IBM Systems Director Active Energy Manager for Power Systems, V4.3 helps you monitor and manage the power and thermal usage of your IT environment

Table of contents

1 Overview
2 Key prerequisites
2 Planned availability date
2 Description
5 Product positioning
6 Program number
6 Publications
6 Technical information
8 Ordering information
10 Terms and conditions
13 Prices
14 AP distribution

At a glance

IBM Systems Director Active Energy Manager™ (AEM) V4.3 software, an IBM® Systems Director plug-in, is available on the AIX® and Linux® operating systems to help you monitor and manage the power and thermal usage of your IT environment. AEM is a unique energy management software tool that can provide a single view of the actual power usage across systems in your infrastructure as opposed to the benchmarked power consumption.

The main new features in this release are:

- IBM POWER7™ technology-based servers can be monitored for energy consumption and can be energy-managed from AEM. This includes the ability to set power capping and set static power savings mode.
- PDUs from Server Technologies and Geist can now be monitored. By adding these popular products, AEM continues to increase its scope.
- AEM supports integration with the latest releases of APC's InfraStruXure Central V5.1 and V6.0 and Eaton's Power Xpert V2.0 for monitoring power and cooling infrastructure.

Overview

IBM Systems Director Active Energy Manager (AEM) V4.3 is an energy management solution designed to effectively manage the energy usage in data centers. Monitoring a wide range of equipment, AEM retrieves thermal and power information via external sensors and collects alerts, events, and data from facility providers related to power and cooling equipment. AEM is also designed to measure, monitor, and manage the energy management components built into IBM servers at the system, chassis, or rack level. As it exploits the energy-saving capabilities on IBM equipment, AEM can help in the analysis of data center efficiency and be used as a tool for implementing data center efficiency changes which may result in monetary savings.

AEM V4.3 continues to provide energy monitoring and management for Power Systems™ and System x® servers, as well as energy monitoring of IBM System z10® servers. AEM also delivers a source of energy management data that can be exploited by Tivoli® enterprise solutions such as IBM Tivoli Monitoring for Energy Management.

AEM V4.3 integrates with the latest releases of American Power Conversion Corporation's (APC) InfraStruXure Central V5.1 and V6.0 and Eaton Corporation's...
Power Xpert V2.0 and Power Xpert Reporting V2.0 for monitoring power and cooling infrastructure. With an increased knowledge of what is occurring with their power and cooling devices, users can take corrective actions if problems with those devices arise. AEM users can be notified and create automation plans to protect their servers.

AEM V4.3 builds upon AEM V4.2 and offers the following new features and enhancements:

- Energy monitoring and management of new POWER7 servers
- Monitoring energy data provided by PDUs from Server Technologies and Geist
- Monitoring equipment via an IPv6 connection

AEM V4.3 is positioned as a key component of energy-efficient IBM technologies and services as part of the Dynamic Infrastructure® strategy in support of Smarter Planet™. AEM is also part of the New Enterprise Data Center strategy and is delivered as a plug-in to IBM Systems Director.

**Key prerequisites**

IBM Systems Director Active Energy Manager for Power Systems, V4.3 has the following prerequisites:

- IBM Systems Director V6.2 and updates required for IBM Systems Director Active Energy Manager V4.3
- One of these operating systems:
  - AIX V5.3 with Technology Level 06 Service Pack 4, or later
  - AIX V6.1 with Technology Level 01 Service Pack 1, or later
  - Red Hat Enterprise Linux AS 4 for POWER®
  - Red Hat Enterprise Linux AP 5 for POWER
  - Novell SUSE Linux Enterprise Server 10 for POWER
  - Novell SUSE Linux Enterprise Server 11 for POWER

**Planned availability date**

June 25, 2010

**Description**

AEM V4.3, is designed to simplify the management of energy consumption across multiple IBM and non-IBM systems. AEM tracks energy use over time and can assist you in determining how to reallocate energy to additional servers without adding additional energy or cooling equipment. When energy is constrained, AEM is designed to allow energy to be allocated on a server to server basis.

AEM is also designed to track and allocate energy consumption in a manner intended not to affect performance. Sensors and alerts can warn you if limiting energy to a server could affect performance.

AEM is designed to increase your capability to control energy consumption and improve energy use efficiency, which can potentially result in savings and cost reductions.

