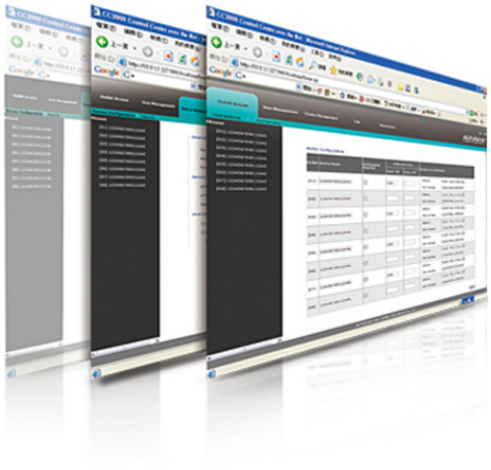
eco Sensors

Energy & DCIM Management Software



The software has stopped providing RCI and RTI metrics due to ATEN's termination of the related licenses in 2020.

The eco Sensors software and its CD-ROM have been discontinued. As a replacement, please download eco DC, the Energy & DCIM Management software from the Support and Downloads tab.

eco Sensors software has been developed to work with ATEN's new generation of PE series green energy power distribution units (PDUs) to effectively increase the efficiency of data center power usage. eco Sensors software, in conjunction with sensor-enabled eco PDUs, gives you the means to assess, diagnose and estimate how much energy you can save. Following the suggestions generated by the sensor-enabled system allows you to optimize energy usage to save energy without harming your IT equipment's reliability. The eco Sensors utility provides single portal, single login, secure, centralized, access, administration and management of up to 2500 PE devices over the network – local and worldwide – anywhere and anytime.

Because eco Sensors offers a single, integrated window-based application program to manage all your devices, users no longer need to learn the interface for each individual device or remember every device's IP addresses, making system management easier and more efficient.
By consolidating the management of your PE devices, eco sensors allows every PE device to be accessed and controlled by means of a single interface. All outlets in different PE devices are integrated into a single tree view, making eco sensors ideal for the power management of large data centers and branch office,with servers located in several remote locations within the same intranet.
eco sensors is able to automatically discover all PE devices within the same intranet and has the ability to monitor/manage these devices. This software provides monitoring/managing of PE device outlet power ON/OFF/ Reboot, sequential ON/OFF of outlet, current / kWH / environmental monitoring at PDU/outlet level, name of outlet, current / kWH / environment sensor threshold setting/alert, circuit breaker status monitoring etc. through SNMP. Threshold exceed alert through System log/SMTP.

*eco Sensors is designed to work with NRGence™ PDUs, and is bundled with all PE series packages.

Features

- Automatic discovery of all PE devices within the same intranet
- Remote real-time power measurement and monitoring
  - PDU level current / voltage / power dissipation / power consumption
  - Outlet ON / OFF / Recycle status
- Second window to monitor data center status including PUE, Power, Carbon Footprint and rack status
- Remote real-time power outlet management
  - Power outlet ON / OFF / Cycle switching by outlet or user-defined group
  - Power outlet ON / OFF / Cycle switching with pre-defined schedule
  - User-defined outlet level delays for sequential power up
  - Current / Voltage / Power Dissipation / Power Consumption threshold level setting
  - User access assignment for every outlet
  - Name assignment to individual outlets
- Remote real-time environment sensor monitoring
  - Temperature / Temperature + Humidity reading / Temperature + Differential Pressure
  - Temperature and Humidity threshold level setting
- Plotting/Monitoring of all PE devices
  - Add data center server racks
  - Add PE devices for each server rack
  - Manage device/device outlet status for each plot
- Offers essential data center indices including Rack Intake Temperature, Rack Exhaust Temperature, Rack Equipment Temperature Difference, RHI (Rack Humidity Index), RPI (Rack Pressure Index), RAI (Rack Airflow Index)
- Power analysis report for optimizing data center energy management – including power usage, power load, power cost, CO2 cost, power capacity and trend
- Exceed threshold alert through SMTP and System log
- 10240 line event log
- System log provision
- Two-level password security
- Strong security features include password protection and advanced encryption technologies – 128 bit SSL

Specifications

Max PDU number	2500
Data Center Layout	45 x 30 / 72 x 48 / 90 x 60
Max RACK Number	1250
Max Zone Number	128
Power Report Data	3 years
Real Time Dashboard Data	1 hour

Diagram


Temperature Sensor
Differential Pressure Sensor
IT Office
Internet/ LAN
IT Office
eco PDU Sensor Probes
Server Storage