Dell OpenManage Solution

I can help you manage your technology assets better

When you invest in business-critical enterprise systems, it is important to know how you will manage system problems proactively, before they become fatal, so vital systems are kept available and productive. For example, how you will use limited human resources more effectively by managing thousands of systems from one console or individually with direct access from virtually anywhere, at anytime; how you will achieve ultimate return on your investment by keeping system BIOS, drivers, configurations and operating systems up to date; and how you will ensure that new systems are contributing to the infrastructure and to your bottom line as quickly as possible and without interruption.

Dell™ OpenManage™ is designed to help you enhance your systems investment, anticipate problems before they occur, track your valuable IT assets and perform other tasks necessary to deliver information at the lowest possible cost.

This systems management solution is engineered, tested and proven to help you install, manage and integrate diverse systems from Dell with relative ease. This can help you become less reactive to the dynamics of today's fast-paced, ultra-competitive business environment and more proactive in efficiently managing your ever-evolving array of IT assets.

When you invest in world-class enterprise systems from Dell, enhance the value of your investment ... *manage the power* with Dell OpenManage.

Why choose Dell OpenManage?

- ► Streamlined, wizard-driven installation with patented formatting technology
- ► Easy-to-learn and easy-to-navigate interface, including flexible and intuitive discovery, event filtering and proactive alerts
- ► Optional direct management capability from virtually anywhere, at anytime
- ► Centralised inventory and asset information
- ► Built-in remote management, including full in-service or out-of-service access to the system
- ► Complete array management, including volume, disk, hot-spare and RAID-level controls

Management solutions. **Easy as** DELL™

Visit **www.euro.dell.com** for more information.

The Dell OpenManage interface is easy to learn and easy to navigate.

The Dell OpenManage Remote Assistant Card offers full management of systems, from around the corner or around the world.

Streamlined, wizard-driven installation

A bootable, stand-alone CD provides all the tools you will need to set up and configure new Dell™ PowerEdge™ server components and software, facilitating the Dell OpenManage server installation. This CD is supplied with every PowerEdge server at no additional charge. It can also be ordered via the Dell OpenManage Subscription Service. Key features include:

Setup and configuration – all the tools necessary for setting up and configuring Dell PowerEdge servers and software; the latest available drivers, optimised for use on Dell PowerEdge servers; automated detection and installation of RAID and NIC drivers.

Streamlined operating system installation – can significantly reduce the time required for installation of Microsoft® Windows® NT,® Windows, NetWare® and Red Hat® Linux® operating systems.

Utilities, drivers and diagnostics – a system tools utility that lets you view and create Dell software diskettes on any Windows 9x, NT or 2000 client, and delivers drivers, diagnostics and utilities that are optimised and tested by Dell.

Flexible and intuitive discovery, event filtering and proactive alerts

Dell OpenManage is a comprehensive standards-based solution for managing the server and client systems distributed throughout your organisation. The Dell OpenManage console monitors and manages Dell systems, using a browser-based user interface, providing system discovery, event logging and alerting.

Why use standards? Standards provide the infrastructure for communicating among your systems. Dell OpenManage is built on standards that provide a full and complete discovery of systems in the environment with desktop management interface (DMI) agents, common information model (CIM) agents and simple network management protocol (SNMP) agents.

Dell OpenManage also provides complete event management, including logging and filtering events based on user-defined criteria and actions that are based on filtered events. The proactive event notification includes alphanumeric paging and e-mail as well as the ability to launch applications based on events.

Centralised inventory and asset information

Using the Dell OpenManage tree structure to navigate to any system on your network, you can instantly access a summary of hardware-level information, including processor family and version, memory size and configuration, BIOS information, asset and service tags, operating system information plus NIC types and addresses.

System-asset information is also available, including purchase cost, date of installation, purchase order number, cost code, extended warranty information, depreciation data and more.

Dell OpenManage gives you the ability to compile inventory data for a single system or a group on the network into a report for printing or filing. It features an inventory report function that enables you to choose the assets for the server or group of interest and print or export the report to a file for use in another application.

Built-in remote management

Using a Dell Remote Assistant Card (DRAC) and Dell OpenManage, you can manage and monitor a PowerEdge server through a modem, direct serial connection or dedicated NIC. The combination of a DRAC and Dell OpenManage is designed to manage all states of the server, whether operational or down.

When the server is operational, you can manage servers in multiple locations from a remote console. You can also manage servers by redirecting the console output to a remote console, perform an orderly server shutdown for maintenance purposes, set up the server remotely and run configuration utilities and obtain system information remotely, including system name, model, status, BIOS and service tag.

