replicas
▶ Enables fast reaction to repair or recovery needs in the event of corrupt or lost information
▶ Manages complex operations of multiple storage domains, applications, and replication environments from one console

Visit www.dell.com/emc for more information.
Among the tasks Replication Manager helps dramatically simplify and accelerate are automated scheduling of replications, mounting replications to alternate hosts, and automated discovery of devices that need access to replications. It can also significantly improve recovery from disk of files, file systems, and databases used for repair, quality assurance, backup, testing, and reporting.

Replication Manager helps eliminate complex scripting and mapping of file systems and applications to storage and replaces them with an intuitive point-and-click interface, menu screens, pull-down menus, and wizards. Thus, it can easily be operated by IS staff responsible for applications and not necessarily by storage or replication experts. This enables a much more productive use of an organization’s limited resources to respond to all the critical tasks that add value to your business.

Replication Manager’s Java-based management console can be operated from a local terminal or securely over the Internet.

**A Better Way to Manage Your Information**

The phone rings at 3:00 a.m. It’s one of your third-shift IS staff. You’re told that a database critical to running your business has been corrupted. Until it’s fixed, employees and customers will have no access to the information necessary to transact business resulting in lost revenue. Twenty minutes later, the database is repaired and you’re back in bed resting peacefully.

Sound impossible? Not with Replication Manager. You call your DBA, who logs in from home to identify the problem. Using the Replication Manager catalog, the DBA has easy access to the last scheduled copy of the production database. (Replication Manager enables the scheduling of disk-based backups of selected file systems and databases as often as your business demands.) The DBA then uses the Replication Manager auto-mount facility to mount the required copy of the database to a test machine and brings up the database immediately. Out of harm’s way, the DBA can probe the database and validate the problem to create a fix.
The Replication Manager GUI is then used to automate the recovery of the repaired information back onto the production system. At no time does the DBA need to have the storage administrator create a replication copy or require a systems administrator to mount the copy to or from the test machine. The DBA can complete this procedure without knowledge of the operating system, file system, or replication software’s command line interface and scripting language. Replication Manager allows the DBA to be self-reliant. It provides a level of application, operating system, file system, storage, and replication software transparency.

Contrast this scenario with that of a traditional tape-based backup/restore procedure where databases are instantly backed up using replications, and then serially transferred to tape using a tape format. A tape management system is not tracking logical information that is still replicated on disk and recovery must be from tape, increasing the recovery time and interrupting business in the process. In addition, tape-based backup may be in a proprietary format and the media can be extremely slow to mount and dismount. The database is also subject to mishandling and delays, potentially extending exposure to loss of business and customer satisfaction.

Replication Manager relies upon disk-based replicas (mirror copies) as the foundation of the recovery operation. Replicas can now be used for granular backup and restore of table spaces and file systems or for simplifying and automating data refreshes in development testing, quality assurance, and reporting cycles.

**Replication Manager Can Enhance the Value of Your Infrastructure**

With Replication Manager, you may be able to leverage fewer people across more complex tasks, such as replication, helping to enhance the value of your IT infrastructure. Availability can also be improved because the complexity of deploying and managing replications and the subsequent recovery from them can be reduced. For example, a DBA can validate the integrity of a database or create a new view for users.

Your systems administrators can upgrade or patch a system - all with a quick and easy way to create a backup to be used in the event of a problem with the patch or corruption in the database. Replication Manager helps you to increase the efficiency and effectiveness of your storage environment by easily moving information between different media types, such as large disks, small disks, and tape, allowing for policy-based activities.

**Repurposing Your Information for Business Advantage**

Repurposing is the ability to use (or re-use) information for new duties other than for those originally intended. For example, a customer profile database used for warranty information might be repurposed for the marketing of new products. Replication Manager allows you to leverage your information storage infrastructure for the easy creation, separation, and reassignment of files and databases elsewhere in your infrastructure. Replication Manager puts this functionality where it can be of most value - inside your storage infrastructure - and makes it available to those who need it, your IS staff responsible for the applications and databases that run the business. What this can mean is a more capable and productive IS organization with access to the tools necessary for accelerating time-to-market, generating revenue, and enhancing customer satisfaction.

**DELL ENTERPRISE SERVICES**

By leveraging the proven advantages of our direct model, including tailored service and support, low cost and a single point of accountability, Dell Services can provide you with fast, effective, affordable service offerings at any point in your IT process. Whether you need professional consulting, training and certification, deployment, or support services, Dell promises to be your single point of accountability at all times.

**Professional Services**

Dell Professional Services enables Dell customers to optimize ROI by leveraging complex technology through the design, development and deployment of innovative, robust and scalable business-critical solutions. With each engagement, we utilize our proven methodology and project management expertise to understand your business objectives, design plans that are flexible to adapt to your current environment and then deliver the desired results.

**Deployment Services**

We bring you deployment assistance that delivers true value from beginning to end. Dell can tailor systems to our customers’ specifications by customizing the hardware and software configuration during the initial system-build to reduce redundancy and time. We can manage the delivery, installation and disposal of your assets with the same eye for efficiency.

**Training and Certification Services**

Our approach to Training and Certification allows you to outsmart your competitors - not outspend them - with industry standard learning across Dell hardware and industry standard software. Dell can assist you wherever you need us, whether on-site, on-line or in a classroom setting, to help your organization take full advantage of information technology.

**Enterprise Support Services**

Technology is a significant investment, and it pays to have a partner who can help you minimize costly downtime. Through our Enterprise Support Services offerings, Dell provides tiered support service packages with the flexibility to customize the offering to meet your specific needs across a wide range of computing environments. With proactive and reactive support options which include hardware and software support with varied response levels, account management, and remote resolution, Dell provides support solutions that meet your needs, cost effectively.

Services vary by region. For more information on the available services in your area, please visit www.dell.com.
Replication Manager

You Manage Your Infrastructure, It Doesn’t Manage You
Replication Manager operates through an intuitive GUI interface featuring pull-down menus and icons. It looks and feels like many familiar web-enabled applications. Because of this simplicity and the policy-based management this tool implements, Replication Manager functions can be initiated and used by the IS personnel you designate.

EMC Replication Manager Is Just the Beginning
Replication Manager works together with other ControlCenter applications to provide an end-to-end solution for storage resource, network, and device management. As your needs change and grow, the ControlCenter family of storage management applications grows with you, providing a powerful set of automated storage management capabilities.

Take the Next Step
For more information on EMC Replication Manager, contact your Dell sales representative or visit our website at www.dell.com.

Visit www.dell.com/emc for more information.