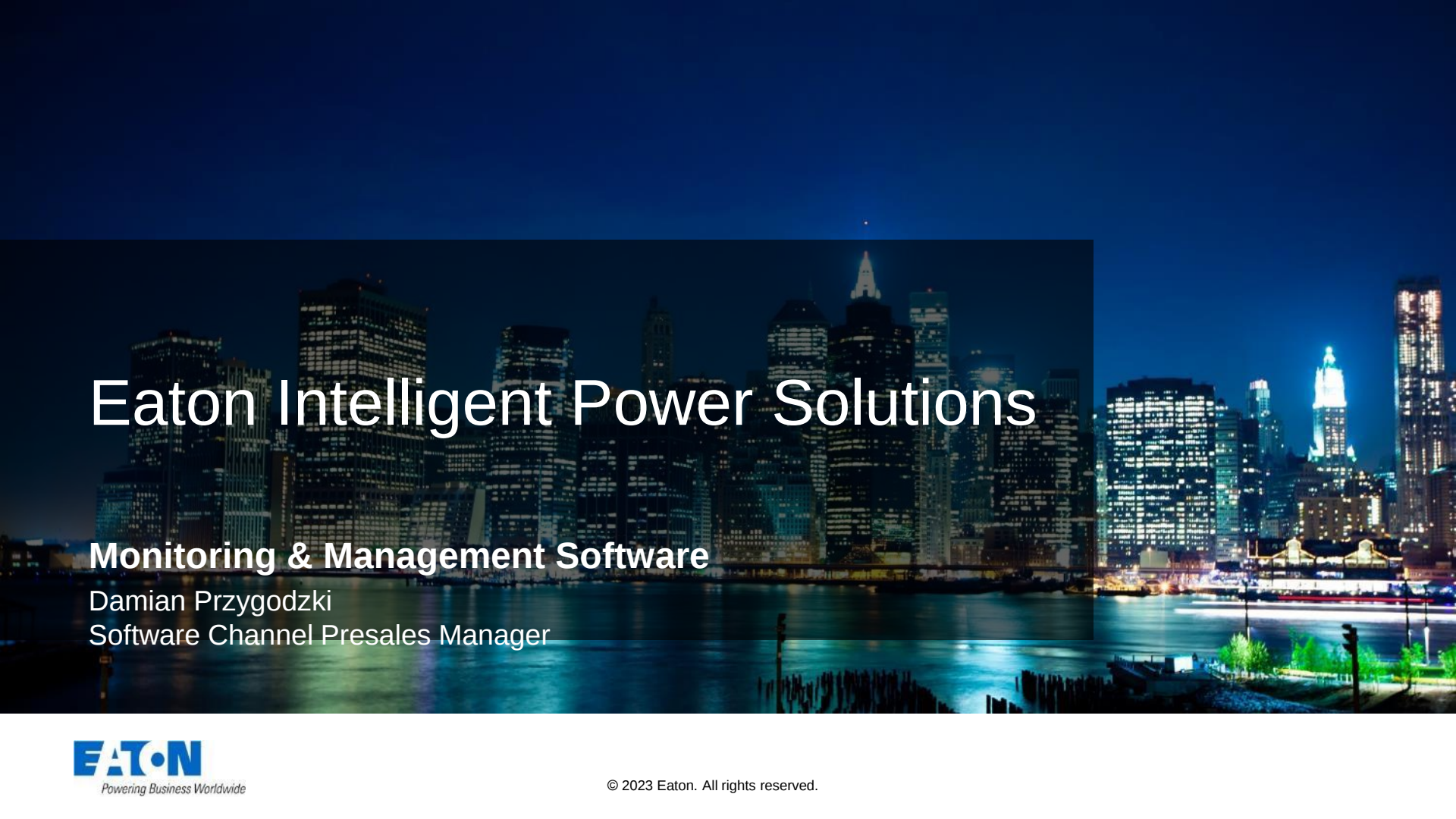




Eaton Intelligent Power Solutions

Monitoring & Management Software

Damian Przygodzki
Software Channel Presales Manager



Brightlayer Data Centre Suite

Eaton's software applications that effectively manage
complex IT asset ecosystems for maximum uptime

Software

Electrical Power
Monitoring System
(EPMS)

Data Centre
Infrastructure
Management
(DCIM)

Distributed
Infrastructure

Disaster
Avoidance

Remote
Monitoring
Cloud-based

Eaton's
solution

FORESEER

Visual Capacity
Optimization Manager

Visual
Power Manager

Intelligent
Power Manager

Connected
Warranty +1

Connected

IT Channel dedicated SW products

Two pieces of software to addressing various needs



Our disaster avoidance software streamlines power management and monitoring, through advanced alerts and automated actions (shutdowns / boot-ups). It also saves electricity.

Rack-level operation



Monitoring power devices in data centers and distributed environments. Its clear, comprehensive reporting simplifies day-to-day monitoring and saves time.

