



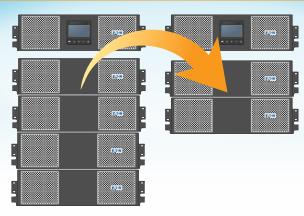
Ensure data integrity

Eaton's Intelligent Power Manager (IPM) software provides the tools needed to monitor and manage power equipment in your physical or virtual environment keeping IT devices up and running during a power or environmental event.

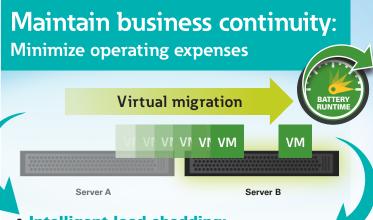
This innovative software solution ensures system uptime and data integrity by allowing you to remotely monitor, manage and control devices on your network. IPM provides a solution that is easy to use, maintains business continuity and allows you to do more with less.

Achieve more with less:

Reduce capital expenses



- Less initial upfront batteries:
 Achieve same amount of runtime with less batteries using load shedding.
- Reduced battery replacement required:
 Use fewer batteries to minimize future battery maintenance and replacement.
- Promote a greener environment:
 Consume less energy and recycle fewer batteries.



- Intelligent load shedding:
 Increase system uptime while extending battery runtime and minimizing generator load by suspending non-critical virtual machines.
- Site Recovery Manager failover:
 Avoid data loss and ensure data integrity at all times. Reduce data recovery expenses by synching primary and disaster recovery sites prior to power failures.
- Power capping on demand:
 Keep critical workloads running longer during a power outage by limiting server power consumption.



Ease of use: Increase productivity and responsiveness

• 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.

Increasing level of control

IPM 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 optimize power load and monitor and manage third-party power devices in addition to Eaton equipment.

Standard features	Basic	Silver	Gold
Number of nodes supported*	Up to 10	Up to 100	Up to 500
Shut down server and host without crashing	*	*	*
Shut down storage module to keep data safe	*	*	*
Discover third-party devices from one dashboard	*	*	*
Customize the data monitored from your device using generic drivers	*	*	*
Group multiple devices to be acted on as a single device with configuration policies	*	*	*
Take basic actions (server, host and storage shutdown)	*	*	*
Plugin for VMware vCenter and Citrix XenCenter	*	*	*

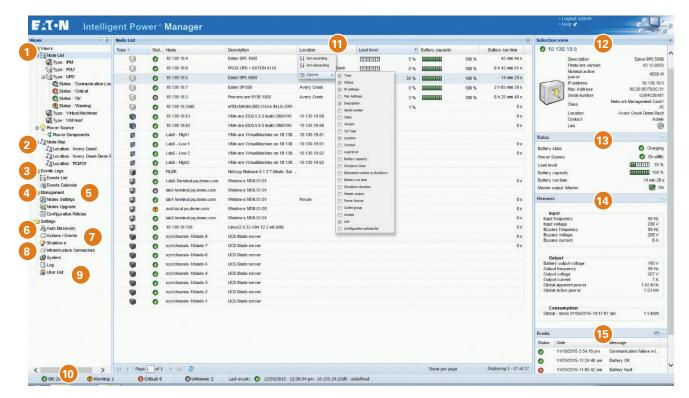
Virtualized features

Power equipment that IPM can monitor and manage**	Eaton only	Eaton only	Eaton and third-party
Enter and exit maintenance mode	*	*	*
Limit server power consumption to save on battery and fuel costs during a catastrophe by power capping on demand		*	*
Shut down specific virtual machines during a power event no matter what physical machine they are on		*	*
Migrate virtual machines to targeted hosts and shut down the non-critical server to conserve energy		*	*
Shut down or suspend a virtual appliance		*	*
Synchronize and start up disaster recovery site during a power or environmental event to avoid data loss using VMware Site Recovery Manager (SRM)		*	*
Trigger an advanced action (power cap, load shed, failover) on configured policies (groups of devices) during specific power or environmental events with a single command		*	*
Control rack PDUs (on, off and reboot sections or outlets)		*	*
Monitor and manage the health, risk and efficiency of your power infrastructure by integrating into VMware's vRealize Operations Manager		*	*
Safely shut down and securely restore high availability environments without crashing virtual machines or host server		*	*

^{*}One licensed node is defined as a UPS, ePDU or IPM/IPP instance

^{**}Power equipment includes UPSs, rack PDUs and rack ATSs

IPM dashboard



- Node list List of all Eaton and third-party power equipment (with a gold license). Subviews show user-created node groups including nodes from a specific region, facility, floor or rack
 - Node map Create custom maps of your environment to show all nodes in a visual format. Load a photo of your facility to see all nodes and create subviews for each floor using floor elevation
- Events log List or calendar views of all events on all devices or divided by
- Management (Node settings) Completely configure web card of

selected node

Management (Configuration policies) –
Group hosts, virtual machines or stand
alone servers to be acted on as a single
device (See actions/events #7 on how
to benefit from this capability)

