EASILY MANAGE DATA CENTER ENERGY, POWER AND ENVIRONMENT

In today's data center, being efficient with power and cooling resources is just as important as maintaining uptime. Power IQ® (PIQ) software provides the information and controls you need to fully utilize your existing infrastructure resources while alerting you to trouble before it causes downtime. PIQ software can be easily deployed as a standalone DCIM monitoring solution or with Sunbird's dcTrack® DCIM Operations to provide full asset and change management.

PIQ functionality scales to meet enterprise needs, allowing you to securely monitor all your data centers and labs, including your CRACs, UPS, PDUs, RPPs, Meters, Branch Circuits, Racks, Rack PDUs, Environment Sensors, and IT Devices — all from a single web browser.

PIQ is vendor neutral and automatically supports a number of devices and manufacturers (see back page). You can easily add support for any other manufacturers with our dynamic plugin capability.

UTILIZE POWER AND COOLING RESOURCES EFFICIENTLY AND IMPROVE PUE

PIQ software automatically collects power and environmental data from sensors.
- Leverage Free Cooling — Patented Cooling Charts help you keep cabinets in the ASHRAE® allowable environmental ranges for potential cost savings.
- Identify and Eliminate Ghost Servers — Scheduled email reports pinpoint ghost servers for consolidation.
- Bill Back Based on Energy Usage — Automatically generated bill back reports drive better behavior.

MAKE INFORMED POWER AND CAPACITY PLANNING DECISIONS

PIQ software tracks actual power load of IT devices under computing stress, providing better planning information.
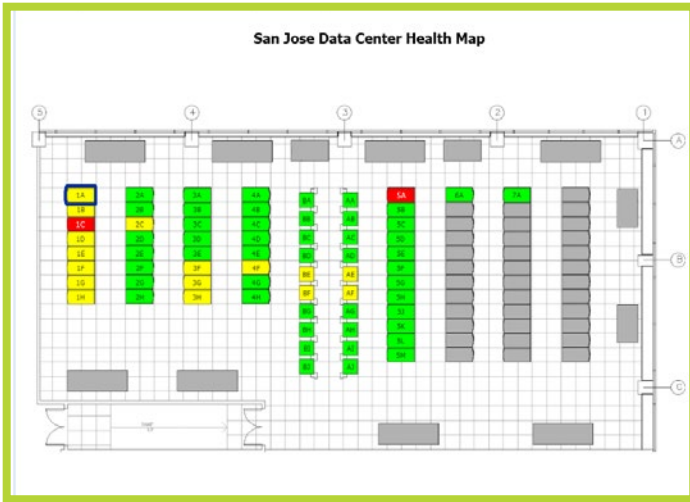- Stranded Capacity — Newly found capacity delays expensive capital expenditure.
- Future Capacity — Trending and days of supply projections enable accurate forecasting.
- UPS Capacity and Battery information — End-to-end monitoring easily monitor prevents potential over-capacity situations.

PLATFORM OPTIONS:

- **VMWARE® AND MICROSOFT HYPER-V® VIRTUAL APPLIANCE**
  Application software, database and hardened Linux® operating system are fully tested and ready to load on your VMware or Hyper-V platform
- **HARDWARE APPLIANCE**
  Application software, database and hardened Linux operating system are loaded onto our enterprise class, rack-mountable 2U server with dual power supply and redundant fans
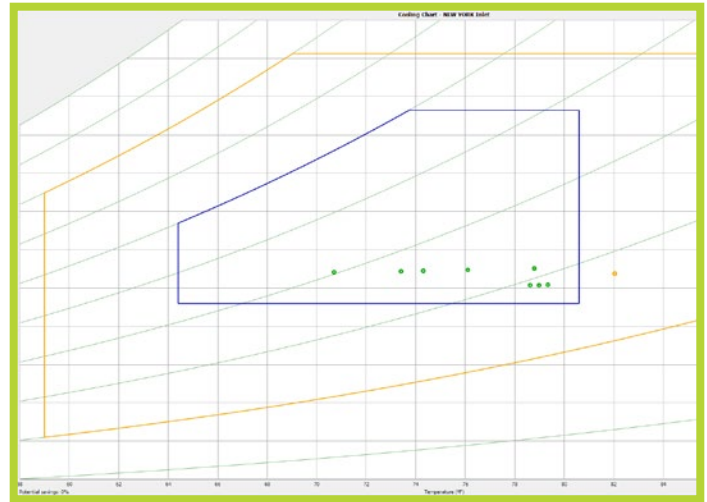
MONITOR DATA CENTER HEALTH TO PREVENT COSTLY UNPLANNED DOWNTIME

