

# Management Control System

GETTING COMPLEXITY UNDER CONTROL



## FEATURES AT A GLANCE

- Remote Management
- Web-Based Console and CLI
- System Monitoring and Reporting
- Effective Power and Thermal Management
- Easy Integration into Your Enterprise Environment

## PRODUCT OVERVIEW

Verari's Management Control System (MCS) is a system management appliance for deploying, configuring, monitoring and managing the servers, workstation blades, storage and related chassis components found in the BladeRack® 2 FE and FOREST Container platforms from Verari Technologies™. MCS was designed for "hands-off" remote management and is the centerpiece of Verari's data center management strategy. MCS provides a robust set of management services that can be accessed via a web graphical user interface (GUI) and comes with a native management console that delivers a comprehensive system management solution for your data center.

### DATA CENTER COMPLEXITY CONTINUES TO RISE

The industry is seeing larger, more dynamic environments that have scale-out and scale-up requirements with an explosion in the number of components to manage. These components include physical servers, virtual servers, storage and related infrastructure, along with a diversity of operating systems, applications and firmware. Add to this the need for power and thermal management as well as keeping track of inventory, including geographically remote assets. Complexity is driving Total Cost of Management (TCM) to more than 70% of the IT budget.

### REDUCING THE COMPLEXITY WITH EFFECTIVE SYSTEMS MANAGEMENT

MCS from Verari is an effective management solution that was purpose-built to address the complexity of the modern data center. For comprehensive management of Verari's BladeRack 2 FE and FOREST Container platforms, there is no alternative to MCS. It provides a native management console as well as a standards aligned management architecture that allow Verari solutions to be managed within an existing data center management environment.

### Extensible Open Architecture

MCS's standards-aligned architecture allows the server and storage platforms to be easily assimilated. Customers can integrate MCS easily into their management infrastructure or write their own CLI scripts to meet each company's own unique needs. Users can integrate common tasks via simple scripts in their choice of many languages (e.g., C#, Perl, Powershell).

### Web-based Console and CLI

MCS comes with a secure web-based GUI console for a user-friendly, intuitive interface for remote administration of the MCS management environment. For those who prefer a command line interface MCS also comes with a scriptable CLI that enables more customized management.

### Installation and Setup

MCS provides features that allow you to easily and quickly get your infrastructure configured and ready for production use. Through the MCS configuration utility users can:

- Setup Security Policy
- Setup metric reporting and events
- Configure KVM

### Remote Management

MCS provides lights out and "hands-off" data center management, eliminating the need for people to touch the rack. MCS enables system administrators to perform tasks on many servers, all at once, all remotely. MCS provides remote power management features and also allows the user to access and remotely control multiple computers or servers using the TCP/IP protocols with KVM over IP and Virtual Media support on selected nodes

### Monitoring and Reporting

MCS provides hardware-level monitoring for displaying the status of each blade as well as other rack infrastructure components. MCS can

detect and store reports on rack temperatures, rack fan speed, power status and more.

### Event Management

The occurrence of a predefined or a user defined change of state in the system is called an event. MCS provides the ability to monitor and log events that occur in the BladeRack 2 FE or FOREST Container platforms, and can be configured to send notifications via syslog or email.

### Security

MCS includes several mechanisms to protect network connections and to limit access to management features, such as:

- HTTPS
- AD/LDAP integration for authentication
- Granular control of user permissions
- Firewall protection

### CUSTOM CONFIGURATIONS

Verari Technologies supports multiple configurations and can tailor any system to your specific needs. If you have questions, please contact us today at (888) 942-3800 and ask to speak with a Verari Technologies Account Manager.

### ABOUT CIRRASCALE

Verari Technologies, Inc. is the premier developer of scale-out blade-based computing and storage platforms for Cloud, Web 2.0, and the global enterprise. Verari provides scale-out solutions for the world's largest data centers that reduce power and cooling demands while achieving the best density, availability, and energy efficiency for the highest total value of ownership. Organizations such as Virgin America, Morgan Stanley, Wachovia, Microsoft, Qualcomm, Johns Hopkins, EMC, CGGVeritas, Petrobras, Harris, Lockheed Martin, Northrop Grumman, and Sony Imageworks, as well as top universities and research institutions worldwide, are among the customers who have chosen Verari Technologies' award-winning containerized data centers and high density blade-based platforms.