Dell™ Uninterruptible Power Supply (UPS) Management Software incorporates two important applications for managing Dell UPS and Dell intelligent Power Distribution Unit (PDU) products through a single, web-based interface:

- **The Dell Multi-UPS Management Console (MUMC)**: Designed for multi-host server environments, Dell’s console facilitates easy and versatile monitoring and management across the network from a single interface. MUMC also provides agentless integration into multi-host managers.

- **The Dell UPS Local Node Manager (ULNM)**: Created for single-host environments, Dell’s node manager provides graceful, automatic shutdown of any UPS, load segment or connected device during prolonged power disruptions, preventing data loss and saving work-in-progress.

Use each software application independently or as a powerful combination together. The Dell UPS, MUMC and ULNM provide comprehensive power management for optimized availability and data integrity.

When it comes to managing power on the network, one missed anomaly or malfunctioning power device can bring everything to a halt. Keeping an eye on the status of power devices across the network, and intervening before a power event cascades into a catastrophe, is top priority.

### Benefits of Dell Multi-UPS Management Console

A complete set of capabilities is provided with MUMC:

- Ability to monitor and manage multiple power and environmental devices from a Web browser.
- Allows virtual machine shutdown for VMware® high availability (HA) clusters using Remote Virtual Machine Shutdown (RVMS)
- Creates virtual composite groups of UPSs to manage redundant installations as one device
- User-definable tree structure enables grouping, access and management of multiple devices across multiple locations
- Agentless control of multi-host VMware vCenter™ and Citrix® XenServer® installations
- Auto discovery of Dell UPS and Dell intelligent PDU systems on the network
- Power device asset management tracks moves, adds and changes of equipment
- All the functionality of an Enterprise-class monitoring solution is included at no charge or at a fraction of the cost
- Support for up to 32 UPS and PDU systems is included at no charge
Benefits of UPS Local Node Manager for single-host environments

Most UPS applications are designed to protect your network devices from power anomalies, including surges, sags and frequency variations. However, when the power goes out for longer than the available battery runtime, ULNM software facilitates automatic, graceful shutdown of computers – and servers powered by a UPS, saving all work-in-progress and ensuring data integrity.

Dell UPS Local Node Manager provides the following capabilities:

- Helps avoid data loss by automatically shutting down computers and virtual machines/servers powered by a Dell UPS during an extended power outage.
- Allows access through an easy-to-use interface from any PC with a Web browser.
- Controls host response to power events for virtualized systems using a hypervisor agent or VMA agent without vCenter.
- Acquires UPS information through local or network communication and can be easily deployed on many computers.
- Communicates with the protected device directly (by USB or serial) or through the network, using a Network Management Card (NMC).

Unique virtualization application capabilities of Dell UPS Management Software

Designed with virtualization in mind, Dell UPS Management Software can easily:

- Integrate with industry-leading Enterprise solutions from VMware, Citrix, Microsoft, Red Hat, and other Xen® open source platforms.
- Manage virtual machine shutdown without installing software on each virtual machine.
- Allow virtual machine shutdown for VMware HA clusters.
- Offer agentless control of multi-host VMware vCenter and Citrix XenServer installations.
- Manage virtual machine start/stop profiles through plug-ins (like VMware vCenter and Citrix XenCenter).
- Manage all virtual machine hosts across a network from a single management interface.
- Use advanced virtualization functions like vMotion™ and Microsoft Live Migration to move virtual machines to a recovery site in a power failure.

**Dell Multi-UPS Management Console**

- Google Chrome™ 17, 19; Mozilla Firefox® 3, 3.5, 4, 5, 7, 12, 13; Microsoft Internet Explorer® 6, 7, 8, 9, Opera™ 10, 11; Apple® Safari® 5.1.

**Dell UPS Local Node Manager**

- Red Hat Enterprise Linux® Version 6 U1, U2; Advanced Platform & Base Server Version 5.4 (U7), 5 (U6), 5.5, 5.7, 5.8.
- Novell® SUSE® Linux Enterprise Server 11 (latest SP), 10 (SP1); OpenSuse 11.4 (SP4), 11.2.
- Debian® GNU/Linux 5.0 (Lenny), 6 (Squeeze).
- Ubuntu® 10.04 LTS, 11.10, 12.04 LTS.

**Virtual environments supported**

- VMware ESX 4.0, ESXi 4.0, 4.1, 5.0 (VMware pay versions); Microsoft Hyper-V™ Server 2008; Hyper-V Server 2008 R2; Citrix XenServer 5.6.
- Microsoft SCVMM, Live Migration.
- VMware vSphere™ ESXi™, vCenter, vMotion.
- Citrix XenServer 5.6.
- OpenSource Xen® 2.6 on RHEL; 3.2 on Debian 5.0.
- KVM 0.12.12 on RHEL 6 or Debian 5.0.

**UPS and PDU models supported**

- All Dell metered and managed PDU models.

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1. To avoid network access conflicts, do not install the Dell MUMC on a machine that also hosts a Network Management System (for example, HP OpenView™, CA™ Unicenter™, ULNM, Eaton® Intelligent Power Protector, Eaton Enterprise Power Manager, Dell OpenManage™ Power Center, Eaton Network Shutdown Module and the Network Management Proxy.

2. To avoid network or serial port access conflicts, do not install the Dell ULNM on a machine that also hosts Dell MUMC, Eaton Intelligent Power Manager or Eaton Enterprise Power Manager, Eaton Network Shutdown Module, Dell OpenManage Power Center, Network Management Proxy, Personal Solution Pac, LanSafe and LanSafe Web View and Netwatch.

Learn More at [Dell.com/PowerEdge/Rack](http://Dell.com/PowerEdge/Rack)