AEM is intended to help you:

- Increase energy use efficiency by controlling energy use across the data center
• Negotiate competitive utility rates based on accurate energy use trend assessments
• Limit server energy consumption by capping maximum energy consumption
• Perform server-to-server energy consumption comparisons

By enabling you to meter energy use and trend historical data, AEM is designed to help reduce energy costs in the data center. AEM is also designed to complement and integrate with higher-level management software such as Tivoli. AEM interfaces with the IBM Tivoli Monitoring for Energy Management.

AEM V4.3 can help protect your IT investment through its open design and support for industry standards which enables heterogeneous physical and virtual management with support for multiple platforms and operating systems.

AEM V4.3 supports the following endpoints:
• IBM BladeCenter®
• Power Systems, including POWER7 servers
• System x
• System z® servers

Certain non-IBM, legacy IBM, and IBM Storage Systems can be monitored through PDU support. In addition, AEM can collect information from select facility providers including Liebert's SiteScan from Emerson Network Power, InfraStruXure Central from APC, and Power Xpert and Foreseer from Eaton. Sensors from SynapSense, iButton, Sensatronics, SmartWorks, and Arch Rock are also supported, in order to provide a view of data center environmental data, and for equipment that does not have its own built-in sensors. AEM V4.3 can perform monitoring and management functions for all supported systems from a single console.

AEM V4.3 provides no-charge monitoring functions and a set of optional chargeable (fee-based) management functions.

**AEM monitoring functions (no-charge)**

AEM V4.3 is designed to provide monitoring functions for devices that can connect to select Power Distribution Units (PDUs). This enables monitoring functions for systems that do not have support for AEM; for example, older servers and low- and midrange storage devices. By plugging these systems into an intelligent PDU (a smart power strip), AEM is designed to be able to collect energy information from I/O drawers plugged into the PDU, providing a more complete view of energy used in the data center. Additionally, AEM provides users power management functions for intelligent PDUs. Through AEM, users can turn off individual outlets on the PDUs. This allows administrators to prevent the plugging in of unauthorized equipment in a rack. It also provides a way to quick cut power usage in case of emergencies. New in this release is support for PDUs from Server Technologies and Geist.

*Power trending* is a monitoring function that displays energy use for individual systems or groups of systems over time (in a graph or table format) to help enable you to understand energy use trends within and across your systems.

*Thermal trending* is a monitoring function that displays information on the inlet and exhaust temperatures for individual systems one at a time to help you understand thermal characteristics of your systems. Incorporating this data into one centralized software-based energy use offering allows finite and localized temperature adjustments within the IT shop to help reduce energy costs for cooling.

Support for facility providers is a function that retrieves information from Emerson Network Power's SiteScan application, APC's InfraStruXure Central, and Eaton's Power Xpert and Foreseer. Numerous attributes associated with the energy usage of power and cooling equipment can be collected, and made available through AEM. This provides a broader scope of energy information within the data center while including a view of facilities equipment. New in this release is the ability to integrate with the newest releases of these products.
Support for sensors is a function that retrieves temperature and power information via sensors. Supported vendors include SynapSense, iButton, Sensatronics, and Arch Rock. In AEM V4.3, this sensor data can now be associated with Systems Director-managed resources. This provides a broader scope of energy information across systems within the data center, while including a view of facilities equipment.

In addition, power and cooling relationships can be configured to servers for all of the above PDU’s, sensors, and equipment discovered from the infrastructure management providers. This allows energy data and events to be associated with the servers that use them.

**AEM management functions (priced)**

*Power capping* is included in the set of optional chargeable (fee-based) management functions. It is designed to allow you to set a maximum energy level per system. If the system starts to consume more than the maximum level set, AEM is designed to throttle the processor to use less energy, which slows down the server. This feature is designed to come into play if it gets too warm in the data center. Setting the cap will ensure that the system will not use more than the cap value, thus allowing the user to allocate less power for that system.

New in AEM V4.3 is the ability to set a power limit on POWER7 servers using AC power. Previous versions of AEM only supported limiting DC power.

*Power saver mode* is included in the set of optional chargeable (fee-based) management functions. It is designed to allow you to manage your energy use as work activity shifts across various demands. Static power saving mode is enabled via an on/off switch, which you can schedule during times of low utilization, or a script can be written so that it can be switched automatically, based on processor utilization.

**Evaluation software**

If you download from the Web, you are offered the product to evaluate the AEM management functions for up to 60 days under the terms of the IBM International License Agreement for Evaluation of Programs (ILAE). During the evaluation period, an option to purchase a permanent license will be offered.

