

QLogic Control Suite (QCS)

Centralized Management of Cavium FastLinQ
10Gb Ethernet NIC, iSCSI, and FCoE Adapters



Streamlined Management and Optimized
Performance for Physical and Virtual Networks

KEY BENEFITS

- Centralized remote and local management of multiple adapters with at-a-glance status and performance dashboards reduces management time.
- Easily create network partitions (NPAR), allocate bandwidth, and assign protocols (NIC, iSCSI, FCoE) to optimize 10GbE bandwidth and increase performance.
- Optional wizard interfaces simplify adapter setup, configuration, diagnostics, and tuning.
- Implement network teaming, Smart Load Balancing™, LiveLink™, and fault tolerance for greater reliability.
- Simplified SR-IOV and NVGRE enablement for virtual and multi-tenant environments for increased scalability and performance.
- Supports all major operating systems and integrates with VMware® vCenter® for streamlined deployment.
- Easily save and restore configurations as editable XML files, reducing management time and speeding deployment.

EXECUTIVE SUMMARY

Cavium's QLogic® Control Suite (QCS) provides centralized management and control of QLogic FastLinQ® 3400 Series 10Gb Intelligent Ethernet Adapters and 8400 Series 10Gb Converged Network Adapters. Local and remote administrators can quickly perform diagnostics, view at-a-glance dashboards, and fine tune the performance of Cavium™ 10GbE adapters with Network Interface Card (NIC), iSCSI, and Fibre Channel over Ethernet (FCoE) functionality.

The intuitive interface provides simplified management across heterogeneous environments, including support for all major operating systems and integration with VMware® vCenter™. As a result, administrators can optimize physical and virtual network performance to meet application, workload, and service level agreement objectives.

SIMPLIFIED VIRTUAL NETWORK MANAGEMENT AND OPTIMIZATION

Relying on standard management tools to view and set up network and storage infrastructure is time consuming and can require the use of many different software utilities and interfaces. QCS provides an intuitive graphical user interface (GUI) along with a command line interface (CLI) for management flexibility, control, and at-a-glance status. Also, context-sensitive description panes and searchable help files further simplify use.

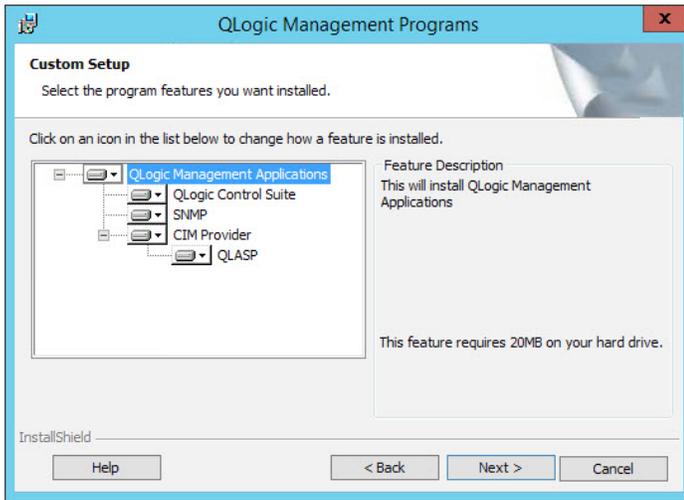


Figure 1. Cavium’s QLogic Control Suite (QCS) provides an intuitive user interface, enabling administrators to quickly optimize virtual and physical network performance.

ADVANCED ADAPTER PARTITIONING AND VIRTUAL NETWORKS

Cavium’s QLogic Control Suite (QCS) enables administrators to easily implement switch independent NIC Partitioning (NPAR) and virtualization of I/O using Single Root I/O Virtualization (SR-IOV) with Cavium 3400/8400 Series Adapters. QCS includes easy-to-use configuration wizards that provide step-by-step guidance to simplify the setup, configuration, and fine tuning of these valuable capabilities.