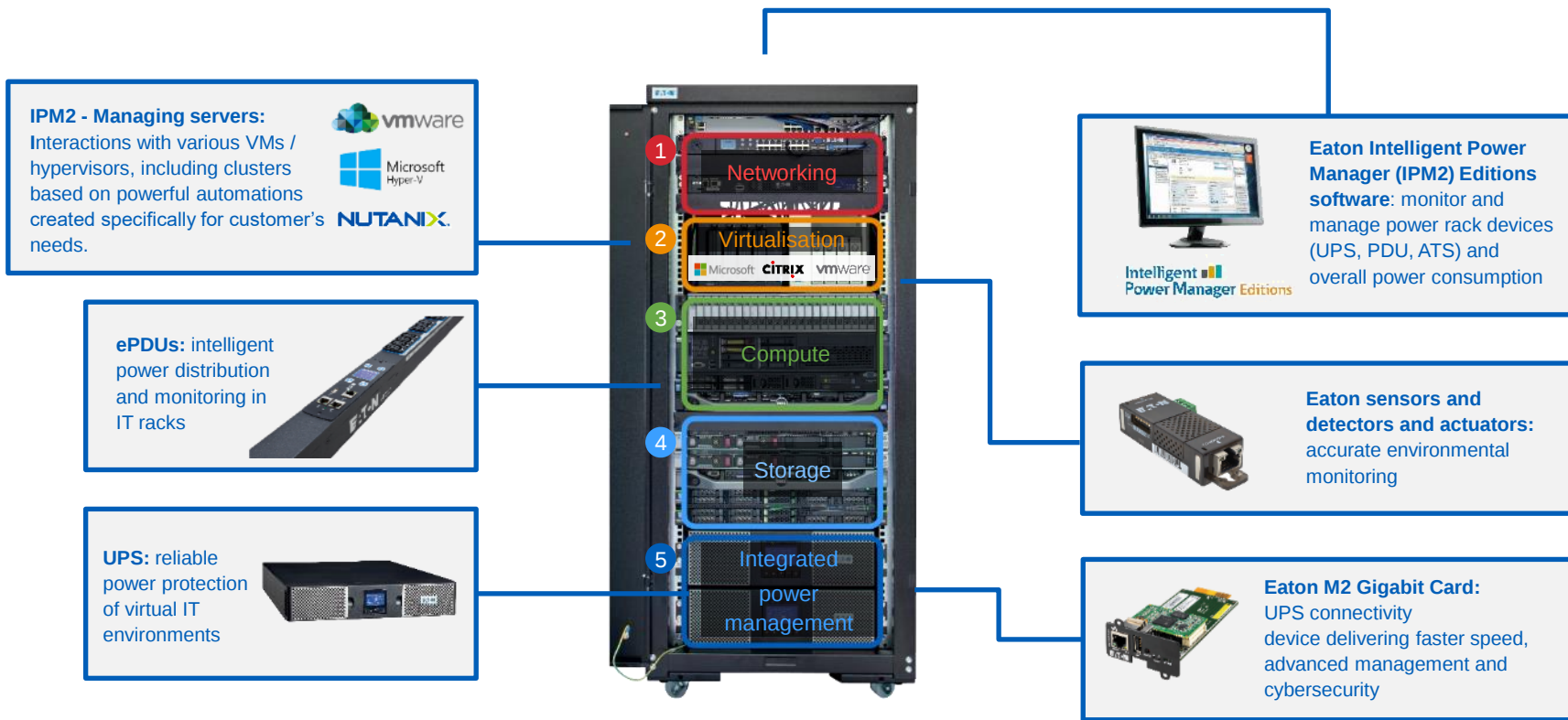
Multi-location cover



What is IPM2 for?

See all details on webpage: [Intelligent Power Manager Software | Remote Monitor | Eaton](#)

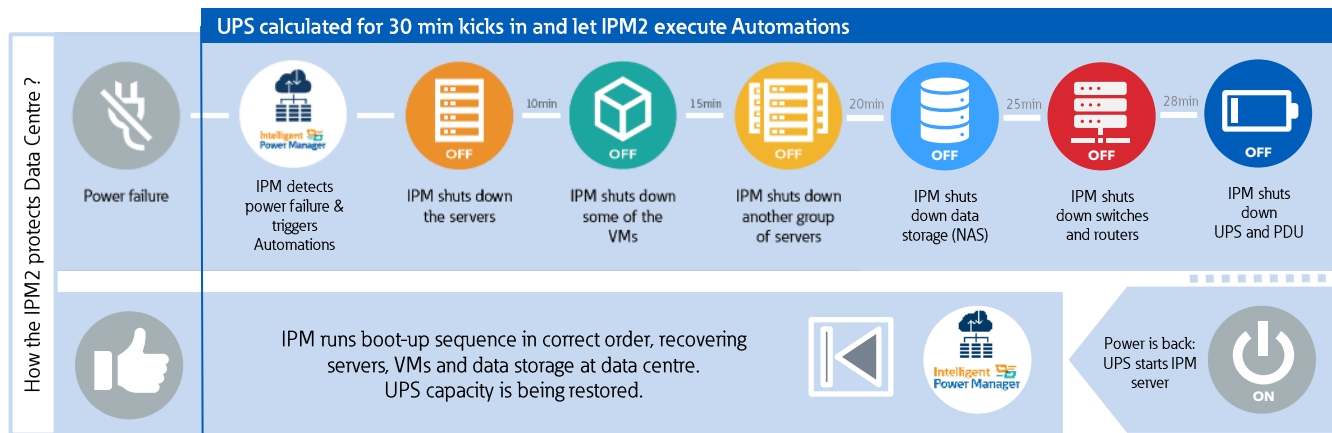
Avoiding disasters of what matters...