If a permanent license is purchased, a keyfile will be shipped on a CD-ROM to enable AEM management functions to remain active. When installing the keyfile, no changes are made to AEM and everything will continue to work as it did. If a permanent license is not purchased and installed, then the AEM management functions will be disabled when the evaluation period ends; however, AEM monitoring functions will continue to work after the evaluation period ends. Otherwise, the AEM management functions will be disabled.

The AEM keyfile is designed to operate with all release levels of AEM V4, and does not need to be reordered or reinstalled for customers migrating from a prior release of AEM V4 to AEM V4.3.

AEM monitor functions do not require the keyfile to remain enabled. AEM monitoring functions and the key-enabled management functions are licensed under the terms of the IBM International Program License Agreement (IPLA).

**IBM Systems Director V6.2 Information Center availability**

On or before June 25, 2010, the IBM Systems Director V6.2 Information Center Web site is planned to be updated with information pertinent to IBM Systems Director V6.2 and its associated plug-ins.

http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp
Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template containing details on the products accessibility compliance can be requested at


Product positioning

IBM Systems Director Active Energy Manager V4.3 is an IBM Systems Director V6.2 plug-in. It is an energy management solution building block that returns control of energy costs to the client. Active Energy Manager is a cornerstone of the IBM energy management framework.

Active Energy Manager advances the IBM initiative to deliver price/performance per square foot. This offering enables monitoring and management of power usage across systems equipment within the IT and facility infrastructures, which can decrease the cost of computing through improved power utilization and reduced labor cost. Active Energy Manager provides a broader scope of energy information across systems within the data center while including a view of facilities equipment.

By enabling you to meter energy use and trend data, AEM is designed to help reduce energy costs in the data center. AEM is also designed to complement and integrate with higher-level management software such as Tivoli. AEM interfaces with IBM Tivoli Monitoring for Energy Management.

AEM V4.3 focuses on multisystem resource management of energy across IBM servers and provides heterogeneous monitoring support for systems and IT facilities, enabling clients to manage actual energy consumption.

Reference information


For information on IBM Systems Director Active Energy Manager for X86, V4.3, refer to Software Announcement AG10-0110, dated April 13, 2010.

For information on IBM Systems Director Active Energy Manager for System z, V4.3, refer to Software Announcement AP10-0082, dated April 13, 2010.

For information on Enhancements to Power Systems Software™ refer to Software Announcement AP10-0005, dated February 09, 2010.

Availability of national languages

IBM Systems Director Active Energy Manager V4.3 includes support for the following languages.

<table>
<thead>
<tr>
<th>Description</th>
<th>Availability Date</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Systems Director</td>
<td>June 25, 2010</td>
<td>Brazilian Portuguese</td>
</tr>
<tr>
<td>Active Energy Manager V4.3</td>
<td>June 25, 2010</td>
<td>Chinese (simplified)</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>Chinese (traditional)</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>English</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>French</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>German</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>Italian</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>Japanese</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>Korean</td>
</tr>
<tr>
<td></td>
<td>June 25, 2010</td>
<td>Spanish</td>
</tr>
</tbody>
</table>
Program number

Program number VRM Program name

5765-AEP  4.3 IBM Systems Director Active Energy Manager for Power Systems
5660-PE3 SW Maintenance Registration/Renewal 1 Year
5661-PE3 SW Maintenance After License 1 Year
5662-PE3 SW Maintenance Registration 3 Year (2 Yr Uplift)
5663-PE3 SW Maintenance Renewal 3 Year
5664-PE3 SW Maintenance After License 3 Year

Note: All program numbers have been previously announced.

Product identification number

Program PID number Maintenance 1 year PID number Maintenance 3 year PID number
5765-AEP 5660-PE3 5662-PE3
5661-PE3 5663-PE3
5664-PE3

Offering Information

Product information is available via the Offering Information Web site

http://www.ibm.com/common/ssi

Publications

No licensed hardcopy publications are shipped with this program.

Publications are available in U.S. English versions from the IBM Systems Director Information Center.

The IBM Systems Director Information Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access. The IBM Systems Director Information Center is at

http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp

To find information, you can search, browse the contents, follow links from one topic to related topics, and print the topics you want to read offline.