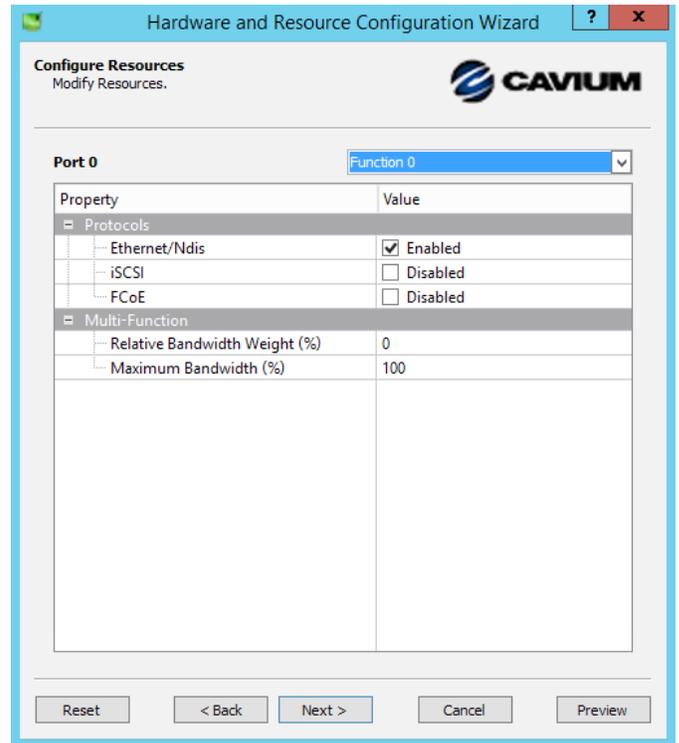


Figure 2. Cavium’s QLogic Control Suite (QCS) provides hardware and resource configuration wizards that provide step-by-step guidance to simplify and accelerate adapter deployment.

NIC TEAMING

Cavium’s QLogic Control Suite (QCS) also enables administrators to utilize advanced features including Smart Load Balancing™, LiveLink™, and failover for reliability. The Smart Load Balancing and Failover type of team provides both load balancing and failover. This type of team works with any Ethernet switch and requires no trunking configuration on the switch.

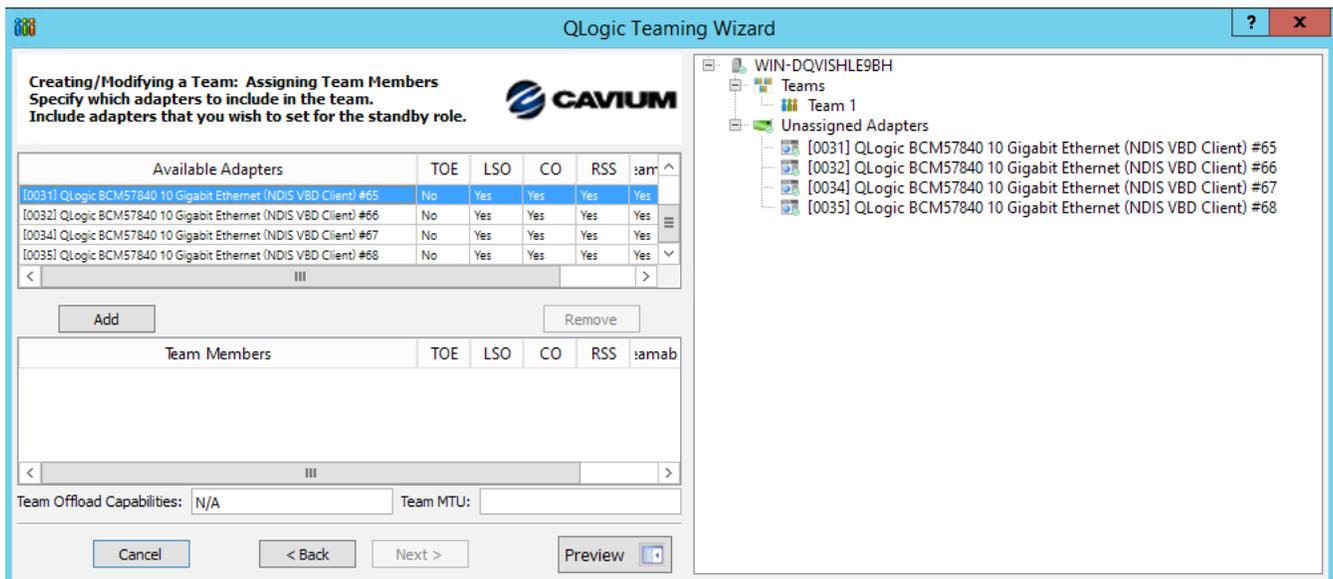


Figure 3. Integrated wizard enables administrators to easily implement teaming.

