Intelligent
Power Manager

Integrated power management
software for virtual environments
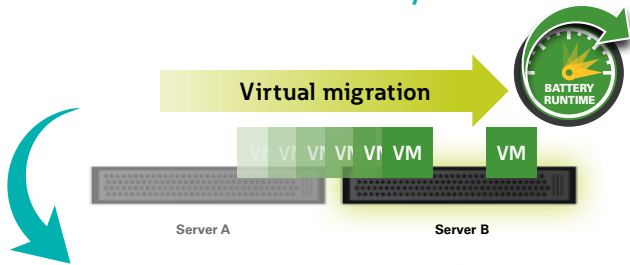
EAT•N

Powering Business Worldwide

Bridging the gap between physical infrastructure and virtual IT

Eaton® Intelligent Power® Manager software (IPM) integrates seamlessly with your power hardware to provide unparalleled business continuity capabilities. It manages all network connected power infrastructure devices, including UPSs and rack based power distribution units (ePDU®s), triggers virtual machine migration plans and shuts down non-essential devices in order to keep your business running during power and environmental events.

Ensure business continuity

Virtual migration — BATTERY RUNTIME

Server A — Server B

Automate business continuity

with flexible policies based on physical infrastructure events, including power and environmental conditions.

Define and execute sequential load shedding or disaster recovery policies for a VM, a vApp, or groups of VMs/vApps from directly within Intelligent Power Manager.

Workload management

Remotely and gracefully shut down servers and select storage devices during a power event.

Prioritise and shed non-critical loads to extend runtime during an extended power outage.

Trigger VMware vMotion, Citrix XenMotion and other migration applications to transparently move virtual machines to an available server on the network.

Failover

Trigger VMware Site Recovery Manager disaster recovery plans during a power outage.
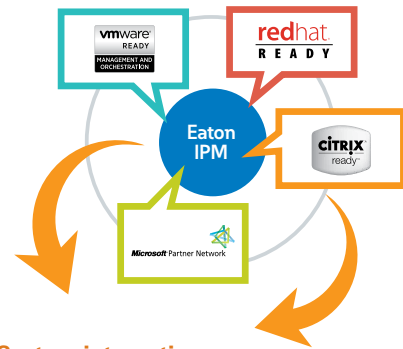
Power capping

Keep critical workloads running longer during a power outage by limiting server power consumption.

NEW

Install Eaton IPM and Infrastructure Management Pack for VMware vRealize® to manage the health, risk and efficiency of your power devices through vRealize.

Download at **www.eaton.com/downloads**

Improve efficiencies and lower costs

System integration:

Simplify setup and reduce the learning curve by conveniently integrating into existing virtual management systems, allowing you to spend time performing other critical tasks.

Remote agentless host management:

Conserve valuable time when remotely shutting down servers by eliminating the need for agents that consume resources and slow performance.

Integration into industry-leading virtualisation platforms

	VMware	Citrix	Microsoft	Red Hat
Create flexible business continuity policies triggered by power and environmental events	★	★	★	★
Shutdown virtual machines	★	★	★	★
Trigger live migration	★	★	★	
Manage virtual machines and power through a single pane of glass	★	★		
Real-time notification of power outages	★	★	★	
Virtual desktop infrastructure integration	★	★		
Shutdown a host in a cluster without installing software on each host	★	★		
Virtual appliance	★	*	*	*
Disaster avoidance, recovery site backup	★			
Cost	Free up to 10 nodes (UPS or ePDU)			

* OVF compliant; fully tested on VMware

Intelligent Power Manager capability by license

Intelligent Power Manager software offers three versions - a Basic edition, Silver license and Gold license.

The Gold license - our premium offering - provides the most complete set of capabilities including the ability to create business continuity policies triggered by third-party power devices in addition to Eaton equipment. The table below outlines the capabilities of each license.

Standard Power Management Features	Basic [Free] (Up to 10 Power Devices)	Silver (Up to 100 Power Devices)	Gold (More than 100 Power Devices)	Benefits
Protected Servers (IPP) and Virtual Servers	•	•	•	Gracefully shutdown servers
Storage Shutdown Module	•	•	•	Remotely shutdown selected NetApp FAS storage devices
Generic Drivers and Third Party Devices	•	•	•	Monitor 3rd party devices via a generic SNMP driver
Configuration Policy	•	•	•	Create power & environmental event business continuity policies for groups of devices
Control ePDU outlets	•	•	•	Enable policy based control of ePDU outlets
Advanced Event Action with Standard Events	•	•	•	Use standard power events in configuration policies
Advanced Event Action with Custom Events	-	•	•	Use custom user defined events in configuration policies
Generic SSH action	-	•	•	Easily configure custom actions on any SSH enabled device
3rd party power device support	-	-	•	Create business continuity policies on events generated by supported 3rd party devices

