

BROCADE HOST BUS ADAPTER TECHNOLOGY LEADERSHIP



SERVER CONNECTIVITY

Managing Connectivity to the Storage Fabric

HIGHLIGHTS

- Brocade simplifies connectivity management by providing an end-to-end view of the Storage Area Network (SAN) infrastructure from the Host Bus Adapters (HBAs) to the storage ports for effective day-to-day management and troubleshooting
- The management portfolio offers a comprehensive suite of tools tailored to address the specific needs of SAN and server administrators
- Brocade tools fully support server virtualization, including virtual port management and visualization, as well as Quality of Service (QoS) levels for applications running on virtual machines

In a typical data center environment, the tasks of configuring and managing server connectivity to the storage fabric are shared by the server administrator and the SAN administrator. The Brocade® Host Connectivity Manager (HCM) is uniquely tailored to address the needs of server administrators, while Brocade Data Center Fabric Manager (DCF™) maximizes the productivity of the SAN administrator. Together, these tools offer an integrated end-to-end SAN management suite for the enterprise data center.

HOST CONNECTIVITY MANAGER

The Brocade HCM GUI enables server administrators to quickly configure Brocade HBAs, locally or remotely, and to perform common monitoring and management tasks. HCM also has a powerful Command Line Interface (CLI) for scripting and task automation. Administrators familiar with Brocade Fabric OS® (FOS) CLI will immediately be at ease with the familiar Brocade HBA CLI. Brocade HCM capabilities include:

- **SAN resource discovery.** HCM automatically scans the SAN to discover visible storage resources and enumerate target LUNs.
- **Tree view.** A navigation tree in the left pane provides quick access to the managed host HBAs, ports and target storage resources.
- **Scripting and automation.** Brocade HBAs and Brocade switches share the same scripting engine, enabling administrators to write powerful scripts to automate SAN configuration tasks from the server to the SAN and to verify and enforce compliance with enterprise policies. All operations performed with the GUI can also be scripted through the CLI.
- **Beaconing.** Port beaconing for easy identification of HBA ports and link beaconing to identify the switch ports connected to the HBA.
- **Easy access to HBA parameters.** A single management pane offers at-a-glance access to all HBA parameters.
- **Monitoring.** Brocade HCM port statistics monitors HBA performance and traffic between the HBA and the attached LUNs to help isolate and troubleshoot areas that impact application performance.
- **Diagnostics.** A battery of tests from the GUI and the CLI available to check the health of the HBA card, the optics, and the physical link to the fabric.

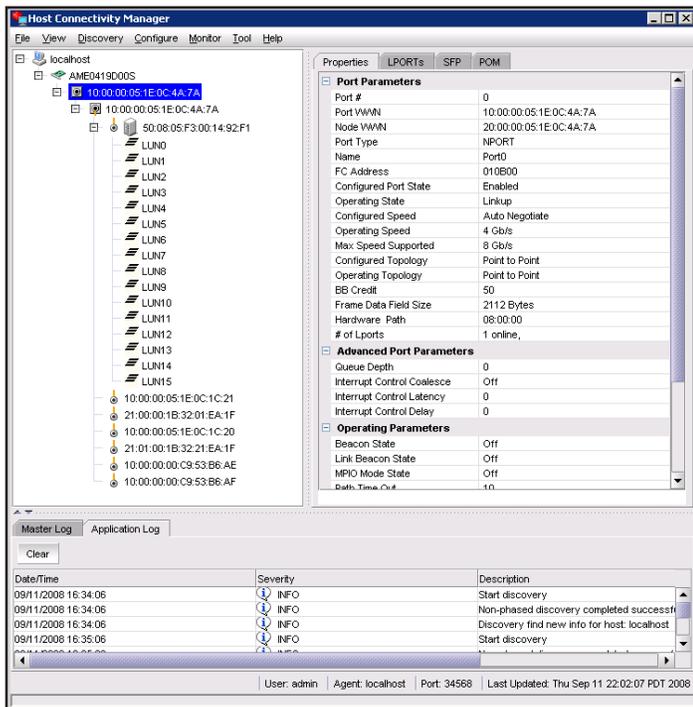


Figure 1. Brocade Host Connectivity Manager port properties view.

Brocade DCFM Enterprise manages and secures the flow of data across multiple fabrics—empowering organizations to achieve goals related to Service Level Agreements (SLAs), security, and compliance—while containing operating expenses. It offers the following capabilities:

- Centralizes management of Brocade fabrics within and across data centers, including those with different protocols
- Supports server virtualization, including visualizing and setting QoS levels for applications running on virtual machines
- Reduces expenses and maximizes productivity by automating tasks and providing easy-to-use, wizard-driven operations
- Administers SLAs via industry-leading monitoring, troubleshooting, diagnostics, and event notification
- Secures data flow from applications to storage across data center fabrics by managing user access controls and ensuring consistent security settings
- Delivers real-time and historical performance monitoring to enable proactive problem diagnosis, maximize resource utilization, and facilitate capacity planning
- Integrates seamlessly with leading third-party automation solutions to provide a holistic approach to data center management

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- **Built-in supportability.** A single click saves the current HBA and host configuration state into a file to help Brocade support staff troubleshoot problems remotely.
- **Logging and Audit trail.** Operations are saved into a log and all events are displayed in the HCM display panel (Figure 1, bottom of the window).
- **Virtualization** Management of N_Port ID Virtualization (NPIV) virtual ports from the GUI for use by virtual machines and applications. Virtual ports are represented in the tree view (Figure 1, left pane) for easy access and configuration, including access to QoS parameters associated with each virtual port.

BROCADE DCFM

Brocade Data Center Fabric Manager is a comprehensive fabric management application that enables SAN administrators to manage data center fabrics end to end. As a key component of the Brocade Data Center Fabric (DCF) architecture, Brocade DCFM Enterprise is designed for unified management of data center fabrics from storage ports all the way to the HBA ports attached to physical or virtualized servers. It configures and manages Brocade DCX™ Backbones along with Brocade directors, routers, switches, and HBAs.

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