REMOTE MANAGEMENT TOOLS

Cavium’s QLogic Control Suite (QCS) enables administrators to centrally manage thousands of Cavium adapters via a single pane-of-glass from remote or local locations. In addition, QCS provides a powerful command line interface that can remotely access the adapter. It provides detailed performance statistics on selected adapter functions and includes multi-function controls for enabling storage capabilities, SR-IOV, and other parameters. A non-interactive CLI mode is ideal for scripting, while the ability to save and restore configurations as editable XML files reduces management time and costs.

DIAGNOSTICS AND TROUBLESHOOTING

Cavium’s QLogic Control Suite (QCS) GUI and CLI also enable administrators to easily run diagnostic tests per device to assist with performance tuning and troubleshooting in Windows and Linux environments. The ability to quickly capture key adapter information helps to expedite root cause analysis and quickly resolve an issue. QCS provides integrated reporting tools administrators can use to customize network views. Using the beaconing function helps them quickly identify an adapter within a server by flashing the adapter’s LEDs.

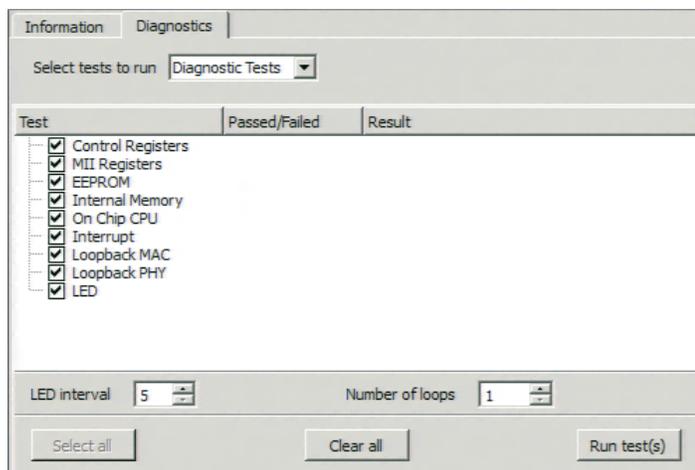


Figure 4. QCS enables administrators to quickly run diagnostic tests to assist with performance tuning and troubleshooting.

SUMMARY

Cavium’s QLogic Control Suite (QCS) provides administrators with powerful real-time views into their physical and virtual environments in order to centrally manage, diagnose, and optimize performance of Cavium FastLinQ 3400 Series 10Gb Intelligent Ethernet Adapters and 8400 Series 10Gb Converged Network Adapters. It also provides the ability to easily manage protocols, connectivity, and data flows to meet the needs of critical virtual machine workloads and service level agreements.

TRUSTED SOLUTIONS

Cavium is a global leader and technology innovator in high-performance server and storage networking connectivity and application acceleration solutions. The company’s leadership in product design and maturity of software stack make it the top choice of leading OEMs, including Cisco®, Dell/EMC®, Hitachi Data Systems, HPE®, IBM®, Lenovo, NetApp®, and Oracle®, as well as channel partners worldwide for their virtualized, converged, and cloud environment solutions.

ABOUT CAVIUM

Cavium, Inc. (NASDAQ: CAVM), offers a broad portfolio of infrastructure solutions for compute, security, storage, switching, connectivity and baseband processing. Cavium’s highly integrated multi-core SoC products deliver software compatible solutions across low to high performance points enabling secure and intelligent functionality in Enterprise, Data Center and Service Provider Equipment. Cavium processors and solutions are supported by an extensive ecosystem of operating systems, tools, application stacks, hardware reference designs and other products. Cavium is headquartered in San Jose, CA with design centers in California, Massachusetts, India, Israel, China and Taiwan.



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