

Overview

HP Insight Power Manager (IPM) is an integrated power monitoring and management application that provides centralized monitoring and control of datacenter power consumption and thermal output. This software solution provides new energy instrumentation levers into HP Systems Insight Manager for greater Unified Infrastructure Management, and is compatible with any operating system residing on the managed server. IPM provides efficient and effective tools needed to increase the capacity of your datacenter by reducing power and cooling requirements of ProLiant servers to an amount that accurately reflects the workload of your server. Built upon ProLiant Power Regulator technology it provides performance when you need it, and cost savings when you don't.

Insight Power Manager is installed on the same server as the HP Systems Insight Manager console. The monitored server must contain a license for either iLO Advanced or iLO Select. There is no software required on the monitored server other than the management agents required for HP Systems Insight Manager usage. There is no software required on the client machine used to view the information other than a web browser.

HP Insight Power Manager (IPM) include one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, please visit:

<http://www.hp.com/services/insight>.

A license entitlement certificate will be delivered in place of a license activation key. The license entitlement certificate will contain information needed to redeem the license activation key(s) online or via fax. This new electronic redemption process will allow for easier license management and better service and support tracking. For more information, please visit: <http://www.hp.com/go/ICe-license>.

What's New

Support for Next Generation Servers (G6):

- Support for HP ProLiant BL280c G6, BL460c G6, BL490c G6
 - Support for HP ProLiant DL360 G6, DL370 G6 and DL380 G6 Servers
 - Support for HP ProLiant ML350 G6 and ML370 G6
 - IPM installer separate from HP SIM installer
-

At A Glance

- Now includes HP's Technical Support and Update Service
 - BladeSystem c-Class enclosure monitoring
 - Power capping - The ability to limit a server's overall power budget to an average Wattage limit
-

Overview

Models

HP Insight Power Manager software License including 1 year of 24x7 Technical Support and Updates , Electronic	T9079AAE
NOTE: This part number can be purchased as a single license or as multiple licenses with a single activation key. Customer will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
NOTE: Electronic LTUs are only available through limited points of sales; if not available, order a printed license entitlement certificate (xxxxx-B2x) instead.	
HP Insight Power Manager software, No Media, 1-Server License, including 1 year of 24x7 Technical Support and Updates	452677-B21
NOTE: Customers purchasing this upgrade must already have an iLO Advanced or Select license on each managed server. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
HP Insight Power Manager software, No Media, Flexible-Quantity License, including 1 year of 24x7 Technical Support and Updates	452678-B21
NOTE: For use with multiple servers. This part number can be used to purchase multiple licenses of Insight Power Manager with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
HP Insight Power Manager software, No Media Tracking License without 1 year of 24x7 Technical Support and Updates.	433693-B21
NOTE: Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with HP. Only customers that have implemented an AKA agreement prior to July 9, 2007 should purchase tracking licenses without 24 x 7 support.	
HP Insight Power Manager software, No Media, Tracking License including 1 year of 24x7 Technical Support and Updates	453897-B21
NOTE: For use with signed and implemented Activation Key Agreements only. Purchase of this part number entitles the customer to deploy additional licenses of the product under the terms of the existing Activation Key Agreement. For additional information on Activation Key Agreements please visit: http://h18004.www1.hp.com/products/servers/proliantessentials/license/akalic.html	
NOTE: For all packs listed above, license entitlement certificates will be delivered. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). HP Systems Insight Manager (SIM) and product documentation should be downloaded from http://www.hp.com/go/ipm or obtained from the Management CD shipping with every ProLiant server.	

Standard Features

Centralized User Interface for Power and Thermal Management Tightly integrated into HP SIM, the Insight Power Manager provides a central location where Power and Thermal data for tens, hundreds, or thousands of servers may be viewed and managed.

Power Consumption graph The Power Consumption graph displays the Average and Peak Power Consumption for the selected server or collection of servers.

The Average Power Consumption data points show the arithmetic mean for the power consumed over the time period represented by a single point on the graph. The line formed by the Average Power Consumption data points shows the steady-state power consumption of the server.

The Peak Power Consumption data points show the highest power consumption over the time period represented by a single point on the graph. The line formed by the Peak Power Consumption data points shows the short-term spikes in power consumption.

Data may be displayed in Watts or Btu-hr units of measure. The time scale for the graph may be adjusted to show hours, days, weeks, months or years.

