

## Hitachi HiCommand® Path Provisioning Software

Automating storage provisioning by offering end-to-end, rules-based provisioning of heterogeneous storage capacity, Hitachi HiCommand® Path Provisioning software helps you to quickly bring new projects and applications online.

### HiCommand Path Provisioning Software—Automatic, Efficient Storage Resource Provisioning

Provisioning storage from servers through the storage area network (SAN) to your storage system can be a tedious and error-prone process. Often storage administrators struggle with different point tools and record each configuration along the path manually on a spreadsheet or white board. Security breaches, incomplete awareness of the total infrastructure, transcription errors, and variations in the process slow things down. Your infrastructure loses efficiency and your documentation of it differs from reality.

HiCommand Path Provisioning software builds on HiCommand Storage Services Manager software's rich database of logical and physical storage resource information to automate the process of provisioning storage resources for your business-critical applications. By enabling you to perform end-to-end provisioning tasks at the host, switch, and storage system layers, and by providing a common interface from which you can provision a multivendor storage environment, Path Provisioning software brings you enterprise-wide benefits.

With Path Provisioning software, SAN architects can create rules that secure and "error-proof" your provisioning process. Intelligent Web forms enforce the rules your architects define, enabling administrators to perform fast, "one-touch" provisioning without the fear of making mistakes, noncompliance to storage policies, or breaching security policies. The HiCommand policy engine can also automatically trigger provisioning.

### Business Benefits

#### Ensure Application Availability

- ∴ Reduce risk of out-of-space outages with automatic or wizard-based storage provisioning.
- ∴ Eliminate downtime from provisioning errors by automating full-path provisioning.

#### Improve Administrative Efficiency

- ∴ Bring new applications online quickly and reliably.
- ∴ Reinforce enterprise-wide compliance to storage and security policies.
- ∴ Eliminate manual provisioning tools and methods to track usage and allocate storage.

#### Reduce Operational and Capital Costs

- ∴ Replace numerous point tools that are neither heterogeneous nor well integrated.
- ∴ Reduce the amount of time and money spent allocating storage capacity by automating the complete process.
- ∴ Protect storage infrastructure investments by adopting the SMI-S industry standard.

### Feature Highlights

#### Application-to-spindle Provisioning

- ∴ Host, host bus adapter (HBA), SAN switch, and storage system provisioning
- ∴ Application-level object provisioning
- ∴ Heterogeneous logical unit number (LUN) mapping
- ∴ Automatic zone creation
- ∴ HBA installation

### Application Optimized Storage™ Solutions: Bring New Applications Online with the Right Amount of Storage, Quickly and Easily

To Hitachi Data Systems and members of the Hitachi TrueNorth™ Channel Partner Program, Application Optimized Storage™ solutions mean more than storing your data securely. By using HiCommand Path Provisioning software in your network, you can simplify storage management, improve operational efficiency, and ensure that your applications never run out of capacity—another example of how these solutions optimize storage capabilities to support business operations.

#### Complementary Solutions

- ∴ HiCommand QoS for Microsoft Exchange software
- ∴ HiCommand QoS for Oracle software
- ∴ HiCommand QoS for File Servers software
- ∴ HiCommand Chargeback software
- ∴ HiCommand Device Manager software

## Rules Engine

- ⚡ Simplifies and error-proofs storage capacity allocation
- ⚡ Provides intuitive Web form that drives “one-touch” provisioning
- ⚡ Form enforces SAN architect’s rules, such as:
  - ⚡ Multiple path required
  - ⚡ Dual-path fabric required
  - ⚡ Restrict provisioning to existing zones
  - ⚡ Restrict certain provisioning operations to specific users

## Smart Forms

- ⚡ Leverages Storage Services Manager software’s auto-discovery and topology mapping.
- ⚡ Displays only the switches and storage systems that the host has been zoned to access.
- ⚡ Displays only the switches and hosts the storage system can reach, or displays only the switches and storage systems the host can reach.
- ⚡ Allows you to create custom provisioning templates with restricted options to limit provisioning beyond users’ roles or abilities.

## Flexible Provisioning Procedures

- ⚡ Automates provisioning through intelligent logical and physical asset associations,  
*OR*
- ⚡ Uses wizards-based operational assistance to provide the context for a standardization of heterogeneous provisioning.

## Broad Heterogeneous Device Support

- ⚡ Common interface for provisioning multivendor storage resources.
- ⚡ Increased administrator efficiency as a separate set of terms and operations are not required for each new storage device added to the network.
- ⚡ SMI-S standards compliance to ensure compatibility with new devices.

## Expanded Security

- ⚡ Provides secure access with existing Active Directory or Lightweight Directory Access Protocol (LDAP) enterprise authentication methods.
- ⚡ Enables and restricts provisioning rules with user provisioning profiles and tiered security levels based on user function and provisioning abilities.

## Prerequisites

### HiCommand Storage Services Manager Software

Storage Services Manager software is the main Hitachi console for HiCommand standards-based, heterogeneous storage infrastructure management solutions. Built on the SMI-S industry standard, it ensures broad support for multivendor storage environments that protect investments in both storage hardware and management solutions. As the base platform upon which Path Provisioning software builds, Storage Services Manager software allows enterprises to optimize heterogeneous storage infrastructures to meet business objectives and manage storage as an application-focused utility.

### System Requirements and Support Matrix

For a complete list of system requirements and supported hardware/software platforms, please visit: <http://www.hds.com/go/hicommandrequirements>

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