

Wired for Management Specification Quick Reference Guide

What is the Wired for Management Baseline Specification?



- A common set of standards-based management capabilities across desktop, server and mobile systems.
- Provides greater system control, flexibility and interoperability which helps lower the total cost of ownership (TCO).
- Incorporates emerging standards and maintains compatibility with existing management technologies.
- Championed by Intel, in cooperation with Microsoft and industry-leading PC and management software manufacturers.

Wired for Management Features

Customer Benefits

Instrumentation

- Provides hardware and software information in a standard, easily accessible format.

Simplifies asset management

- Retrieve system information on-demand for inventory and upgrades
- Monitor systems for policy compliance and theft

Network Service Boot

- Enables basic management and file transfer services on newly installed or hung systems

Enables remote new system set up, diagnostics and update capabilities, including:

- Download operating system and applications to new systems over the network from a management server¹
- Self-initiate diagnostics for hung systems
- Automatically update operating system drivers with Windows NT* 5.0

Remote Wake Up

- Remotely activates system from a low power state to a working state.

Perform off-hours maintenance

- Reduce end user interruptions and network load during peak working hours
- Save time and labor cost

Power Management

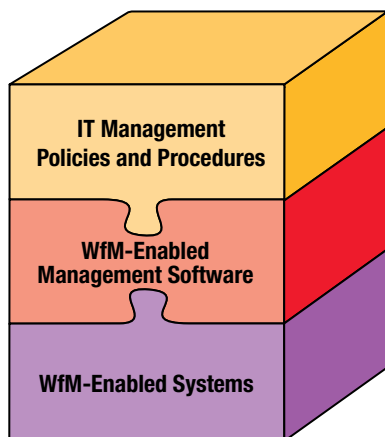
- Automatically switches system to a sleeping state to conserve power. Quickly returns system to working state.

Conserves energy when systems are idle

- Increase equipment and component life
 - Power down systems after remote maintenance
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¹Such as Intel LANDesk® Configuration Manager or other management servers.

The complete management solution requires three components:



1. IT policies and procedures determine how hardware and software tools are used to effectively manage the enterprise.
2. Workgroup and enterprise management software allows Administrators to access the capabilities of the Wired for Management (WfM)-enabled systems. Software vendors include Microsoft, Computer Associates, Tivoli, Hewlett-Packard, Intel and others.
3. The WfM baseline specification provides a common set of system management capabilities in the system.

Examples of Wired for Management-enabled systems in action:

1. **Add new systems to the network:** A technician connects new systems to the network and leaves to help other customers. Next, a central Administrator or automated server uses the Network Service Boot and Remote Wake Up features to load the operating system and standard applications over the network. After the installation, the Power Management feature places the systems in a sleeping state, ready for the new users to begin working.
2. **Manage assets and deploy a software upgrade:** The central Administrator takes an automated inventory using the Instrumentation feature and determines which systems meet the necessary hardware requirements. Next, an off-hours software distribution is scheduled. That night, the target systems are activated using the Remote Wake Up feature and the software upgrade is automatically installed over the network. Finally, the Power Management feature puts the upgraded systems into a sleep state, ready to resume work in the morning.

Wired for Management Core Technologies

Technology	WfM 1.1 Implementation
Instrumentation	Desktop Management Interface (DMI) v2.0. Incorporates Windows Management Interface (WMI) when available. Servers may offer DMI 2.0 or SNMP based MIBII and Host Resources MIB.
Network Service Boot	Preboot execution environment based on DHCP and TFTP.
Remote Wake Up	Wake on LAN ² and Magic Packet* technologies. Incorporates Packet Filtering when available.
Power Management	Advanced Power Management (APM) v1.2. Incorporates Advanced Power & Configuration Interface (ACPI) when supported.

²Wake on LAN technology is a result of the Intel-IBM Advanced Manageability Alliance and a trademark of IBM.