CPU Performance graph The CPU Performance graph displays the aggregated CPU Utilization and the Effective CPU Speed of the selected server.

The aggregated CPU Utilization is the CPU utilization for all processor cores averaged together. The line formed by the CPU Utilization data points shows the workload on the server.

The Effective CPU Speed shows the resulting gigahertz (GHz) of the server's CPUs after calculating the effect of HP Power Regulator down-shifting the CPUs to lower speeds for power saving reasons. In HP Dynamic Power Savings Mode, the Effective CPU Speed will move up and down as required to accommodate the workload of the server.

The time scale for the graph may be adjusted to show hours, days, weeks, months or years.

Inlet Air Temperature graph The Inlet Air Temperature graph displays the temperature of the ambient air as it enters the selected server(s). The work performed by the server(s) creates heat that must be cooled by the data center's cooling system. The busier the servers, the more heat must be cooled to maintain a constant data center temperature. A temperature trend line is added for the selected server(s) to show if the data center temperature is rising or falling over time.

Data may be displayed in Fahrenheit or Celsius units of measure. The time scale for the graph may be adjusted to show hours, days, weeks, months or years.

Power Capping Limiting the server(s) power consumption to an average level, power capping can be set to minimize overall power consumption and heat output.

Standard Features

Dynamic Power Capping Dynamic Power Capping in HP Insight Control Environment represents a significant advancement in power management. Unlike previous power capping technologies Dynamic Power Capping will safely limit power usage with no performance degradation and without risk to electrical infrastructure. For single rack servers, power caps applied via the iLO management processor will limit power usage to a specific Watt or BTU/hr level. For enclosures of blades, users will set an enclosure level power cap, and the Onboard Administrator will dynamically adjust individual server power caps based on their specific power requirements. By capping power usage at historical peak power usage instead of significantly higher face-plate, ROM burn, or power calculator default values, IT organizations can fit up to 36% more servers in their existing rack infrastructure.

Supported servers for Dynamic Power Capping:

HP ProLiant BladeSystem c-Class:

- HP ProLiant BL280c G6 Server Blade
- HP ProLiant BL460c G6 Server Blade
- HP ProLiant BL490c G6 Server Blade
- HP ProLiant BL2x220c G5 Server Blade
- HP ProLiant BL260c Server Blade
- HP ProLiant BL460c Server Blade
- HP ProLiant BL460c G5 Server Blade
- HP ProLiant BL465c G5 Server Blade
- HP ProLiant BL495c G5 Server Blade

HP ProLiant BladeWorkStation:

- HP ProLiant xw2x220c Workstation Blade

HP ProLiant BL c-Class Enclosure:

- HP BladeSystem c7000 Enclosure
- HP BladeSystem c3000 Enclosure

HP ProLiant DL (rack-optimized):

- HP ProLiant DL360 G6
- HP ProLiant DL370 G6
- HP ProLiant DL380 G6
- HP ProLiant DL360 G5
- HP ProLiant DL380 G5

HP ProLiant ML (expansion-optimized):

- HP ProLiant ML350 G6
- HP ProLiant ML370 G6

Analysis dashboard

Each graph has an Analysis dashboard that summarizes key information for the selected server(s). The data displayed varies for each graph and includes total power consumed in kWh, the estimated costs of powering and cooling the selected server(s) and the estimated costs saved through the use of policy-management based on HP's Power Regulator technology.

Standard Features

Actions section and policy management The Insight Power Manager supports taking action on the selected server(s). Insight Power Manager can change the HP Power Regulator settings on a single server or on multiple servers all at once. These actions may be executed immediately or scheduled to occur at a future time or on a recurring basis. Action scheduling can be used to set time-based power policies on single servers as well as collections of servers.