Crucial question: What happens when UPS runs out of battery..?

Answer: You'll be still affected by data loss, network failure, in need of on-site visit and manual recovery – only **later** than without UPS. Unless...

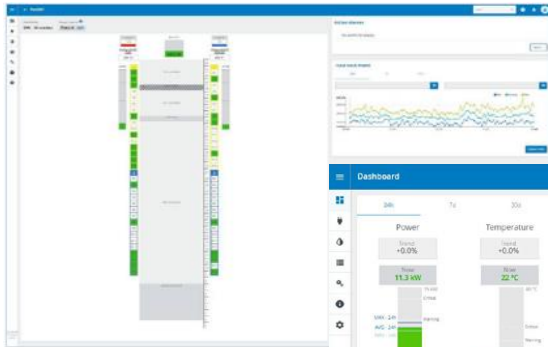
... you let UPS & IPM2 work together to ensure full protection!



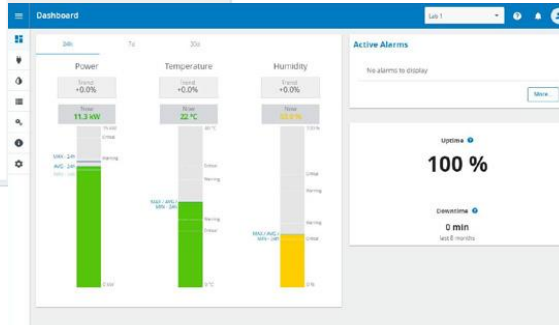
IPM2 uses UPS to perform *intelligent* actions to protect data centers against data corruption, network failures and other costly results of **uncontrolled power loss**.

Of course, IPM2 does more...

- When power failure happens:
Automatically & Gracefully shutting down **ALL devices** in the rack
- Works together with UPS & PDUs to ensure that ALL protective actions are executed on time
- Saves electricity by triggering *scheduled* shutdowns of servers when idle
- Allows to manage power supply of Racks remotely, with no on-site interventions
- IPM2 can fade or migrate VMs across data centers and apply power caps



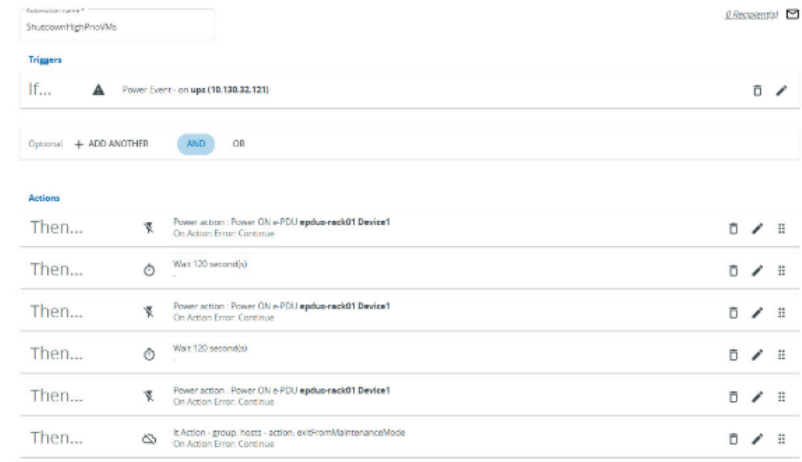
Rack Visualization: with detailed power usage and exact positions of devices



IPM show Statistics on Dashboard and sends Notifications

Management & Monitoring for Power side:

- Monitors power supply & environment of data center (reacts to Sensors readings like temp, humidity)
- Shows each rack's organization (positions, outlets used)
- Mass Configuration
- Mass Upgrade (UPS FW – only 5PX Gen2 and 9PXL)
- Notifications by email & SMS



Automations are *intelligent*, logical and easy to build – everyone can prepare them using Wizard

IPM2: Make the right choice for your business!



STEP 1

How many nodes?

Estimate the size of your Datacentre in number of power & managed IT devices

What counts as a node?

Virtual Hypervisors



Native Servers



Data Storage



ATS/STS



PDU (any)

UPS (any)



STEP 2

Which edition is best?

Select the edition that best fulfils your needs



Monitor

Contextual visibility of Metrics & Capacity

OR



Manage

Basic Monitoring & Management

OR



Optimize

Advanced virtualization features



STEP 3

Which license is right for me?

Select your license type

Perpetual
+
Maintenance
(1 or 5 years)

- You own the license
- Maintenance entitlement needed for updates & technical support

OR

Subscription

- Small annual fee
- Updates & technical support included

What counts as a node?



