



IBM AIX and Power Systems Software offer new enhancements

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Overview

AIX® Express® Edition is a new IBM® offering that includes the AIX 6 operating system, an open standards-based UNIX® operating system that provides the enterprise-class information technology infrastructure for thousands of clients around the world.

AIX Express Edition is designed to deliver AIX functionality at a lower price point for workloads such as the consolidation of smaller workloads on a larger server or for workloads running on smaller systems that do not need the vertical scalability of AIX Standard Edition. AIX Express Edition is limited to a maximum of four processor cores in a partition with a maximum of 8 Gb of memory per processor core. Clients can run multiple partitions with AIX Express Edition in a single server as long as each partition is running no more than four processor cores. Clients can mix partitions with AIX Express Edition, AIX Standard Edition, and AIX Enterprise Edition in the same server.

AIX 6 Express Edition includes all features of AIX 6 Standard Edition:

- IBM PowerVM™ Workload Partitions Manager™ for AIX -- software-based virtualization
- 64-bit kernel for higher scalability and performance
- Dynamic logical partitioning and Micro-Partitioning™ support:
 - Automated load balancing
 - Online addition or removal of processors, memory, and I/O resources
- Support for dedicated and shared processor LPAR groups
- Trusted AIX: Multi-level, compartmentalized security
- Integrated Role Based Access Control
- Encrypting JFS2 file system
- Kernel exploitation of storage keys for greater reliability
- Concurrent AIX kernel updates, which can reduce the need for planned outages
- Dynamic tracing with probevue
- Robust journaled file system and Logical Volume Manager (LVM) software, including integrated file system snapshot
- Tools for managing your systems environment -- System Management Interface Tool (SMIT) and the IBM Systems Director Console for AIX

In addition to AIX Express Edition, IBM is announcing enhancements to PowerVM Virtualization.

PowerVM 2.1.3 enhancements

- Includes support for N-port ID virtualization (NPIV) on Fibre Channel over converged Enhanced Ethernet (FCoCEE)
- Supports more than 128 partitions with Active Memory™ Sharing
- Supports the use of the AIX Run Time Expert to provide profile-based management of VIOS performance and other configuration aspects

IBM PowerVM Lx86 simplifies the migration of Linux® x86 applications to Power® servers, enabling customers to realize the energy and administration savings of consolidation. With this announcement, PowerVM Lx86 V1.4 adds support for the new IBM POWER7™ processor-based servers as well as continuous performance improvements. Also, PowerVM Lx86 V1.4 now enables Red Hat Enterprise Linux 5.5 x86 applications to run on Power alongside AIX, i, and Linux applications. PowerVM Lx86 V1.4 is available at no additional charge to all entitled PowerVM customers.

For PowerVM Lx86, refer to Software Announcement [ZP08-0101](#), dated January 29, 2008.

For more information, visit

<http://www.ibm.com/systems/power/software/virtualization/editions/lx86/index.html>

IBM is also announcing upgrades in the ordering information for IBM Management Edition for AIX V1 to IBM Systems Director Enterprise Edition V6 in this announcement.

Planned availability date

- April 23, 2010, for AIX Express Edition
- May 11, 2010, for IBM Management Edition for AIX upgrades to IBM Systems Director Enterprise Edition

Description

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Statement of direction

IBM plans to deliver the next version of the AIX operating system, AIX 7, and new releases of PowerVM and PowerHA™ SystemMirror for AIX. These new offerings are designed to help companies reduce cost, improve service, and lower risk of deploying and migrating UNIX applications to Power Systems™. IBM intends to offer early access to AIX 7 via an Open Beta program and access to the new release of PowerHA SystemMirror via a Beta program.

AIX will be enhanced with cluster-aware technologies that are designed to integrate with the availability management capabilities of PowerHA SystemMirror for AIX.

AIX will support enhancements for runtime management and regulatory compliance.

PowerHA SystemMirror for AIX will offer an option to plug into IBM Systems Director to provide simplified platform and availability management from a common interface.

PowerVM is planned to include new storage virtualization designed to simplify the provisioning and management of virtual server environments.

PowerVM is planned to include significant virtual networking enhancements, including dynamic VLAN support.

All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. Any reliance on these Statements of Direction is at the relying party's sole risk and will not create liability or obligation for IBM.