Customer Usage Scenarios

- **Datacenter Capacity Planning** - ProLiant and Integrity customers who are deploying these servers in production environments may use IPM to determine if additional servers can successfully be provisioned from a power and cooling perspective. The actual power consumption of the selected server(s) can be compared to the circuit size of the electrical infrastructure and cooling capacity of the computer room air conditioning (CRAC) units. Detailed reports within IPM enables productive discussions between IT and facilities administrators.
- **Operational Cost Reduction** - Cost conscious businesses who are interested in minimizing server power and cooling costs to the minimum required without compromising performance may use IPM to establish dynamic power management policies that will provide maximum performance when needed, and cost savings when maximum performance is not required.
- **Business Unit Chargeback** - IPM enables the analysis of actual power and cooling costs by integrating a power meter into new ProLiant servers and by consolidating the power data to a central location. This information can be used to charge business units or third parties with the actual energy operational costs associated with workload processing.
- **Datacenter Modeling** - Years of power and thermal data may be stored with the Insight Power Manager. This data may be used for historical trending and analysis to create a model of the datacenter that can be used for planning future datacenters as well as upgrades, if needed, to existing ones.
- **Virtualization and Server Consolidation** - IPM can help assist IT administrators in determining which physical server loads might be compatible for consolidation onto a single physical or virtualized server.

Complementary Products ProLiant Essentials Foundation Pack (shipped with every ProLiant Server from HP)
NOTE: [May be named the Server Setup & Management Pack with some servers](#)

HP Systems Insight Manager

HP Insight Control suite

HP Integrated Lights-Out Advanced

HP Integrated Lights-Out Advanced for Bladesystem

HP ProLiant Essentials Rapid Deployment Pack

HP SmartStart Scripting Toolkit

HP ProLiant BL, ML and DL servers (except ProLiant 100 Series)

Supported Product

Required iLO firmware version for monitoring	For HP ProLiant Servers: iLO 2 version 1.20 or later For Integrity blade servers firmware T.02.17 or later For Integrity servers firmware F.02.17 or later
Required Onboard Administrator firmware version	For HP BladeSystem c-Class Version 1.30 or later
Required iLO firmware version for power capping	For HP ProLiant Servers: iLO 2 version 1.30 or later
Required BIOS version for power capping	For HP ProLiant Servers Version dated 5/1/07 or later

Supported servers for monitoring

ProLiant BL c-Class (HP BladeSystem):

- HP ProLiant BL280c G6 Server Blade
- HP ProLiant BL460c G6 Server Blade
- HP ProLiant BL490c G6 Server Blade
- HP ProLiant BL685c G6 Server Blade
- HP ProLiant BL2x220 G5 Server Blade
- HP ProLiant BL260c G5 Server Blade
- HP ProLiant BL460c Server Blade
- HP ProLiant BL460c G5 Server Blade
- HP ProLiant BL465c Server Blade
- HP ProLiant BL465c G5 Server Blade
- HP ProLiant BL480c Server Blade
- HP ProLiant BL495c G5 Server Blade
- HP ProLiant BL680c G5 Server Blade
- HP ProLiant BL685c Server Blade

ProLiant BladeWorkStation:

- HP ProLiant xw460c Workstation Blade
- HP ProLiant xw2x220c Workstation Blade

ProLiant BL c-Class Enclosure:

- HP BladeSystem c7000 Enclosure
- Hp BladeSystem c3000 Enclosure

ProLiant ML (expansion-optimized):

- HP ProLiant ML350 G6
- HP ProLiant ML370 G6
- HP ProLiant ML350 G5
- HP ProLiant ML370 G5

ProLiant DL (rack-optimized):

- HP ProLiant DL360 G6
- HP ProLiant DL380 G6
- HP ProLiant DL360 G5

Supported Product

- HP ProLiant DL365
- HP ProLiant DL380 G5
- HP ProLiant DL385 G2

Integrity BL c-Class Server (HP BladeSystem) - entry class:

- HP Integrity BL860c Server Blade
- HP Integrity BL870c Server Blade

Integrity entry class:

- HP Integrity rx2660
- HP Integrity rx3600
- HP Integrity rx6600

NOTE: This is a list of supported servers. Some may be discontinued.

Other product information For additional information on Insight Power Manager software, please visit: <http://www.hp.com/go/ipm>.