+ Netapp
+ Datacore

UPS



PDU



ATS\STS



Servers



Hypervisors



Node counts - example



1 Hypervisor

10 Microsoft Windows Server 2019



1 PDU

(2 x UPS) + (1 x PDU) + (1 x Hypervisor VMware) + (10 x Physical Servers MS WINSRV 2016) = 14 licenses IPM Optimize

2 UPS's



Node counts - example



2 Hypervisor

1 PDU

1 UPS

10 Microsoft Windows Server 2019



2 NetApp storage's

$(1 \times \text{UPS}) + (1 \times \text{PDU}) + (2 \times \text{Hypervisor VMware}) + (10 \times \text{Physical Servers MS WINSRV 2016}) + (2 \text{ NetApp}) =$
16 licenses IPM Optimize

Node counts - example



2 UPS's



1 PDU

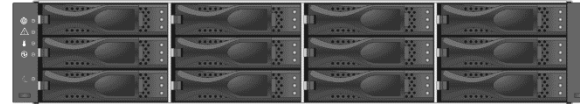


1 UPS

10 Servers with Linux



1 Storage third party



$(3 \times \text{UPS}) + (1 \times \text{PDU}) = 4$ licenses IPM Manage

IPM2: Make the right choice for your business!



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One platform, multiple solutions

**Intelligent **
Power Manager
Monitor Edition

**Intelligent **
Power Manager
Manage Edition

**Intelligent **
Power Manager
Optimize Edition

	<i>Contextual visibility of metrics & capacity</i>	<i>Monitoring plus Eaton device management</i>	<i>Advanced virtualization capabilities</i>
Contextual visibility of power metrics & constraints	✓	✓	✓
Monitoring of Eaton & many 3rd party power devices	✓	✓	✓
Manage & update Eaton power devices		✓	✓
Define basic business continuity automations with host level actions		✓	✓
Simple Wizard based automation configuration		✓	✓
Define advanced business continuity automations with VM & cluster level actions			✓

IPM2: Make the right choice for your business!



STEP 1

How many nodes?

Estimate the size of your Datacentre in number of power & managed IT devices

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Data Storage



ATS/SVS



PDU (any)

UPS (any)



STEP 2

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Subscription

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Selecting the right SKU for IPM2 is easy

To place an order you need to give us: SKU + nodes number

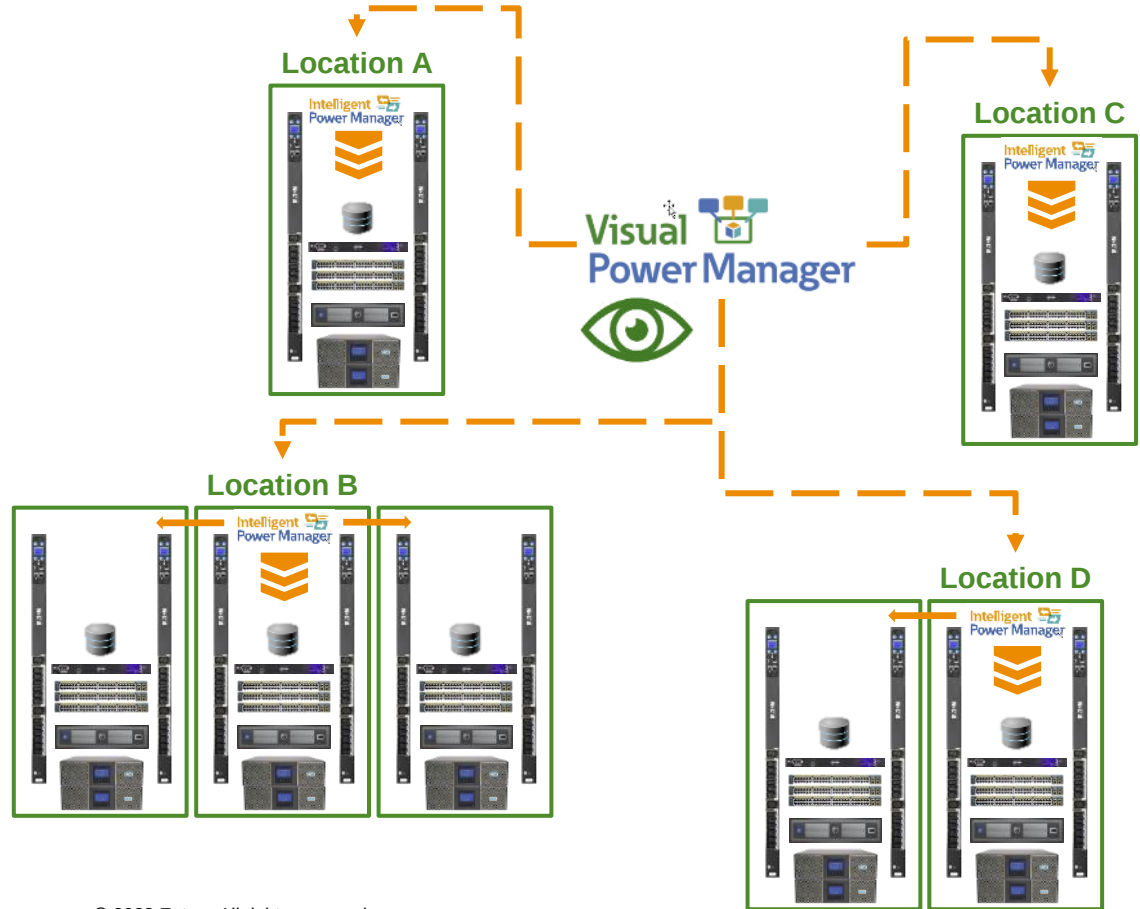
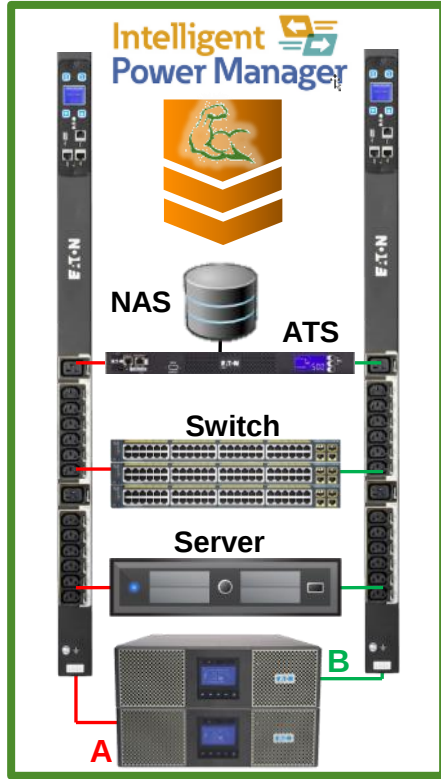
	Monitor	Manage	Optimize
Perpetual + Maintenance 1-Year	IPM-MO-P1	IPM-MA-P1	IPM-OP-P1
Perpetual + Maintenance 5-Year	IPM-MO-P5	IPM-MA-P5	IPM-OP-P5
Subscription 1-Year	IPM-MO-SUB1	IPM-MA-SUB1	IPM-OP-SUB1