Technical information

Specified operating environment

Hardware requirements

IBM Systems Director Active Energy Manager is dependent on IBM Systems Director and has the same hardware requirements as the IBM Systems Director V6.2. These hardware requirements are available from the software announcement for IBM Systems Director V6.2 and from the IBM Systems Director Information Center at

IBM DPI® PDU+s may require firmware updates. The firmware version can be found on the Active Energy Manager Web site


**Software requirements**

AEM V4.3 is dependent on IBM Systems Director and has the same software requirements as the IBM Systems Director V6.2 server.

AEM V4.3 requires:

- IBM Systems Director for Power Systems, V6.2 and updates required for IBM Systems Director Active Energy Manager V4.3
- One of the following operating systems:
  - AIX V5.3 with Technology Level 06 Service Pack 4, or later
  - AIX V6.1 with Technology Level 01 Service Pack 1, or later
  - Red Hat Enterprise Linux AS 4 for POWER
  - Red Hat Enterprise Linux AP 5 for POWER
  - Novell SUSE Linux Enterprise Server 10 for POWER
  - Novell SUSE Linux Enterprise Server 11 for POWER

More detailed software requirements are available from documents accompanying the program and from the IBM Systems Director V6.2 Information Center at

http://publib.boulder.ibm.com/infocenter/director/v6r2x/topic/com.ibm.director.plan.helps.doc/fqm0_r_operating_system_and_software_requirements.html

The program’s specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

**Limitations**

AEM can monitor but not manage power data (that is, power savings and power capping) on servers that do not have native support.

Platform or operating-system-specific capabilities:

- Power Systems servers are supported for monitoring, power saving, and capping.
- System z servers are supported for monitoring functions only.
- System x servers are supported for monitoring and capping but not power saving.
- Storage devices are enabled for monitoring only when utilizing PDUs.

**Performance considerations**

Performance considerations are available from the IBM Systems Director Information Center

http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp
Planning information

Refer to the planning Web site for additional information


Packaging

The IBM Systems Director Active Energy Manager package contains one CD-ROM that includes product installation documentation and files.

Your Proof of Entitlement for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from IBM or its authorized reseller from whom you acquired the program, provided that it states the license charge unit (the characteristics of intended use of the program; for example, number of processors, number of users) and quantity acquired.

Information about how you may obtain program services will be provided by the party (either IBM or its authorized reseller) from whom you acquired the program.

AEM will be available on or before June 25, 2010, for electronic download from


This program, when downloaded from a Web site, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

AEM V4.3 installed on systems with Linux uses the security and auditability features of the Linux operating system. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

Charge metric

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID number</th>
<th>Charge metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Systems Director Active Energy Manager V4.3</td>
<td>5765-AEP</td>
<td>Per processor</td>
</tr>
<tr>
<td>SW Maintenance Regist/Renewal 1 Year</td>
<td>5660-PE3</td>
<td>Per processor</td>
</tr>
<tr>
<td>SW Maintenance After License 1 Year</td>
<td>5661-PE3</td>
<td>Per processor</td>
</tr>
<tr>
<td>SW Maintenance Registration 3 Year</td>
<td>5662-PE3</td>
<td>Per processor</td>
</tr>
<tr>
<td>SW Maintenance Renewal 3 Year</td>
<td>5663-PE3</td>
<td>Per processor</td>
</tr>
<tr>
<td>SW Maintenance After License 3 Year</td>
<td>5664-PE3</td>
<td>Per processor</td>
</tr>
</tbody>
</table>

Processor

Processor is a unit of measure by which the program can be licensed. Processor (commonly called a processor core or CPU) is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor.

A Proof of Entitlement (PoE) must be acquired for all activated processor cores available for use on the server. In addition to the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the processor cores managed by the program.
IBM Systems Director Active Energy Manager uses a per processor charging metric. A license is required for each processor on each server being managed by AEM, based on the size of the server. As of this announcement, servers are categorized as small, medium, or large, based on the following categories.