Service and Support, HP Care Pack, and Warranty Information

Warranty	HP will replace defective delivery media replacement for a period of 90 days following the date of purchase
Education Services	<p>Training is an essential part of server management. The ProLiant Essentials curriculum provides a broad range of instructor-led and online courses, designed to build both core and advanced skills in server implementation and management.</p> <p>Education services can be purchased in two ways:</p> <p>HP Care Pack Total Education: This pack provides "credits" that can be used for any of more than 200 different instructor-led courses offered at HP education centers. Credits can also be used for any of more than 3,000 online courses offered through the HP IT Resource Center.</p> <p>Technology-specific HP Care Pack: These services are designed to meet particular training needs specific to a certain technology or level of training.</p> <p>For more information: http://www.hp.com/hps/carepack/services/cp_sw_technical.html</p>
HP Software Support	<p>HP offers a number of software support services, many of which are provided to customers at no additional charge.</p> <p>Software Technical Support and Update Service</p> <p>ProLiant Essentials Virtual Machine Management Pack includes one year of 24 x 7 HP Software Technical Support and Update Service. This service provides access to HP technical resources for assistance in resolving software implementation or operations problems. The service also provides access to software updates and reference manuals either in electronic form or on physical media as they are made available from HP. (Customers who purchase an electronic license to use are eligible for electronic updates only.) With this service, Insight Control and ProLiant Essentials customers will benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information about this service, see http://www.hp.com/services/insight.</p> <p>If you received a license entitlement certificate, registration for this service will automatically take place upon redemption of the license certificate/key online and a service contract will be created for you.</p> <p>If the license information you received for your product instructs you to register for Software Technical Support and Update Service, please follow the instructions or you will not be eligible for telephone support or product updates.</p> <p>Once registered for this service, you will receive a letter in the mail containing the Customer Service Phone number for your reference and your Service Agreement Identifier (SAID). After you have received your SAID, you can go to the Software Update Manager (SUM) web page to view your contract online and elect electronic delivery for your updates.</p> <p>Join the Discussion</p> <p>The HP Support Forum is a community-based, user-supported tool for HP customers to participate in discussions amongst the customer community about HP products. For discussions related to Insight Control and ProLiant Essentials software, see the "Management Software and System Tools" area.</p> <p>Software and Drivers Download Pages</p> <p>Provides latest software and drivers for your ProLiant products.</p>

Service and Support, HP Care Pack, and Warranty Information

Management Security (<http://www.hp.com/servers/manage/security>)

HP is proactive in its approach to the quality and security of all its management software. Be sure to check this website often for the latest down loadable security updates.

Obtain the latest SmartStart Release (<http://www.hp.com/servers/smartstart>)

The SmartStart, Management, and Firmware CDs are now freely available for download following a simple registration from the SmartStart web site. If you wish to receive physical kits with each release, you can order single release kits from the SmartStart web site. To receive proactive notification when SmartStart releases are available, subscribe to Subscriber's Choice at <http://www.hp.com/go/subscriberschoice>.

For support questions in the U.S. that are not covered in any of the above services, please call 1-800-HP-INVENT (1-800-474-6836). (When prompted, say "Insight Manager.") HP Worldwide numbers for HP SIM, Insight Control, and ProLiant Essentials are available at <http://www.hp.com/country/us/en/wwcontact.html>.

Related Options

HP Insight Control and ProLiant Essentials Offerings

Remote Management

NOTE: Electronic licensing options are available for Insight Control suites and select ProLiant Essentials software products. Please see the appropriate Insight Control and ProLiant Essentials QuickSpecs for additional information.

HP Insight Control suite for ProLiant ML/DL servers

HP Insight Control suite License including 1 year of 24x7 Technical Support and Updates, Electronic T9074AAE

NOTE: This part number can be purchased as a single license or as multiple licenses with a single activation key. Customer will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.

NOTE: Electronic LTUs are only available through limited points of sales; if not available, order a printed license entitlement certificate (xxxxx-B2x) instead.

HP Insight Control suite No Media, 1-Server License, including 1 year of 24x7 Technical Support and Updates 452148-B21

NOTE: Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.

HP Insight Control suite, No Media, Flexible-Quantity License, including 1 year of 24x7 Technical Support and Updates 452149-B21

NOTE: This part number can be used to purchase multiple licenses with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.

HP Insight Control suite, No Media, 10-Server License, including 1 year of 24x7 Technical Support and Updates 452676-B21

NOTE: Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.

HP Insight Control suite, Tracking License, without 1 year of 24x7 Technical Support and Updates 436278-B21

NOTE: Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with HP. Only customers that have implemented an AKA agreement prior to July 9, 2007 should purchase tracking licenses without 24 x 7 support.

