Solution Brief
Power Management

Benefits

- Self-funding — pays for itself
- Reduce bottom-line energy consumption and carbon dioxide (CO2) emissions
- Increase corporate social responsibility by putting your organization on the path to net-zero energy impact

Features

- Actively manages PC power state based on administrator set policies and user schedules
- Analyzes application usage, system performance, user behavior and IT maintenance tasks
- Creates a dynamic schedule unique to each PC
- Leverages Sleep and Hibernate for maximum flexibility and energy savings
- Predictively wakes up PCs before expected usage; does not require Wake-on-LAN
- Accommodates all user behavior and maintenance activities automatically
- Responds to changing schedules dynamically
- Uses built-in behavior analysis to determine user and IT-driven power-on requirements

Heuristic Power Management
Based on Real Usage Data

No organization can afford to ignore rising energy costs and their impact on the environment. IT Executives need a proven way to minimize infrastructure power consumption without negatively impacting user experience.

SysTrack achieves optimum IT infrastructure power management and maximizes savings through dynamic power schedule discovery based on actual usage. SysTrack helps organizations reclaim budget wasted on energy bills and reduce their carbon footprint, with savings beginning in as little as three days.

Dynamic Power Management Schedule

SysTrack collects and analyzes user data, creating a dynamic power management schedule based on users’ actual usage patterns and access requirements. Because the schedule is based on behavioral analysis of each desktop/user, SysTrack PM can precisely predict users’ access needs and adjust power to be on only when and where needed.

As users’ usage patterns change over time, SysTrack PM automatically and dynamically adjusts the power schedule to reflect these changes and ensure power management remains optimized.
The Best Power Management Solution

SysTrack is the preferred power management solution. Here’s why:

1. **Intelligent Discovery for Greater ROI** — SysTrack delivers a greater Return on Investment (ROI) by using patented Intelligent Discovery technology to determine actual user and application usage patterns for every device, enabling it to precisely identify all available idle times and thus create a much more inclusive power management schedule. Where other power management products use fixed schedule (“one size fits all”) solutions for all devices, only SysTrack develops a unique power schedule for each device.

2. **Automatic Accommodation of IT Functions** — Typically IT staffs choose to run IT functions (e.g. virus updates, backups, patches, etc.) during off-hours because they don’t want to impact user productivity during the day. IT recognizes that the cost of energy is significant but considerably less than the cost of the user. SysTrack is the only power management solution that automatically accommodates nightly IT functions. It identifies the minimum schedule required to run these functions, and automatically adjusts the power schedule for each desktop to run the functions with the minimum power usage.

3. **Accurate Reporting** — Because SysTrack learns the actual usage associated with each and every system, it can provide detailed reporting on power consumption, savings and projections of future savings. SysTrack’s Intelligent Discovery allows extensive reporting on a per user, per group or enterprise-wide basis. Other power management solutions don’t provide real reporting because they don’t have access to actual hours-of-use data.

4. **Upgrade Path to Desktop Virtualization** — SysTrack supports physical, virtual and hybrid environments, and integrates bootstorming prevention and other useful desktop virtualization technologies. If IT virtualizes their desktops, the investment in other power management solutions is lost. Only SysTrack provides an upgrade path for organizations planning desktop virtualization and enables IT to retain its investment.

5. **Fully Automatic Operation** — After a simple installation and configuration, SysTrack runs automatically without any administrative oversight and intervention. Incurring no administrative time and costs, SysTrack frees IT technicians to focus on other priority tasks.

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**IT Energy Consumption – Out of Control**

IT infrastructure power consumption and spending continue to spiral up, yet power management remains one of the easiest ways for IT to cut costs.

- Corporate and enterprise accounts today use nearly 600,000,000 PCs in business operations
- PCs contribute significantly to energy demands through electricity consumption:
  - Notebook: 40 watts
  - Desktop: 90 watts
  - High end workstation: 150 watts
- PCs give off heat which increases cooling costs; energy demand for cooling is approximately 1.2 times the electricity demand of the PC
The cost of electricity will likely continue to rise; the United States national average for electricity cost is approximately $0.0975 per kilowatt-hour.

A 100-watt desktop PC running 24x7 uses 158 KWh per month (72 KWh electricity, 86 KWh cooling) at an approximate cost of $15.41.

For each KWh of electricity generated, approximately 1.341 lbs. of CO2 is emitted; for each PC, 1.27 tons of CO2 are emitted per year.

The typical desktop is used for only 9 hours per day, with virus scanning, backup, patching and other IT operations taking 2 additional hours; weekend usage is even lighter.

Potential Savings

By reducing power consumption, potential savings can be realized based on four factors:

- PC usage (unique for each PC)
- Wattage rating (unique for each PC)
- Cooling load generated by PC equipment
- Applicable kWh cost from the utility company

Total savings can only be accurately determined by looking at each PC and usage individually. Some PCs may have zero waste, others as much as 85% waste. As a general rule, an organization may see reductions on average from 30%-70%.

Failed Remedies

IT has tried two common approaches to minimizing power consumption, with limited success:

- Utilize the Windows inactivity timer to allow hibernate or sleep.
  This typically defeats backups and patches. It also results in the annoying and costly occurrence of virus scans when people are at work. Lastly, Windows has no Group Policy Object (GPO) to set this up.

- Run products on set fixed schedules.
  The problem is that it is hard to set schedules that apply to everyone. Fixed schedules require lots of setup time, they don’t deal well with...
staggered schedules that are typical for users, they can’t adapt to mobile work forces.

Adaptive Automation

Another key to SysTrack’s delivering unparalleled power management optimization is Adaptive Automation.

SysTrack continuously and automatically adjusts power schedules based on actual program and user usage patterns. Exceptions for user behavior out of normal — such as working late, long running batch jobs started for overnight run, extensive upgrade/installation plans, and holidays — are handled automatically without administrative involvement.

Simple Configuration

SysTrack Power Management configures easily. Start by establishing the desired policies. Multiple policies are supported for complex environments. SysTrack automatically captures application and user behavior for 7–30 days to detect usage patterns.

SysTrack then begins automatic power management according to the specified policies and reflecting the usage patterns and adjusts individual desktop power management schedules dynamically.

Unparalleled Automated Reporting

No other power management solution leverages detailed data to the depth found in SysTrack.

Since SysTrack calculates power savings based on individual user behavior and unique PC profiles, customer will have the assurance that our power consumption and savings reports are precise and accurate.