Virtual Infrastructure Features	Basic [Free] (Up to 10 Power Devices)	Silver (Up to 100 Power Devices)	Gold (More than 100 Power Devices)	Benefits
Plugin for VMware vCenter	•	•	•	Integrate power management into your vCenter environment
Plugin for Citrix XenCenter	•	•	•	Integrate power management into your XenCenter environment
Basic Power Actions: • Shutdown Storage Devices • Shutdown Virtual Hosts • Shutdown Virtual Machines • Enter/Exit Maintenance Mode	•*	•*	•	Perform basic graceful shutdown actions in business continuity policies by shutting down virtual machines, virtual hosts, shutting down select storage devices and/or by entering/exiting maintenance mode
Advanced Power Actions: For VM/Volume: • Load shedding • Shutdown Targeted Virtual Machines • Migrate Virtual Machines to Targeted Hosts For Hosts: • Shutdown VMware vApp • Automate VMware SRM Recovery Plan	-	•*	•	Reduce power load by integrating policy driven VM load shedding into your business continuity policies Target a specific VM or groups of VMs for shutdown and/ or migration in load shedding policies Target VMware vApps for shutdown in load shedding policies Automatically trigger the execution of your VMware SRM Recovery Plan when runtime hits a predefined threshold
Virtual IT Infrastructure Level: • Fully virtualized cluster shutdown	-	•*	•	Enable 100% safe shutdown and restore of VMs and host servers in high availability environments

3rd Party IT Solution Connectors	Basic [Free] (Up to 10 Power Devices)	Silver (Up to 100 Power Devices)	Gold (More than 100 Power Devices)	Benefits
Cisco UCS Manager	•	•	•	Dynamically power cap Cisco UCS devices in your business continuity policies
NetApp Storage	•	•	•	Trigger the shutdown of NetApp storage devices in your business continuity policies
CA Nimsoft	•	•	•	Open IPM from directly within Nimsoft

Management Packs	Basic [Free] (Up to 10 Power Devices)	Silver (Up to 100 Power Devices)	Gold (More than 100 Power Devices)	Benefits
Eaton IPM Management Pack for VMware vRealize Operations Manager	-	•	•	Monitor and analyze power information directly from within VMware vRealize

* Not included for Eaton Essential UPS Models (9E and 93E) and all non Eaton UPS Models. Competitor UPS customers need to purchase Gold License to enable Basic and Advanced virtualization features.

IT hardware integration

As virtualized environments grow in number, the demand for collaboration and integration among leading IT equipment providers becomes increasingly important. At Eaton, we have partnered with top IT vendors in the industry to provide customers a more unified, resilient IT architecture. Eaton's validated reference architecture provides customers with the peace of mind that these leading manufacturers have tested and validated our solutions.

Cisco Preferred Solution and DevNet Partner

- Cisco Compatible solution provider of Eaton enclosures and conversion kits for Nexus switches
- Cisco EnergyWise compliant managed rack PDUs
- Eaton's Intelligent Power Manager integrates directly with UCS server management to provide power-capping capability, enabling users to extend runtime by setting server consumption limits during extended power outages

eaton.eu/cisco

NetApp Alliance Partner

- Eaton's Intelligent Power Manager integrates directly with NetApp ONTAP operating systems to provide supervision and shutdown capability for FAS storage systems
- Reference designs and joint solution briefs for FlexPod systems

eaton.eu/netapp

EMC Technology Connect Advantage Partner

- Eaton's Intelligent Power Manager, rack PDU and UPS are VSPEX Labs Validated
- Published VSPEX reference designs, solution overview, and joint solution brief

eaton.eu/emc

VCE Technology Alliance Partner

- Eaton's Intelligent Power Manager, rack PDU and UPS are Vblock Ready
- Only power vendor with reference designs for VxRail Systems

eaton.eu/emc

Simplivity Alliance Partner

- Eaton's Intelligent Power Manager, enclosures, rack PDUs and UPSs are SimpliVity Lab Validated
- Reference design and joint solution brief for OmniCube and OmniStack solutions

eaton.eu/simplivity

Nutanix Technology Alliance Partner

- Eaton's Intelligent Power Manager, enclosures, rack PDUs and UPSs are Nutanix Ready for Applications and Operating Systems and Back Up and Disaster Recovery
- Reference design and joint solution brief for Nutanix hyperconverged infrastructures

eaton.eu/nutanix

www.eaton.eu/intelligentpower

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