Why use VPM then?

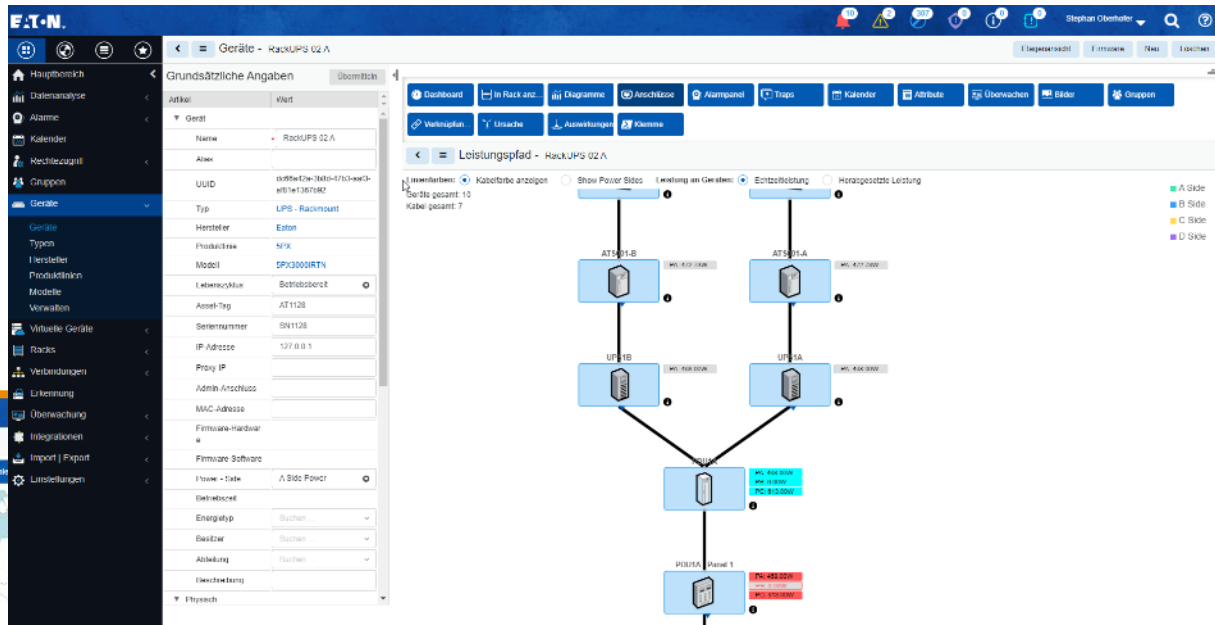
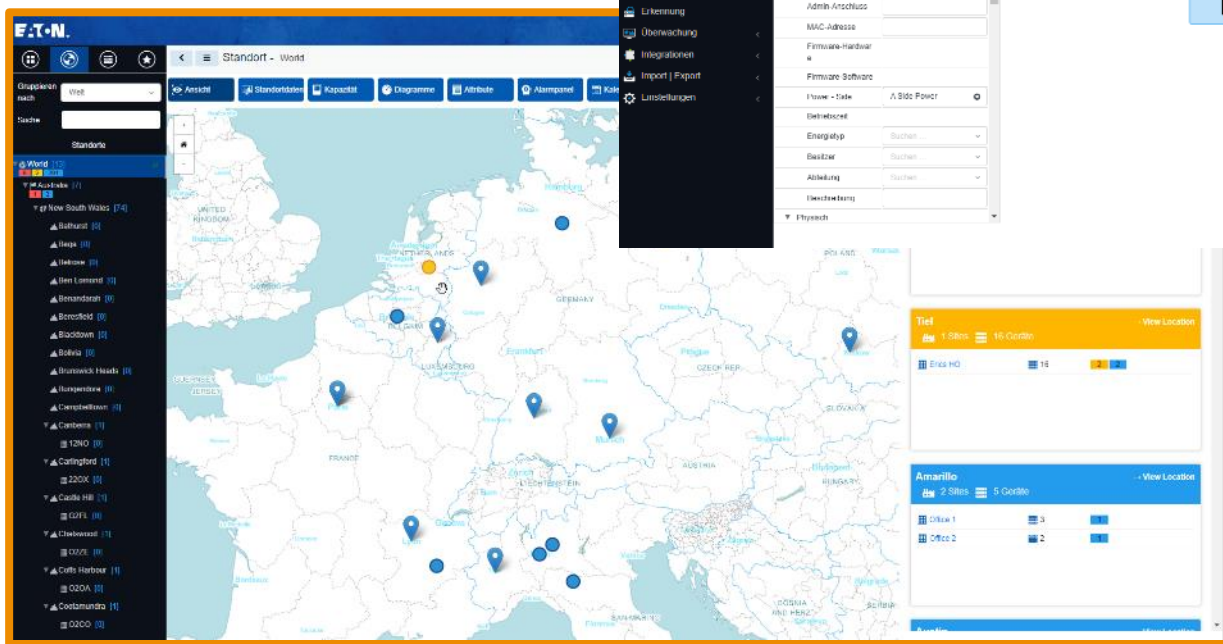
See all details on webpage: [Intelligent Power Manager Software | Remote Monitor | Eaton](#)

