



# Empowering energy efficiency & sustainability in IT for Federal agencies

## Industry overview

*“Every day, over 54 million workers in the United States make the decision not to turn off their PCs at the end of the day, wasting \$2.8bn.” Alliance to Save Energy, PC Report 2009*

On 5th October 2009, **President Barack Obama** signed **Executive Order (EO) 13514, Federal Leadership in Environmental, Energy, and Economic Performance**, a broad-based environmental initiative to “establish an integrated strategy towards sustainability in the Federal Government” which requires Federal agencies to lead by example in creating a clean energy economy. EO13514 expands upon energy reduction and environmental performance requirements of **Executive Order (EO) 13423**, which obliges Federal agencies to purchase environmentally sustainable products and services under the Environmentally Preferable Purchasing program.

Energy use and CO<sub>2</sub> emissions from servers, desktops, monitors and laptops is the largest single category of IT energy consumption in the United States, accounting for nearly 50% of all IT electricity costs. With this in mind, The Office of Management & Budget (OMB) will track progress on both these EO goals through a management scorecard, requiring Federal Agencies to be on track to “implement power management on 100 percent of PCs, laptops and monitors and extend the life of IT equipment to greater than four years”, by December 2010.

With over 1.7m licenses sold, 1E has a significant presence in government, including customers like the US Air Force, the US Army, the Department of Veterans Affairs and the State of West Virginia, who all rely on 1E to help them to significantly lower costs and reduce their CO<sub>2</sub> emissions. Our industry leading solutions are focused on improving IT efficiency by identifying and reducing costs and waste in hardware, software, energy and time.

The Department of Veterans Affairs deployed NightWatchman® and WakeUp™ as part of a complete power and patch management solution across 220,000 desktop PCs to help implement Executive Order 13423 electronics stewardship power management and satisfy the requirements set by the Energy Independence and Security Act.

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*“The growth in redundant infrastructure investments is costly, inefficient and unsustainable and has a significant impact on energy consumption.”*  
**Vivek Kundra, Federal Chief Information Officer**

*“\$24.7bn is wasted each year on hardware, maintenance, management, energy and cooling for unused servers, which is roughly equal to the cost of the entire thirteen year Apollo space program.”*  
**Alliance to Save Energy, Server Energy & Efficiency Report 2009**

GOVERNMENT

# Industry solutions

## NightWatchman®

NightWatchman is the most comprehensive market leading software solution for securely, remotely and centrally power managing computers. NightWatchman empowers organizations to realize significant energy savings while ensuring that user productivity remains unaffected. When they are not in use, computers can be automatically shutdown, suspended or put into a hibernated state in order to deliver rapid cost savings and energy and carbon emissions reductions.

## WakeUp™

WakeUp is a scalable, proven solution that ensures PCs are available, healthy and ready to use. By allowing PCs to be powered on and patched out of hours, WakeUp reduces the burden of support on your helpdesk while ensuring that branch or head office users are not disrupted. By using Computer Health™ to proactively identify issues on every computer and automatically remedy them, WakeUp enables

100% distribution success while delivering the best possible user experience from a healthy and up-to-date machine.

## NightWatchman® Server Edition

NightWatchman Server Edition revolutionizes data centre efficiency by measuring 'useful' activity across both physical and virtual Windows and UNIX servers. It provides the ability to reduce power consumption across all servers without any loss of availability by continually analyzing how much power is being wasted on unproductive processes. NightWatchman Server Edition is the key to making data centers and servers more efficient by reducing power consumption and removing redundant infrastructure.

## Nomad Enterprise®

Nomad Enterprise makes IT data invisible to the user by revolutionizing the reliable delivery of large O/S, software and patch distributions across thousands of PCs, servers and sites. It uses patented technology to make the most efficient

use of available network bandwidth while ensuring that other network traffic, like email or business applications, remain unaffected. Nomad significantly reduces costs by removing the need for time consuming and expensive site visits and by eliminating the need for secondary site servers.

## Shopping™

Shopping delivers rapid and significant cost reductions by empowering users to search for, find, request and receive applications through a self service 'shopping cart' on-demand. For software which needs to be licensed, a check is made to ensure sufficient licenses exist and then approval requests are automatically sent to chosen managers. Once requests are approved, the application is delivered automatically to the user without helpdesk intervention. Software can be requested permanently or 'rented' for a limited time period enabling software licenses to be reclaimed at a later date. Shopping can also be extended to handle requests for other resources such as security access, power policies and new hardware.



Today, the average desktop PC wastes nearly half of its power and the average server wastes one-third of its power." Urs Hölzle, Senior VP Operations, Google

## 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 \$360m in energy costs alone, cutting CO2 emissions by 3 million tons. We have many imitators, but there is only one 1E.

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