

1E NightWatchman and Cisco EnergyWise

Executive Overview

Waste is endemic in IT. Independent research has revealed that 15 percent of servers do nothing useful and 50 percent of PCs are left on overnight. This waste results in billions of dollars of wasted energy across campus IT and data center facilities each year.

Organizations are struggling to address this inefficiency, because they lack a standardized way to measure, report, and control energy use across the corporate infrastructure. Significant cost is being spent on disparate attempts to measure and control energy use.

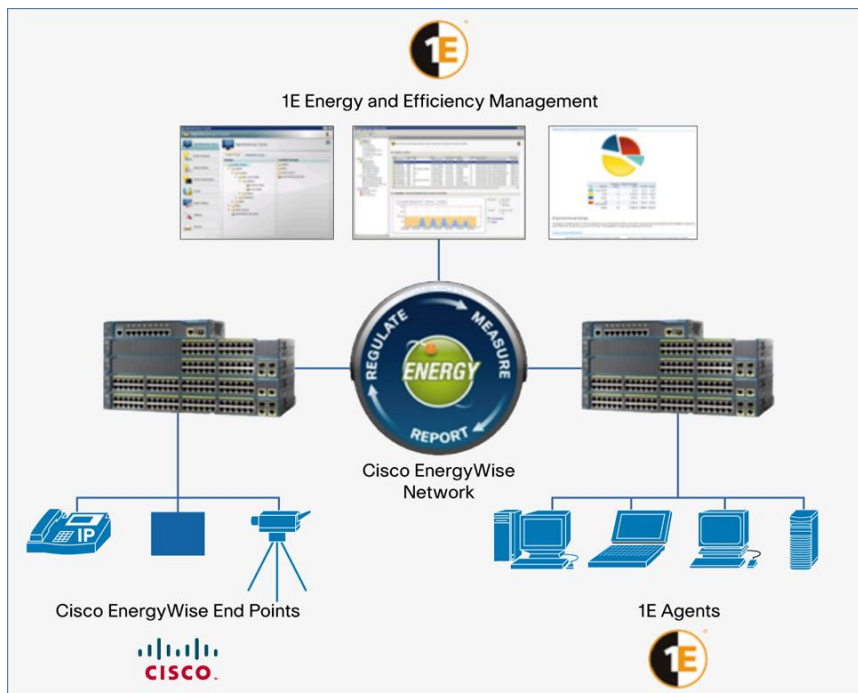
The integration of NightWatchman[®] from 1E with Cisco[®] EnergyWise provides one solution for managing power consumption and efficiency across PCs, servers, network, and Power over Ethernet (PoE) devices.

Solution Description

This pioneering solution from Cisco and 1E has broad technology support, applies intelligence directly to the devices being managed, and works with both legacy hardware and new technologies. The solution broadens the reach of energy and efficiency management across data center and campus IT and increases its depth across different layers of the infrastructure (servers, networks, PoE devices, and physical infrastructure).

Leveraging EnergyWise, a front end provided by 1E will enable unparalleled reporting and control for all supported devices, including servers, PCs, laptops, and Cisco EnergyWise-compliant PoE devices across campus and data center IT infrastructure.

Figure 1: Combined EnergyWise and 1E Solution





Solution Components

Cisco EnergyWise-enabled network
NightWatchman Server Edition from 1E
NightWatchman Enterprise Desktop from 1E
1E Services and Support

Financial Benefits for Customers

Customers will benefit from managing the energy use of their network connected devices and identifying unused assets.

Energy savings from office building equipment, including PCs, laptops, IP phones, and webcams can save about US\$1 million each year for a 10,000 employee organization.

Decommissioning or repurposing unused servers in the data center saves over \$400,000 each year in operational costs such as licensing and systems management.

Additional savings of over \$63,000 each year are gained by applying 1E Drowsy Server power management, which saves energy without powering down servers.

Customer Business Problem Addressed

Using the Cisco EnergyWise API, customers gain a single integrated solution to manage energy and efficiency across a broad range of devices, environments, and the IT infrastructure stack.

Intelligent agents from 1E, in conjunction with the EnergyWise Software Development Kit (SDK), maximize energy savings across PCs, servers, network, and PoE devices.

Unique Value Proposition

This solution addresses the data center as well as campus IT. It gathers its own data and does not require external data sources such as energy metering equipment.

Server and data center managers can monitor the efficiency of their servers through a visualization of “Useful Work”. This capability highlights servers that provide no business value, making the decision to decommission unused servers much simpler and risk free.

Concerns that server power management could affect availability or performance are addressed using the unique Drowsy Server feature. This feature never turns a server off; instead it saves power by reducing performance automatically when a server is only doing “housekeeping” work (such as a virus-scan). Performance is restored as soon as demand for business applications returns.



Partner Profile

1E is the global leader in IT efficiency. It helps customers save money, reduce IT waste, and save energy.

Its solutions target inefficiencies in hardware and infrastructure, the network, energy, software licenses, and time spent managing complex environments.

1E has 16 million licenses installed across 1400 customers. Total customer IT savings to date are over \$1 billion, with over \$550 million of that in energy alone.

1E is a member of the Cisco Developer Network, and its data center solution is also available through the Cisco Facilities and Energy Management Services practice.

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