- 6 Settings (Auto discovery) Quickly find devices by scanning computer's subnet or user-specified IP addresses. Also prepare for an installation by creating a node for a device before it is installed
- Settings (Actions/Events) Trigger a preset action on a policy (group of nodes) during specific events. i.e. If your rack gets too hot, automatically power cap to bring down the temperature
- 8 Settings (Infrastructure connectors) –
 Portal into virtualized equipment like
 VMware, Cisco UCS and Citrix
- 9 Settings (User list) Allow admin to have full control and create user accounts with view-only access
- 10 Events overview Complete overview of all current events

- 11 Customizable column layout Simply click on any column heading to add or remove columns to show only what you want to see
- 12 Selection view Real-time characteristics of selected power device including serial number, firmware version and link to web card
- 13 Status Provides live updates for the selected device including power source, load level and battery run time. Colored icons allow you to quickly see if the status is on (green), off (gray) or requires attention (red)
- 14 Measures Shows live values of the selected UPS or rack PDU including input and output frequency, voltage and current as well as total power consumption
- 15 Events Displays all events for the selected device including power failure and on or off battery. Data is exportable to .csv file

Download IPM at Eaton.com/downloads

Eaton IPM software licenses

IPM – Silver license	Part #
Support up to 100 licensed nodes	66925
IPM – Gold license	Part #
IPM – Gold license Support up to 500 licensed nodes	Part # 66926

On-site service offerings	Part #	
IPM installation: One day on-site	SW06NXXX-001X	
IPM installation: Two day on-site	SW06NXXX-002X	
Power management assessment • Site assessment and disaster avoidance plan development	SW05NXXX-PRE	
Software synchronization • Annual software alignment refresh	SW05NXXX-SYNC	

Simplify power management

IPM simplifies power management across the network through a single, web-based interface, giving you up-to-the-minute information on the status of power in your network.

IPM provides additional management capability for HPE OneView and Cisco UCS environments. Integration with VMware vRealize

Operations Manager and vCenter dashboard lets you manage power to your virtualized environment. Additionally, IPM works seamlessly with several other virtualization platforms, such as Citrix® XenServer, Microsoft SCOM, Microsoft HyperV, Red Hat® and other Linux open source platforms.

Validated alliance solution provider





VMware Technology Alliance Partner

 Eaton's IPM and Infrastructure Management Pack for vRealize Operations Manager are VMware Ready for Orchestration and Management

Eaton.com/VMware





HPE Technology Alliance Partner

- Eaton's IPM integrates with HPE OneView unified API for simplified power management of Composable Infrastructures and Integrated Infrastructures
- IPM, rack PDUs and UPSs are Composable Infrastructure Tested
- Reference design and joint solution brief for HPE Integrated Infrastructures

Eaton.com/HPE





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 IPM 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.com/Cisco





Dell EMC Technology Connect Advantage Partner

- Eaton's IPM, rack PDU and UPS are VCE Vblock Ready certified
- Published VxRail, VxRack reference designs, solution overview and joint solution brief

Eaton.com/EMC



NetApp Alliance Partner

- Eaton's IPM integrates directly with NetApp ONTAP operating systems to provide supervision and shutdown capability for FAS storage systems
- Eaton rack PDUs are included in all FlexPod Modular Integration (FMI) systems
- · Reference designs and joint solution briefs for FlexPod systems

Eaton.com/NetApp





Nutanix Technology Alliance Partner

- · Eaton's IPM, enclosures, rack PDUs and UPSs are Nutanix Ready
- Reference design and joint solution brief for Nutanix hyperconverged infrastructures

Eaton.com/Nutanix



Microsoft HyperV Alliance Partner

 Eaton's IPM integrates with Microsoft HyperV to allow for improved load shedding capabilities and provide remote agentless shutdown and maintenance mode initiation

IT downtime for businesses







Size of business	Small (<100 employees)	Medium (100-1,000 employees)	Large (>1,000 employees)
Downtime events/year	1.7	3.5	3.0
Average length of event	2.2 hours	3.4 hours	0.8 hours
Downtime cost/hour	\$6,900	\$74,000	\$1,130,000
Downtime cost/year	\$25,806	\$880,600	\$2,712,000

Source: Zetta.net

Power outages cost both time and money

37% of IT professionals suffered an **unplanned outage** in the past 12 months

32% of respondents said those outages last more than four hours

34% manage racks in multiple locations or in a colocation arrangement

Source: Eaton and Tech Target survey: How "software defined" is redefining the data center

IPM prevents down time and saves you money

IPM Silver license pays for itself in as little as:



IPM Gold license pays for itself in as little as:



"All of the others say their software integrates into VMware, but when challenged and asked to demonstrate that in house, they couldn't do it. Eaton was the only one who could deliver." —Tom McNinch, Washington Unified School District IT manager

For more information, please visit: **Eaton.com/IntelligentPower**

