Symantec™ Dynamic Multi-Pathing

Heterogeneous Storage Path Management

Data Sheet: Storage Management

Overview

Symantec™ Dynamic Multi-Pathing delivers improved storage I/O performance and availability across heterogeneous server and storage platforms using intelligent algorithms and load balancing for faster throughput. In the event of a storage path failure, Dynamic Multi-Pathing will reroute I/Os to other available data paths, increasing application availability and automatically restoring failed paths that become healthy. Dynamic Multi-Pathing may also be centrally managed through the included Veritas™ Operations Manager, easily facilitating common activities such as array firmware upgrades and pro-active path management. Dynamic Multi-Pathing's load-balancing and management capabilities enhance administrators' productivity, improve overall storage performance, increase application uptime, and bridge storage and server administrator communications. Dynamic Multi-Pathing is available as a stand-alone product that works with all major operating systems' volume managers and file systems. It is also a feature of SymantecTM Storage Foundation, which includes Volume Manager and File System.

Highlights

- Increased data availability—Provides storage path failure protection and fast failover
- Optimized I/O performance—Spreads I/O across multiple storage paths for maximum performance
- Reduced complexity and increased
 efficiency—Centralizes storage path management
 regardless of operating system or storage hardware
- Storage connectivity virtualization—Increases storage hardware choices
- Opens communications between server and storage administrators—Allows more informed storage decisions based on global visibility

Increased data availability

As more workloads become business critical, so does data availability. If a path to a multi-path storage subsystem fails,

Dynamic Multi-Pathing automatically reroutes I/O requests to an alternate path transparently without requiring administrator intervention. When a failed path returns to a healthy state, the software restores the original path configuration automatically. With intelligent probes, Dynamic Multi-Pathing proactively monitors storage paths to identify failing paths before I/O is sent down the right path, thereby providing maximum availability and performance.

Optimized I/O performance

Maintaining and improving system and application performance is an ongoing challenge. Dynamic Multi-Pathing enhances I/O performance by distributing the storage workload across all available paths, according to predefined load-balancing policies. An administrator can select one of several policies, depending on the characteristics of the I/O workload, storage area network (SAN) layout, and performance needs while keeping systems online.

Reduced complexity and increased efficiency

If an IT organization is locked into a single storage vendor, it is likely that they are paying a premium for storage. By fully virtualizing connectivity from the host to storage, Dynamic Multi-Pathing increases data center agility and provides flexibility in choosing a storage vendor. A storage administrator benefits by being able to choose the type of storage hardware that best suits the organization's needs, knowing that the multi-pathing driver on the host either already supports that storage hardware or can easily be enhanced to support it. Dynamic Multi-Pathing supports more than 1,000 different storage array models from all of the leading vendors.

Storage connectivity virtualization

Managing the complex web of multiple data paths can be difficult due to decreased visibility and disparate pathing tools. Operations Manager enables central management, monitoring and reporting across all Dynamic



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Multi-Pathing paths in a data center. Operations

Manager centralizes path management across multiple server
platforms to provide complete visibility into application,
server, and storage resources. It further assists operators and
administrators when they perform multi-pathing tasks. For
example, by using a guided workflow, Dynamic Multi-Pathing
reduces the complexity of managing thousands of I/O paths in
case they need to be temporarily disabled for array
maintenance.

Opens communications between server and storage administrators

The lack of a common language or reporting between systems and storage administrators can lead to confusion and misalignment. Combined with Operations Manager, Dynamic Multi-Pathing allows deeper visibility and reporting. It has the ability to discover and report more meaningful attributes of a device to the system administrator that traditionally were only visible to the storage administrator. This allows administrators to make more informed decisions, as well as allowing the system and storage administrators to refer to the same device names. Dynamic Multi-Pathing solves key challenges in device naming by using array specific identifiers in the device names, making them more meaningful and consistent. This reduces errors and enables more accurate troubleshooting.

Supported operating systems

- Oracle® Solaris™
- IBM® AIX®
- Red Hat® Linux
- SUSE® Linux
- HP-UX®
- Microsoft® Windows®

More Information

Visit our website

http://enterprise.symantec.com

To speak with a Product Specialist in the U.S.

Call toll-free 1 (800) 745 6054

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Symantec World Headquarters

350 Ellis Street

Mountain View, CA 94043 USA
+1 (650) 527 8000
1 (800) 721 3934

www.symantec.com

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