

NightWatchman® Server Edition

True business value from every kilowatt you use



NightWatchman® Server Edition revolutionizes server efficiency and power management by measuring Useful Work™ across both physical and virtual servers. By identifying the true business value derived from each kilowatt of energy used it provides the key to finding and decommissioning unused servers with confidence. Through Drowsy Server® workload-based server power management, NightWatchman Server Edition also provides the ability to reduce energy consumption across all your servers without any loss of availability.

“An organization with 5,000 servers stands to save \$4m through server rationalization and power management.” Alliance to Save Energy, Server Energy & Efficiency Report ‘09

“CSC is pleased to partner with 1E in a case study designed to measure the benefits of NightWatchman® Server Edition and help CSC meet their sustainability objectives.” John Glowacki, Corporate VP, Chief Technology Officer, CSC

Industry Comment

The average annual cost to manage each server in your organization is \$4,400*. Given that 15%# of those servers could be doing nothing useful, do you really want to spend that kind of money managing servers that add no business value?

*Worldwide and U.S. Enterprise Server 2007-2011 Forecast Update by Vertical Market and Company Size, IDC, June 2008 (bottom right of page)
#Alliance to Save Energy Server Energy & Efficiency Report 2009

Do you know the true business value of each kilowatt of energy used by your servers?

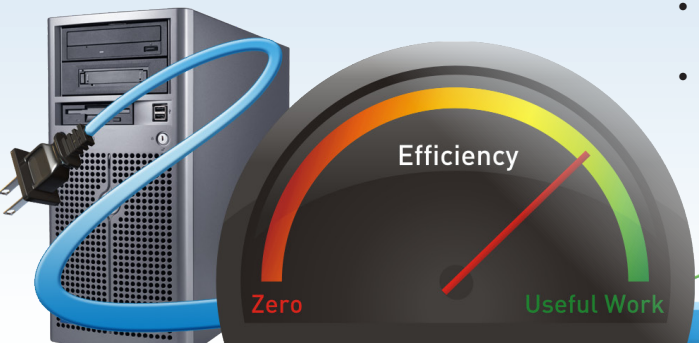
Do you need centralized control of server power management?

Do you need to reduce power consumption, costs and carbon footprint across your data centers?

“Sustainability is a guiding principle at Bovis Lend Lease. We are always looking for innovations like 1E’s NightWatchman Server Edition that will bring our carbon base load to a lower level.” Dr Paul Toyne, Bovis Lend Lease

Advantages

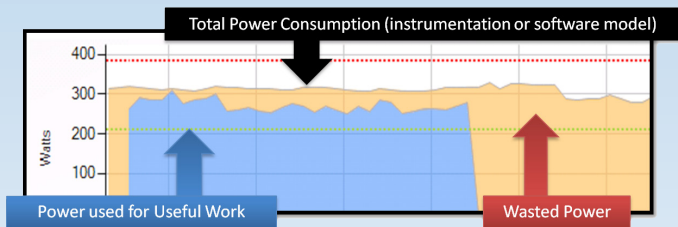
- Significantly reduces operational expenditure and avoids unnecessary capital expenditure
- **Useful Work** measures physical and virtual efficiency to show when you achieve true business value from the power being used by your servers
- **Drowsy Server** delivers workload-based server power management, dynamically controlling power and costs based on server activity
- Increases operational efficiency by tracking how much power is being wasted by idle or unproductive processes across physical and virtual servers
- Comprehensive dashboard provides instant visibility of server power costs, efficiency and CO₂ emissions
- Virtual machine management and sprawl controls deliver quality information to help identify unproductive virtual servers and inefficient host servers
- Achieve ROI within twelve months with million-dollar cost savings, not unfulfilled promises



"4.7 million servers are not doing any useful work, wasting nearly \$21bn per year on hardware, maintenance and management, with an extra \$3.8bn wasted on energy." Alliance to Save Energy, Server Energy & Efficiency Report '09

Useful Work™

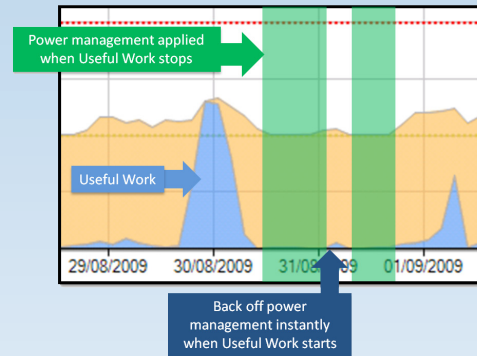
1E believes that if a server is busy doing the task for which it was bought and provisioned, then it is performing Useful Work. By highlighting Useful Work, NightWatchman Server Edition measures server efficiency to identify the true business value of energy use across all your servers, whether in your data center, computer room or under the desk of a developer.



- Enables power measurement and management on an individual server basis without the need for metering hardware delivering instant visibility and reporting across the organization
- Immediately lowers licensing, maintenance, power and cooling costs by quickly identifying 'quick win' targets for decommissioning and consolidation across your server estate
- Fast roll-out with no additional hardware costs or impact on servers
- Reports across physical and virtual servers, helping to eliminate virtual sprawl

Drowsy Server®

Servers in the data center cannot be power managed in the same way as desktop computers (by turning them off or putting them to sleep) because they must always be available to service user requests. By dynamically controlling server performance Drowsy Server reduces energy consumption by an average of 12% while still keeping the server available if it's needed.



- Maximizes achievable savings while ensuring that servers can react to demands to perform Useful Work
- Select the processes and I/O where power savings are preferred over performance, increasing the reductions gained from power management
- Processors running at slower speeds use less power and enjoy a longer lifespan, cutting hardware replacement costs and reducing power consumption
- Supports a range of vendor specific demand-based switching technology like Intel SpeedStep® and AMD PowerNow!™

1E – Empowering Efficient IT

We believe every one of our customers should expect more from their IT. Founded in 1997, 1E pioneered advanced PC power management with the release of ground-breaking solutions like NightWatchman® and WakeUp™. That innovative approach has continued with the development of revolutionary concepts like Useful Work™, Drowsy Server® and Computer Health™ as part of a unique range of industry-leading solutions. Headquartered in London and New York and with nearly 14 million licenses deployed world-wide, over 1100 organizations in 42 countries have trusted us to help them to work effectively, productively and sustainably. To date, we have helped our customers save in excess of \$530m in energy costs alone, cutting CO2 emissions by 4.3 million tons. We have many imitators, but there is only one 1E.

To learn more about NightWatchman Server Edition:

US Toll Free: 1 866 592 4214

UK: +44 208 326 3880

France Numero a tarif local: 805 111 577

Deutschland Bundesweit: 800 664 6702

India: +91 120 402 4000

Email info@1e.com

Web www.1e.com