HP Insight Control suite, No Media, Tracking License, including 1 year of 24x7 Technical Support and Updates 452150-B21

NOTE: For use with signed and implemented Activation Key Agreements (AKA) only. Purchase of this part number entitles the customer to deploy additional licenses of the product under the terms of the existing Activation Key Agreement. Includes one year of 24 x 7 HP Software Technical Support and Update Service. No physical components or license keys are delivered in conjunction with the purchase of this part number. For more information on Activation Key Agreements please visit:

<http://h18004.www1.hp.com/products/servers/proliantessentials/license/akalic.html>

Related Options

HP Insight Control Management Software Media Kit	436222-B21
NOTE: Insight Control Management DVD media without licenses. Contains Insight Manager and Essentials software products and components licensed by Insight Control Management suites. Uses an integrated installer to perform quick and accurate software installation and updates.	
NOTE: The Insight Control suite includes a single product key to license the ProLiant Essentials Performance Management Pack, ProLiant Essentials Vulnerability and Patch Management Pack, and Insight Power Manager, plus separate product registration codes to license the ProLiant Essentials Rapid Deployment Pack and the iLO Advanced.	
HP Insight Control suite for HP BladeSystem	
HP Insight Control suite for BladeSystem License including 1 year of 24x7 Technical Support and Updates , Electronic	T9075AAE
NOTE: This part number can be purchased as a single license or as multiple licenses with a single activation key. Customer will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
NOTE: Electronic LTUs are only available through limited points of sales; if not available, order a printed license entitlement certificate (xxxxx-B2x) instead.	
HP Insight Control suite for BladeSystem, No Media 1-Server License including 1 year of 24x7 Technical Support and Updates	453484-B21
NOTE: Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
HP Insight Control suite for BladeSystem RDP Upgrade License including 1 year of 24x7 Technical Support and Updates, Electronic	T9101AAE
NOTE: For use in environments where RDP is already installed and licensed. This part number can be purchased as a single license or as multiple licenses with a single activation key. Customer will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
NOTE: Electronic LTUs are only available through limited points of sales; if not available, order a printed license entitlement certificate (xxxxx-B2x) instead.	
NOTE: This option does not include RDP licenses.	
HP Insight Control suite for BladeSystem RDP Upgrade, No Media, 1-Server License including 1 year of 24x7 Technical Support and Updates	453485-B21
NOTE: For use in environments where RDP is already installed and licensed. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
NOTE: This option does not include RDP licenses.	
HP Insight Control suite for BladeSystem, No Media, Flexible- Quantity License including 1 year of 24x7 Technical Support and Updates	436749-B22
NOTE: This part number can be used to purchase multiple licenses with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via	

Related Options

<p>fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.</p> <p>HP Insight Control suite or BladeSystem RDP Upgrade, No Media, Flexible-Quantity License including 1 year of 24x7 Technical Support and Updates</p> <p>NOTE: For use in environments where RDP is already installed and licensed. This part number can be used to purchase multiple licenses with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.</p> <p>NOTE: This option does not include RDP licenses.</p>	<p>436753-B22</p>
<p>HP Insight Control suite for BladeSystem, No Media, 8-Server Licenses including 1 year of 24x7 Technical Support and Updates</p> <p>NOTE: Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.</p>	<p>436747-B22</p>
<p>HP Insight Control suite for BladeSystem RDP Upgrade, No Media 8-Server Licenses including 1 year of 24x7 Technical Support and Updates</p> <p>NOTE: For use in environments where RDP is already installed and licensed. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.</p>	<p>436751-B22</p>
<p>HP Insight Control suite for BladeSystem, Tracking License including 1 year of 24x7 Technical Support and Updates</p> <p>NOTE: For use with signed and implemented Activation Key Agreements (AKA) only. Purchase of this part number entitles the customer to deploy additional licenses of the product under the terms of the existing Activation Key Agreement. Includes one year of 24 x 7 HP Software Technical Support and Update Service. No physical components or license keys are delivered in conjunction with the purchase of this part number. For more information on Activation Key Agreements please visit: http://h18004.www1.hp.com/products/servers/proliantessentials/license/akalic.html</p>	<p>437786-B22</p>

<p>Service and Support Offerings (HP Care Pack Services)</p>	<p>Insight Power Manager - 3 year, 24x7 Unlimited Software Support includes technical support and Software updates</p> <p>NOTE: For more information, customer/resellers can contact http://www.hp.com/hps/carepack/services/</p>	<p>UF517E</p>
---	---	---------------

Related Options

Environment-friendly Products and Approach

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

© Copyright 2009 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

Microsoft and Windows NT are US registered trademarks of Microsoft Corporation.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.