WakeMyPC Enterprise Server Overview

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Data Synergy **WakeMyPC** provides a reliable and convenient way for users and IT staff to remotely power-on (or wake-up) workstations via a simple web interface. This allows workstations to be powered-off, or put into a low-power mode, when not required.

*"Used in tandem WakeMyPC and PowerMAN save power whilst enabling secure remote wake-up and desktop connection from anywhere, with minimal user training and network changes. We believe this solution will be of benefit to the wider HE and FE community." – **University of Nottingham***

The principle use for WakeMyPC is to maximize the benefits of workstation power management by allowing workstations to be remotely accessed whenever necessary. This removes a significant barrier to effective power management and delivers enhanced energy savings. WakeMyPC is an ideal companion to any power management initiative.

WakeMyPC Enterprise Server is a fully featured enterprise-class product providing:

- Ad-hoc workstation wake-up based upon just computer name, recent user name
- Ad-hoc workstation wake-up by workstation group
- Reliable support for complex network topologies, often with no network changes
- Scriptable wake-up support for scheduled maintenance, AV scans or updates
- Optional integration with Data Synergy PowerMAN and PowerMAN Enterprise Server

Full product details are available on the **Data Synergy website.**

WakeMyPC Benefits

Data Synergy **WakeMyPC** delivers many business benefits:

1. Reduces workstation energy costs through more effective power management
2. Delivers ad-hoc remote workstation access for staff in the evenings, at weekends and whilst on secondment elsewhere
3. Avoids productivity loss from staff absence due to family emergencies, unexpected weather conditions or problems with transport infrastructure
4. Improves staff recruitment and retention by enhancing flexible working arrangements

In addition WakeMyPC allows IT staff to:

1. Remotely wake and access any workstation to carry out essential maintenance or upgrades
2. Perform scheduled workstation wake-up for anti-virus scans, patch management and updates

Technical Features and Requirements

The WakeMyPC Enterprise Server software is installed on a single organisation server to provide centralised workstation wake-up. The software has a small footprint and does not require a dedicated server. The software fully supports operation in a virtualised environment and is highly scalable. A single server may support over 100,000 registered workstations. The server collects and stores technical information about each workstation and provides a convenient web interface for users to quickly wake-up workstations.

WakeMyPC Enterprise Server

WakeMyPC Server has the following technical requirements:

- A server with at least 2GB of RAM running Windows Server 2008 or later. Larger installations may require more RAM.

- Internet Information Services with ASP.NET support and the free Microsoft .NET 4.0 Framework.

- Free Microsoft® SQL Server/Express Edition 2008 or later with the most recent service pack installed.

- Approximately 1KB of data storage per client workstation (i.e. 20,000 PCs will require approximately 20MB of storage).

Automated workstation registration

An optional **WakeMyPC Agent** is supplied which fully automates the task of collecting and maintaining Windows-based workstation information. This removes the need for time-consuming manual systems administration. The common WakeMyPC Agent supports the following platforms:

- Windows Windows 7, Windows 8 and Windows 10/11 (32-bit and 64-bit platforms)

- Windows 2008 Server or later

WakeMyPC Agent is designed to integrate seamlessly with a **Windows Active Directory / Group Policy (GPO)** infrastructure. The software is supplied as an MSI together with an industry standard ADM/ADMX policy file. Typically the agent may be deployed in only a few minutes. WakeMyPC Agent may be installed with a variety of alternative deployment and configuration methods. Common examples are:

- ZENworks
- LANDesk
- RM Community Connect
- Altiris
- HP OpenView
- SMS
- SCCM
- XCOPY style installation (single self-installing EXE)

Advanced Wake-on-LAN Technology

Traditional Wake-on-LAN (WoL) technology has a reputation for being difficult to implement and unreliable in practice. Basic WoL may only be used in small un-routed networks, is not inherently insecure and unsuitable for use over the Internet. **WakeMyPC** overcomes these limitations by using a variety of advanced networking techniques. Combined these ensure a reliable and consistent user experience often with no network changes required. The product improves upon traditional WoL:

- Allows wake-up by users using **just** their user or computer name
- Fully supports complex, routed networks **without** requiring network-wide broadcasts
- Allows Wake-on-LAN to be secured (may require some router configuration)
- Provides confirmation that workstation has been successfully woken
- Seamlessly integrates remote wake-up and remote desktop connection

Complementary tools

Data Synergy also provides the following related tools:

- Free **WOLMAN command-line** tool for investigating and debugging WoL network issues. This is included with the WakeMyPC Server and is also available directly from the Data Synergy website

- Commercial **DMCMOS32 utility** for configuring BIOS features, such as WoL, on large numbers of similar computers

Improve Power Management Compliance

Data Synergy's **PowerMAN** product is an ideal companion for any WakeMyPC deployment. PowerMAN is an advanced software product giving organisations of all sizes a simple and effective solution to manage PC running costs. PowerMAN complements the built-in power management features of Microsoft Windows® by providing:

- Comprehensive, centralised configuration of PC power management

- Web-based, organisation-wide reporting of PC usage and costs

PowerMAN's innovative approach allows PC power features to be simply managed using familiar Windows tools. This dramatically reduces implementation time and delivers rapid results. PowerMAN's unique web-reporting system allows both IT and non-IT staff to monitor progress and identify areas for improvement.

PowerMAN is very lightweight and scales very well. The client software (power policy implementation) is configured using standard registry based settings or Windows Group Policy. This does not normally require any additional server resources and will scale to the largest Windows based networks with ease. The PowerMAN reporting (server) software is only used for reporting and can handle > 50,000 computers on a single server. PowerMAN has minimal bandwidth requirements and is designed to work alongside existing proxy and firewall systems. Typically, less than 500 bytes of network traffic is generated per client PC per day and around 1MB of data is logged per PC per year.

Further Information

To find out more about **Data Synergy WakeMyPC** please talk to your Sales Representative or authorised reseller. Alternatively please read the following documents available on the Data Synergy website:

- **WakeMyPC Administrator Guide** – provides full technical details and several installation walk-throughs

- **WakeMyPC Operations Guide** - explains how to use the WakeMyPC Server software.

- **WakeMyPC Agent Installation Guide** – explains how to deploy the optional agent software

- **WakeMyPC FAQ** – Answers frequently asked product questions

- **Wake-on-LAN Explained** - discusses WoL network implementation issues in further detail.

About Data Synergy

Data Synergy is a British company based in Sheffield. We have over fifteen years' experience developing and supporting software solutions for enterprise PC deployment and management. We do not resell other vendors' products and do all of our development, sales and support from our UK base.

Our products have evolved through listening to customer ideas and applying our unrivalled knowledge of PC internals. If you have a suggestion for a new product or feature we would love to talk to you.

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