Combined approach to power management



UI Views

Visual
Power Manager



Asset Management

Auto Discovery

30K Models library – complete device details

Rack elevation builder with 3D View

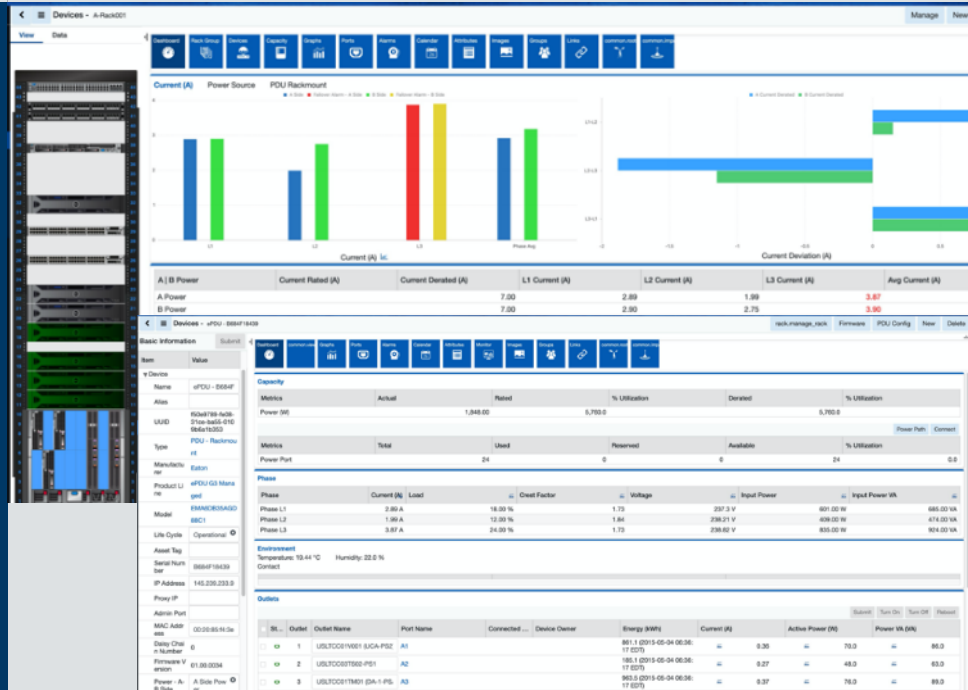
Power ports mapping with Cable's identification