When the server is not operational, Dell OpenManage and the DRAC address down situations, such as remaining in contact by using the onboard battery backup, diagnosing a server failure and restarting the server, resetting and cycling the server power from a remote location, accessing the server's internal logs to check the possible cause of a failure and alerting the administrator when the server detects an error.

Complete array management

In addition to monitoring and managing Dell systems, Dell OpenManage includes integrated storage management that auto-detects storage components, captures and logs events from all storage components and propagates storage status through server status icons.

Dell OpenManage array management lets you configure and manage local and remote storage devices attached to a server while the server is on-line and continuing to process requests.

It obtains data from the storage devices and the logical volumes contained on those devices. The array management tool displays storage configuration in both a physical and logical view. The physical view shows the physical connections between the storage devices. The logical view shows a logical representation of your storage.

The array management tool provides a single console for array and volume configuration, from which you can create and configure virtual disks (RAID arrays), manage RAID and non-RAID devices, create partitions and volumes, format disks and create file systems and assign drive letters.

Dell OpenManage array management can help automate your storage configuration for systems from around the corner – or around the world.

The Dell OpenManage array management automates your attached storage configurations and changes.
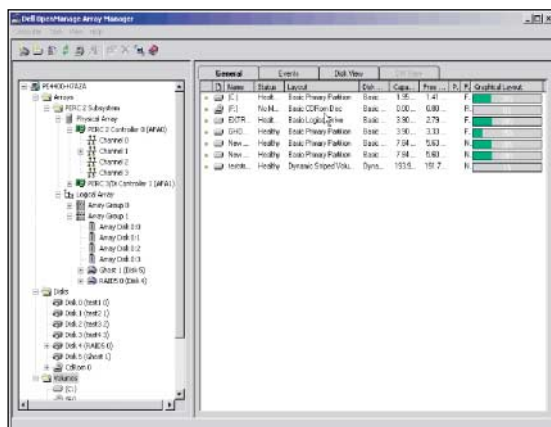
Easy as **DELL**™
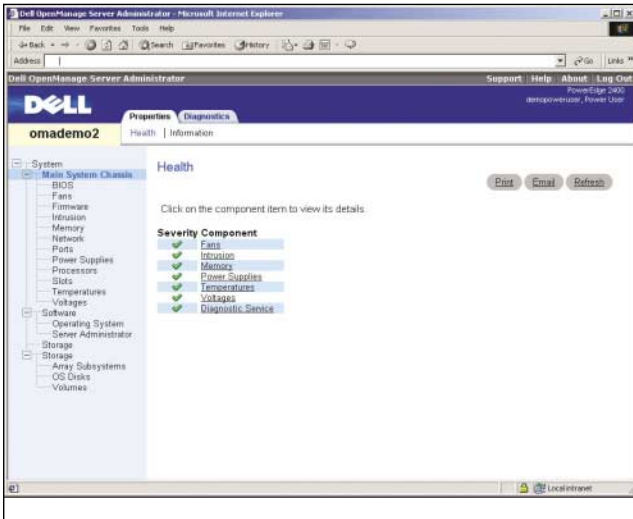
The Dell OpenManage Server Administrator for direct management virtually anywhere, at anytime.

Direct management capability from virtually anywhere, at anytime

OpenManage Server Administrator is a highly secure Web tool that enables you to manage a single server from virtually anywhere, at anytime, without going through a console. You can therefore determine how much space is left on your disks, what operating system and version is installed, whether or not you are taking advantage of the latest firmware, BIOS and how you can diagnose the server without shutting it down, who made a modification to the server last night, and what's installed in the server slots.

With Dell OpenManage Server Administrator, you can monitor the health of a system, access asset and inventory information, analyse logs, update firmware and BIOS and diagnose problems. You can do all of this from a Netscape® or Internet Explorer browser or from a command line, for a server running Linux, NetWare or a Windows operating system.

I can be integrated with several leading enterprise management suites

Dell OpenManage Connections enable a system administrator to easily manage Dell servers from some of the leading enterprise systems management applications on the market today, including:

- BMC Software® PATROL® (vendor provided)
- CA® Unicenter®
- HP® OpenView®
- Microsoft SMS®
- Microsoft Operations Manager (MOM) (vendor provided)*
- NetIQ® AppManager (vendor provided)
- Tivoli Enterprise Console®

Where applicable, Dell OpenManage Connections provide:

- Dell system discovery and status management – determines if the system is a Dell system, displays it as such in the framework, and reflects its status
- Application launch – launches Dell OpenManage and Integrated Hardware Vendor (IHV) applications in-context to manage Dell systems
- Event management – receives SNMP traps and DMI notifications and translates them into easily understandable text strings
- Asset and inventory management – remotely gathers detailed asset and inventory information from all Dell systems on a network

Dell OpenManage Connections vary by region.

Management solutions. **Easy as** **DELL**™

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