The information on the new product is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information on the new product is for informational purposes only and may not be incorporated into any contract. The information on the new product is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of any features or functionality described for our products remains at our sole discretion.

All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.

Program number

Program number	VRM	Program name
5765-G90	6.1	AIX Express Edition
5771-G90	1.1	AIX Express Edition SWMA 1 yr
5773-G90	1.1	AIX Express Edition SWMA 3 yr
5771-G91	1.1	AIX Express Edition After License Charge

Product identification number

Program number	VRM	Program name
5765-G90	6.1	AIX Express Edition
5771-G90	1.1	AIX Express Edition SWMA 1 yr
5773-G90	1.1	AIX Express Edition SWMA 3 yr
5771-G91	1.1	AIX Express Edition After License Charge

Offering Information

Product information is available via the Offering Information Web site

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

Publications

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

For IBM AIX Express Edition:

Hardware requirements

IBM systems that run on the IBM POWER5™, POWER6™, or POWER7 processors, including the IBM Power Systems, System p®, System i®, System p5®, eServer™ p5, and eServer pSeries® server product lines.

Software requirements

Systems operating on AIX 6.1 are supported only when used within the system operating environments described in the appropriate hardware announcements and when used within the specified operating environment. When systems operating on AIX 6.1 are used with other software or software in later announcements, other limitations may be included.

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

AIX Express Edition is limited to a maximum of four processor cores in a partition with a maximum of 8 Gb of memory per processor core. Clients can run multiple partitions with AIX Express Edition in a single server as long as each partition is running no more than four processor cores. Clients can mix partitions with AIX Express Edition, AIX Standard Edition, and AIX Enterprise Edition in the same server.

Planning information

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

Definition of server category:

- Small server
 - IBM Power Systems, System p models in Processor Groups C5, D5, and E5
 - IBM Power Systems, System i models in Processor Groups P05, P10, and P20
Medium category
- Medium server
 - IBM Power Systems, System p models in Processor Group F5

- IBM Power Systems, System i models in Processor Groups P30 and P40
- Large server
 - IBM Power Systems, System p models in Processor Groups G5 and H5
 - IBM Power Systems, System i models in Processor Groups P50 and P60

Note: For P7 tier information, refer to the associated POWER7 announcements.

Consult your IBM representative.

Charge metric

Program name	Part number or PID number	Charge metric
AIX Express	5765-G90	Per Processor on Small, Medium, or Large Server

Processor

A processor (commonly called a CPU or core) is the unit of measure by which this program is licensed. It 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 obtained for the appropriate number of processors based on the level of all processor cores activated and available for use by the program on the server.

IBM announces AIX Express Edition License, SWMA PIDs, and features to support this new offering.

IBM AIX Express Edition V6.1 (5765-G90)

Description	OTC feature number

Per Processor - Small	V7NTBG
Per Processor - Small POWER7	T7NUA5
Per Processor - Medium	V7NVBG
Upgrade small to medium	XZ75BG
Per Processor - Medium POWER7	T7NWA5
Upgrade small POWER7 to Medium POWER7	XZ779B
Upgrade small to Medium POWER7	XZ769B
Per Processor - Large	V7NXBG
Upgrade small to large	XZ78BG
Upgrade medium to large	XZ79BG
Per Processor - Large POWER7	T7NYA5
Upgrade small POWER7 to large POWER7	XZ7B9B
Upgrade medium POWER7 to large POWER7	XZ7D9B
Upgrade small to large POWER7	XZ7A9B
Upgrade medium to large POWER7	XZ7C9B

Software Maintenance

This software license offers Software Maintenance, previously referred to as Software Subscription and Technical Support.

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.

Note: Software Maintenance renewals and out-year contracts for AIX Express Edition via IBM Global Services contracts will be available for ordering on April 27, 2010.