Extensible Attribute Management

Monitoring VMWare Virtual Assets

Eaton/TrippLite Rack PDU, UPS & ATS

Firmware Upgrades and Configuration



(*) Not visual on Rack view, only logical to be shown as Power Paths

Monitoring & Alarming

Monitoring based on Reusable templates

Generic protocol support

SNMP OPC API
Modbus TCP IPMI WMI HTML CSV
BACnet IP RedFish MQTT

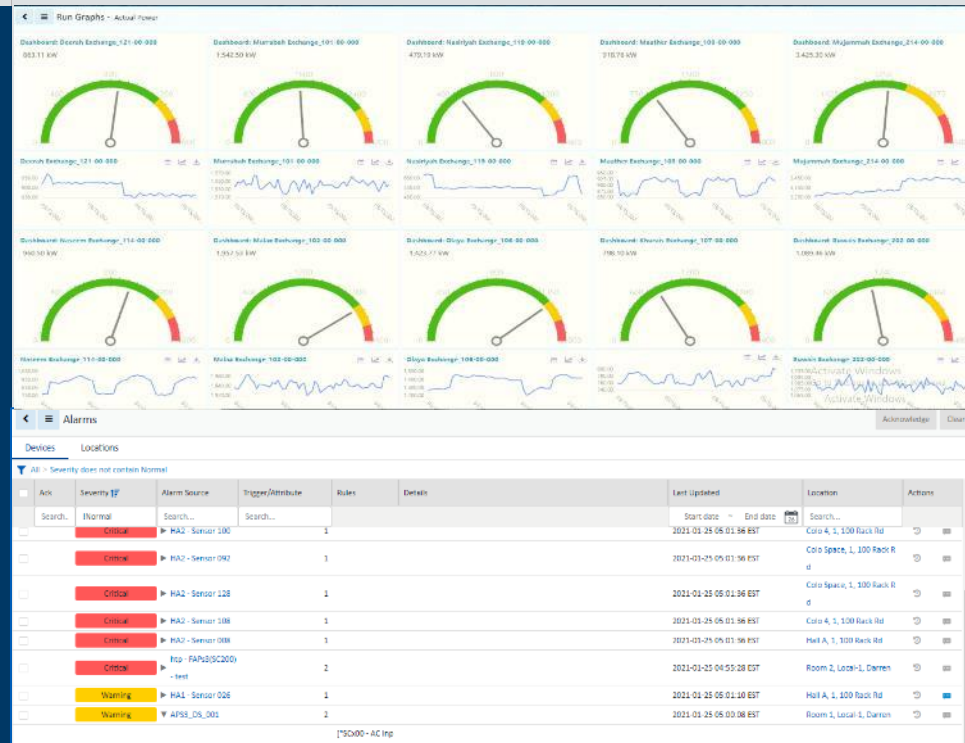
Threshold Definitions

Alarm Triggers & Actions

Notifications (Traps, SMTP, SMS, Scripts)