- **Small server**
  - IBM Power Systems, System p® models in Processor Groups C5, D5, and E5, or the Power Systems small server tier
  - IBM Power Systems, System i® models in Processor Groups P05, P10, and P20, or the Power Systems small server tier

- **Medium server**
  - IBM Power Systems, System p models in Processor Group F5, or the Power Systems medium server tier
  - IBM Power Systems, System i models in Processor Groups P30 and P40, or the Power Systems medium server tier

- **Large server**
  - IBM Power Systems, System p models in Processor Groups G5 and H5, or the Power Systems large server tier
  - IBM Power Systems, System i models in Processor Groups P50 and P60, or the Power Systems large server tier

AEM requires a keyfile to make the management component of the product operational after the 60-day evaluation period. This keyfile is sent on a CD-ROM after placing an order for the 5765-AEP product. This software license includes one year of Software Maintenance. AEM monitor functions do not require the keyfile. Download of AEM V4.3 is required before the keyfile can be applied.

Orders may be placed beginning with configurator availability.

### 5765-AEP IBM Systems Director Active Energy Manager V4.3

<table>
<thead>
<tr>
<th>Description</th>
<th>OTC feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per processor Small with 1 year SW Maint</td>
<td>CDGG</td>
</tr>
<tr>
<td>Per processor Small P7 with 1 year SW Maint</td>
<td>CDGH</td>
</tr>
<tr>
<td>Per processor Medium with 1 year SW Maint</td>
<td>CDGJ</td>
</tr>
<tr>
<td>Per processor Medium P7 with 1 year SW Maint</td>
<td>CDGK</td>
</tr>
<tr>
<td>Per processor Large with 1 year SW Maint</td>
<td>CDGL</td>
</tr>
<tr>
<td>Per processor Large P7 with 1 year SW Maint</td>
<td>CDGM</td>
</tr>
</tbody>
</table>

### Software Maintenance

IBM will provide Software Maintenance (SWMA), which may also be referred to as Software Subscription and Technical Support, for the free monitoring functions of Active Energy Manager if you have acquired an entitlement to receive Software Maintenance for IBM Systems Director V6.2 or Active Energy Manager V4.3.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

SWMA for Active Energy Manager may be obtained by ordering the following previously announced and priced program and feature numbers:

<table>
<thead>
<tr>
<th>Feature description</th>
<th>Program number</th>
<th>OTC feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW Maintenance Regist/Renewal 1 Year</td>
<td>5660-PE3</td>
<td>1535</td>
</tr>
<tr>
<td>Per processor Small with 1 year SW Maint Reg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Per processor Small P7 with 1 year SW Maint Reg  1536
Per processor Medium with 1 year SW Maint Reg  1537
Per processor Medium P7 with 1 year SW Maint Reg  1538
Per processor Large with 1 year SW Maint Reg  1539
Per processor Large P7 with 1 year SW Maint Reg  1540
Per processor Small with 1 year SW Maint Ren  A1UE
Per processor Small P7 with 1 year SW Maint Ren  A1UF
Per processor Medium with 1 year SW Maint Ren  A1UG
Per processor Medium P7 with 1 year SW Maint Ren  A1UH
Per processor Large with 1 year SW Maint Ren  A1UJ
Per processor Large P7 with 1 year SW Maint Ren  A1UK

**SW Maintenance After License 1 Year** 5661-PE3
Per processor Small with 1 year SW Maint AL  0533
Per processor Small P7 with 1 year SW Maint AL  0534
Per processor Medium with 1 year SW Maint AL  0535
Per processor Medium P7 with 1 year SW Maint AL  0536
Per processor Large with 1 year SW Maint AL  0537
Per processor Large P7 with 1 year SW Maint AL  0538

**SW Maintenance Registration 3 Year** 5662-PE3
Per processor Small with 3 year SW Maint Reg  0794
Per processor Small P7 with 3 year SW Maint Reg  0795
Per processor Medium with 3 year SW Maint Reg  0796
Per processor Medium P7 with 3 year SW Maint Reg  0797
Per processor Large with 3 year SW Maint Reg  0798
Per processor Large P7 with 3 year SW Maint Reg  0799

**SW Maintenance Registration 3 Year** 5663-PE3
Per processor Small with 3 year SW Maint Ren  A0VF
Per processor Small P7 with 3 year SW Maint Ren  A0VG
Per processor Medium with 3 year SW Maint Ren  A0VH
Per processor Medium P7 with 3 year SW Maint Ren  A0VJ
Per processor Large with 3 year SW Maint Ren  A0VK
Per processor Large P7 with 3 year SW Maint Ren  A0VL

**SW Maintenance After License 3 Year** 5664-PE3
Per processor Small with 3 year SW Maint AL  A1TA
Per processor Small P7 with 3 year SW Maint AL  A1TB
Per processor Medium with 3 year SW Maint AL  A1TC
Per processor Medium P7 with 3 year SW Maint AL  A1TD
Per processor Large with 3 year SW Maint AL  A1TE
Per processor Large P7 with 3 year SW Maint AL  A1TF

**System Program Order (SPO):** An order for SPO 5692-A5L, 5692-A6P, or 5692-LOP is mandatory for delivery of program media or publications. The individual licensed program orders are for registration and billing purposes only. No physical deliveries occur as a result of those orders.