- Avoid unplanned downtime that can cost hundreds of thousands of dollars per outage
- Simulate Failover — Reports identify available capacity to ensure coverage in case of failure
- Visualize Data Center and Facility Health Status — Health Map provides an at-a-glance view of rack load levels, line currents, and all environmental conditions
- Alerting and Alarming of Threshold Violations — enable quick identification of hotspots and potential trouble areas
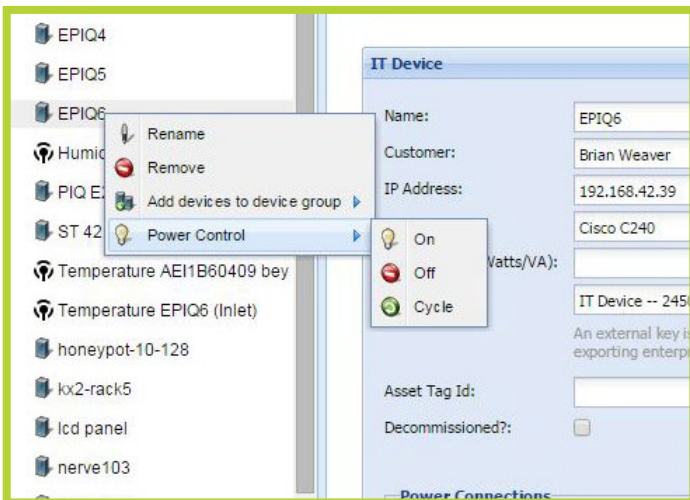
HEALTH MONITORING

A real-time interactive data center health map increases your uptime by providing advanced warnings of issues such as hot spot formation, SLA violations, overcharges, and loss of redundancy.
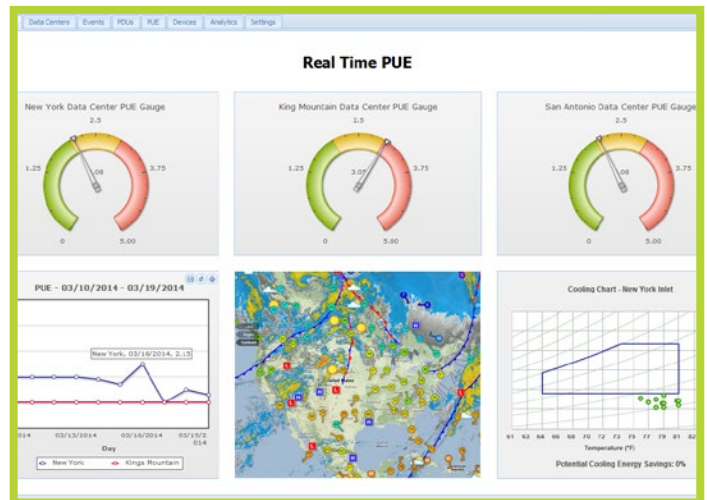

AVOID HOTSPOTS

Ensure uptime, compliance with manufacturer and industry-accepted recommendations, and achieve project cost savings by increasing the temperature set point.
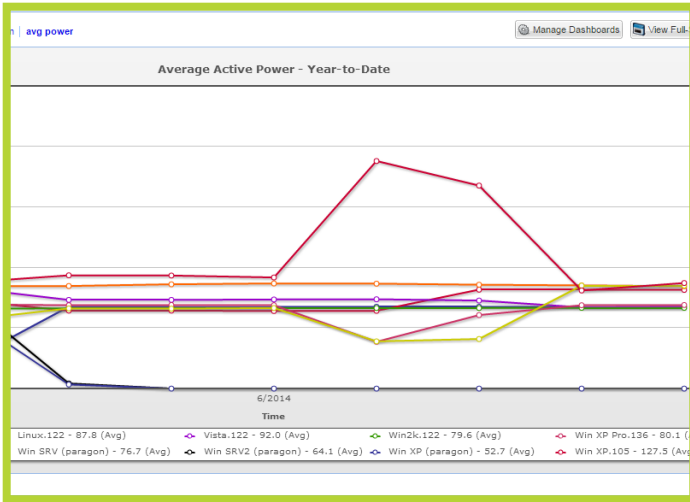