Local monitoring via RDG / Probe

Visual, map based alarm status



Capacity Planning & Dependencies

Thermal Images

Impact Analysis

Power Load Failover

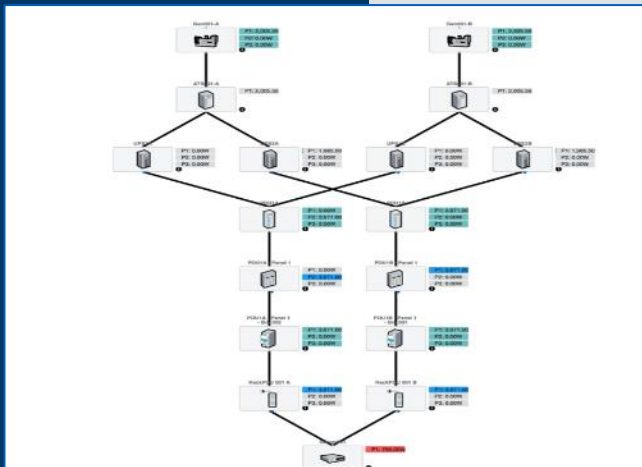
Compound Filters

Calculated Data & Metrics

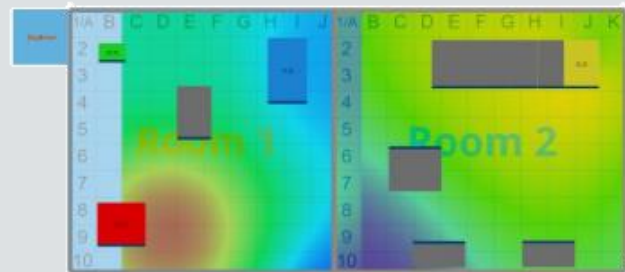
PUE calculation

Power Rollup

Power path tracing



Insert image here



Security & Rights Access

Multi-Tenant Management

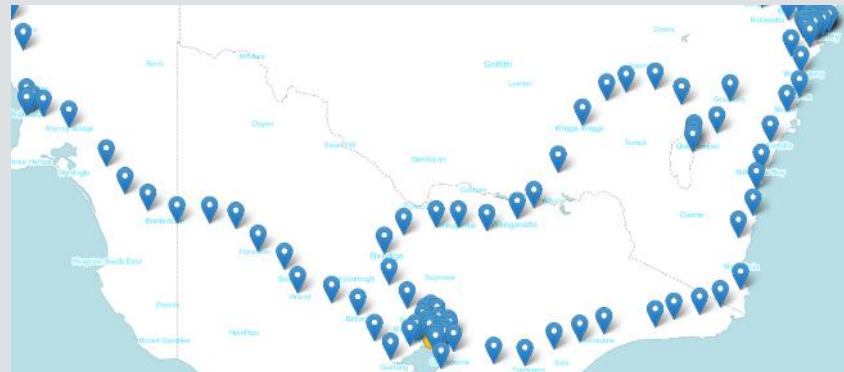
LDAP/Active Directory Integration

HTTPS Access

Encrypted SSL Database Access

Multi language Support

English	Italiano
Français	Русский
Deutsch	繁体中文
Español	大和
Português	



Reporting

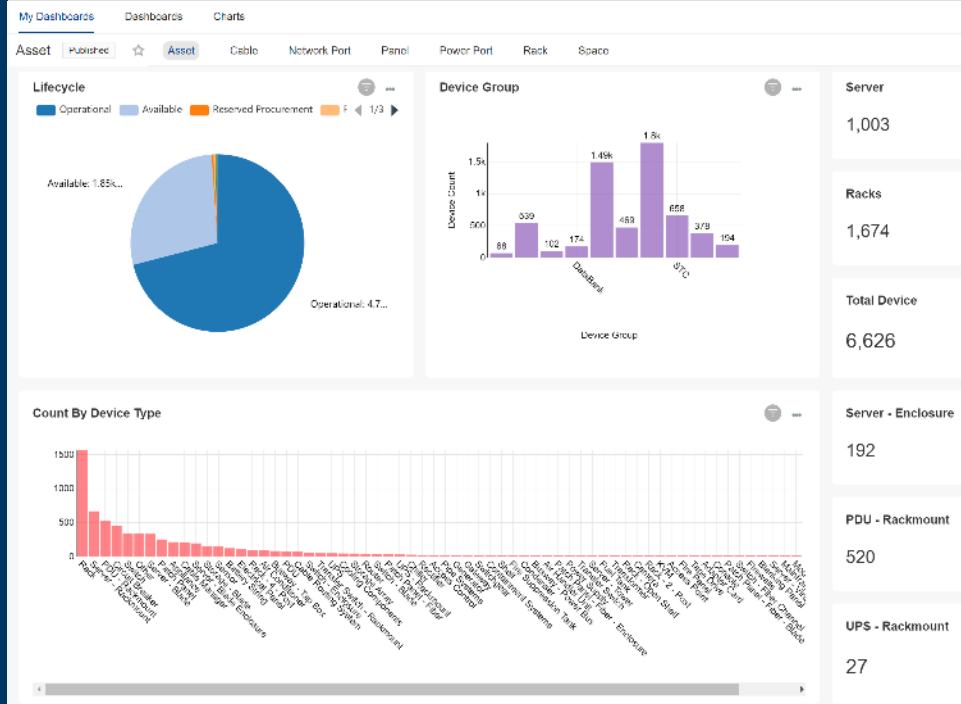
Built in & Custom reports

Distribution reports

Client / Billing reports

Data visualization for Power BI

Data extraction via API



IPM or VPM...or a mix ?

Intelligent Power Manager

- Small – Medium Infra
 - <10 racks
 - or <2/3 sites
- Advanced control of “Converged” or “Hyper-converged” infrastructure

Visual Power Manager

- Monitoring of distributed infrastructures of any size
- Monitoring of **any** devices with **any** protocol
- Integration with 3rd party ITSM solutions (ServiceNow)
- Alarming and reporting created on any metric and with any logic

Intelligent Power Manager + Visual Power Manager

- Local “disaster avoidance” with IPM
 - Protect your Infra in case of energy & connectivity issue at the same moment
- Advanced central monitoring with VPM
 - Get a clear view and complex analysis on the distributed environment



IPM2 Pre- and Post-sales tech support for software:

Level 1: Competence Centre Budapest: swconnect@eaton.com

Level 2: Local technical presales

Level 3: Engineering team in France

VPM Pre- and Post-sales tech support is provided “project based”
by dedicated EMEA Professional Services teams.

Eaton supports you

How Eaton enables Channel to Digital ?

A **certification program (IPC)** to make partners competent at selling and delivering services on Brightlayer platform.



Discounts on the whole solution from Eaton, including Software

Recognition towards your customers with **certification**



Competitive differentiation with **visibility on Eaton.com**

Efficiency in your projects with **deployment preparation sessions**



All this with **no upfront financial investment on partner side !**

Software Channel operations for distribution and resellers

Contact for software presales / sales support at Eaton:

Damian Przygodzki

Software Channel Presales Manager

+48 695 430 018, DamianPrzygodzki@eaton.com

Or ask for help / consultation via your local Eaton Sales Representative / Presales.

Jaromir Fiala

Sales Engineer Power Quality

+420 603 192 226, JaromirFiala@Eaton.com