The System Program Order must also contain the following features to deliver a machine-readable copy of the product using the currently available media.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program/Function name</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5692-A5L</td>
<td>IBM Systems Director Active Energy Manager V4.3</td>
<td>2211</td>
</tr>
<tr>
<td>5692-A6P</td>
<td>IBM Systems Director Active Energy Manager V4.3</td>
<td>2211</td>
</tr>
<tr>
<td>5692-LOP</td>
<td>IBM Systems Director Active Energy Manager V4.3</td>
<td>1488</td>
</tr>
</tbody>
</table>

**Terms and conditions**

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.
**Licensing**

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

**Agreement for Acquisition of Software Maintenance**

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support (also referred to as Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Maintenance with the initial license acquisition of each program acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

Additional Software Maintenance terms and conditions:

The scope of Active Energy Manager V4.3 Software Maintenance also includes support for the IBM Systems Director V6.2 management server on which the AEM application is running. With this extended coverage, clients gain greater value from their AEM software environment and are assured that they have support for AEM and the prerequisite IBM Systems Director management server environment. This offering does not include support for IBM Systems Director V6.2 on servers being managed by Active Energy Manager. Software Maintenance for IBM Systems Director is available for IBM Power Systems via 5765-DRP.

**License Information form number**

GC52-1262

The program’s License Information will be available for review on the IBM Software License Agreement Web site


**Limited warranty applies**

Yes

**Limited warranty**

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

**Money-back guarantee**
If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

**Authorization for use on home/portable computer**
You may not copy and use this program on another computer without paying additional license fees.

**Volume orders (IVO)**
Yes. Contact your IBM representative.

**IBM International Passport Advantage Agreement**

**Passport Advantage applies**
No

**Software Subscription and Support (Software Maintenance) applies**
Yes

All distributed software licenses include Software Maintenance (Software Subscription and Technical Support) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Maintenance is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

http://www.ibm.com/support/handbook/

Software Maintenance does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

**System i Software Maintenance applies**
No

**Variable charges apply**
No
**Educational allowance available**

15% to qualified educational institution customers.

---

**IBM Electronic Services**

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

http://www.ibm.com/support/electronic

---

**Prices**

For all local charges, contact your IBM representative.

The licensed program (5765-AEP) and associated Software Maintenance (566x-PE3) have been previously announced and priced.

---

**IBM Global Financing**

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

http://www.ibm.com/financing

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, permits accelerated implementation of economically attractive new technologies, offers
payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified customers.

For more financing information, visit

http://www.ibm.com/financing

### AP distribution

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Announced</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP IOT</td>
<td></td>
</tr>
<tr>
<td>ASEAN*</td>
<td>Yes</td>
</tr>
<tr>
<td>India/South Asia**</td>
<td>Yes</td>
</tr>
<tr>
<td>Australia</td>
<td>Yes</td>
</tr>
<tr>
<td>People's Republic of China</td>
<td>Yes</td>
</tr>
<tr>
<td>Hong Kong S.A.R of the PRC</td>
<td>Yes</td>
</tr>
<tr>
<td>Macao S.A.R of the PRC</td>
<td>Yes</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan IOT</td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Brunei Darussalam, Indonesia, Cambodia, Lao People's Democratic Republic, Malaysia, Philippines, Singapore, Thailand, and Vietnam

** Bangladesh, Bhutan, India, Sri Lanka, Maldives, Nepal, and Afghanistan

### Trademarks

IBM Systems Director Active Energy Manager, POWER7, Power Systems, Smarter Planet, Power Systems Software and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, AIX, System x, System z10, Tivoli, Dynamic Infrastructure, POWER, BladeCenter, System z, Power, DPI, System p, System i and Passport Advantage are registered trademarks of IBM Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

### Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Reference to other products in this announcement does not necessarily imply those products are announced, or intend to be announced, in your country. Additional terms of use are located at


For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

http://www.ibm.com/planetwide/