POWER CONTROL

Easily increase productivity by controlling power on of outlets, IT devices, and groups of IT devices with power sources spanning multiple rack PDUs.

POWER USAGE EFFICIENCY

See real-time PUE and trends, and your current power capacity utilization at any level in your data center or lab (PDU, rack, row, busway, room, etc.) helping to increase data center efficiency.

FIND STRANDED CAPACITY

Power consumption reports provide a quick and easy way to identify what cabinets have available capacity, therby delaying expensive capital expenditure and improving resource efficiency.

SIMULATE POWER FAILURE

Eliminate outage concerns with at-a-glance views and reports that identify available capacity and whether there is enough available in case of failure.

BILL BACK ENERGY USAGE

Automatically generate bill back reports that charge individual organizations based on usage, including premium charges for overages, provide equitable distribution of power and energy charges, and drive energy efficiency and sustainability initiatives.

CABINET ACCESS MANAGEMENT

Increase productivity with reports that clearly identify door status and allow for the remote control of door access.

AUTOMATED POWER CONTROL
- Remote power control of outlets, IT devices, device groups and racks
- Agentless graceful operating system shutdown

POWER AND ENVIRONMENTAL DATA AGGREGATION
- User-configurable collection intervals ensure desired accuracy while minimizing network traffic
- Aggregate active power, current, temperature and humidity data

DYNAMIC DASHBOARD, REPORTING AND CHARTS
- Energy, cost and carbon consumption reports keep customers and/or internal departments informed
- User configurable dashboard with drag and drop widgets
- Health and Capacity Floormap
- Rack Inlet Cooling Chart
- Chargeback reports
- Exception reports help you find stranded power capacity
- Trending reports help you see future capacity needs
- Thermal analysis including temperature and humidity compliance reports
- Power capacity meter for forecasted "days of energy supply"
- Failover simulation charts identify capacity availability
- Display critical and warning alerts with email notifications

CREATE CUSTOM REPORTS
- Tailor reports to focus on only the relevant timeframe and information
- Sort and filter data on power/energy, temperature, and other metrics to gain more granular insights

MONITORING AND MANAGEMENT
- Monitor facility objects including sensors, meters, PDU/RPP/ Branch Circuits, UPS, and CRAC
- A central management console consolidates names, polling status, location, model and firmware onto one screen, saving valuable management time
- Bulk configuration and firmware distribution for Raritan PX PDUs
- Power and environmental events and notifications

SECURITY
- SNMP v1, 2, 3 with Informs
- LDAP, Active Directory
- IP Based Access Control
- Granular permissions
- Full audit log
- IP Tables firewall
- Support for all browsers

OPEN DATA MODEL
- Web Services API — for easy scripting and integration with your systems with support for Create, Read, Update and Delete Data Center Items. Power control and reading events
- Open database connectivity capabilities let you use your existing data warehouse and reporting system to generate custom reports
- Import and export data via CSV file

VENDOR AGNOSTIC SUPPORT
- Out of the box support for: APC®, Avocent®, BayTech®, Chatsworth Products, Inc., Cyber Switching®, Cyclades® Eaton, Emerson®, Geist, HP®, Knurr®, Liebert, MRV®, NetBotz, Raritan, Rittal®, Server Technology®, Schneider Electric, Sinetica, Starline Track Busway, Tripp Lite, and UNITE™, Veris®, and many other devices
- Dynamic plugin capability

Visit www.raritan.com/power-iq
or Call 1.800.724.8090 for more information.

Raritan®

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