Feature description	Program number	OTC feature number
SW Maintenance Registration/Renewal 1 Year	5771-G90	
Per Processor Small 1 Year Regist		Z1FRJA
Per Processor Small 1 Year Renewal		B1FRCH
Per Proc Small 1 Year Reg POWER7		T1FSA6
Per Proc Small 1 Year Renewal POWER7		T1FSA8
Per Processor Medium 1 Year Regist		Z1FTJA
Per Processor Medium 1 Year Renewal		B1FTCH
Per Proc Medium 1 Year Reg POWER7		T1FUA6
Per Proc Medium 1 Year Renewal POWER7		T1FUA8
Per Processor Large 1 Year Regist		Z1FVJA
Per Processor Large 1 Year Renewal		B1FVCH
Per Proc Large 1 Year Reg POWER7		T1FWA6
Per Proc Large 1 Year Renewal POWER7		T1FWA8
SW Maintenance After License Charge	5771-G91	
Per Processor Small After License Charge		M1FYM1
Per Proc Small After License Charge POWER7		T1FZC0
Per Processor Medium After License Charge		M1F0M1
Per Proc Medium After License Charge POWER7		T1F1C0
Per Processor Large After License Charge		M1F2M1
Per Proc Large After License Charge POWER7		T1F3C0
SW Maintenance Regist/Renewal Support 3 Year	5773-G90	
Per Processor Small 3 Year Registration		U0Z1C5
Per Processor Small 3 Year Renewal Suppt		U0Z1C6
Per Proc Small 3 Year Registration POWER7		T0Z2C4
Per Proc Small 3 Year Renewal Suppt POWER7		T0Z2C6
Per Processor Medium 3 Year Registration		U0Z3C5
Per Processor Medium 3 Year Renewal Suppt		U0Z3C6
Per Proc Medium 3 Year Registration POWER7		T0Z4C4
Per Proc Medium 3 Year Renewal Suppt POWER7		T0Z4C6
Per Processor Large 3 Year Registration		U0Z5C5
Per Processor Large 3 Year Renewal Suppt		U0Z5C6
Per Proc Large 3 Year Registration POWER7		T0Z6C4
Per Proc Large 3 Year Renewal Suppt POWER7		T0Z6C6

Orders may be placed beginning with configurator availability.

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

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.

Expedite feature for licensed programs and SWMA programs:

Program number	Description	Feature number
5765-G90	AIX Express Edition	3445
5771-G90	AIX Express Edition SWMA 1 yr	3445
5773-G90	AIX Express Edition SWMA 3 yr	3445
5771-G91	AIX Express Edition ALC	3445

System Program Order (SPO): An order for SPO 5692-A6P is mandatory for shipments of program distribution. The individual licensed program orders are for registration and billing purposes only. No shipment occurs under these orders.

The supply for AIX Express Edition is already set up on the SPO. AIX Express will use the same deliverables as AIX Standard Edition.

IBM is releasing upgrade features to support IBM Management Edition for AIX upgrades to IBM Systems Director Enterprise Edition. The eConfig and availability

support date will be different for these features and is not releasing on the same schedule as AIX Express Edition that is releasing in this announcement letter.

e-Config support and availability May 11, 2010

Description	OTC feature number
Upgrade from 5765-AME to 5765-EEP	
Upgrade from 5765-AME (A7E3C8, B7E4AE, A7E5K2) to Enterprise Small	XZ80C1
Upgrade from 5765-AME (A7E3C8, B7E4AE, A7E5K2) to Enterprise Small P7	UZ81EF
Upgrade from 5765-AME (A7E6K3) to Enterprise Medium	XZ82C1
Upgrade from 5765-AME (A7E6K3) to Enterprise Medium P7	UZ83EF
Upgrade from 5765-AME (D7E7AA, A7E8K4) to Enterprise Large	XZ84C1
Upgrade from 5765-AME (D7E7AA, A7E8K4) to Enterprise Large P7	UZ85EF

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. The initial period of Software Subscription and Support 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.

License Information form number

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

<http://www.ibm.com/software/sla/sladb.nsf>

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

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

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.

Other terms: Authorized Use

You are only authorized to use the programs to the same extent as provided in the Proofs of Entitlement for the AIX operating system, and on additional temporary processors for which you have rightfully acquired, from IBM or its authorized reseller, the right to use on a temporary basis.

IBM customers are entitled to use the AIX program in accordance with the IBM license agreement. For example:

AIX Express Edition

- License entitlements for AIX Express Edition cannot exceed a maximum of four processors per logical partition (LPAR) and a maximum of 8 GB per processor of memory (a maximum of four processors of processing capacity and 32 GB of memory per LPAR).

AIX Standard Edition

- License entitlements for AIX Standard Edition cannot exceed a maximum of 64 processors per LPAR.

AIX Enterprise Edition

- License entitlements for AIX Enterprise Edition cannot exceed a maximum of 64 processors per LPAR.

Clients may mix partitions running the three editions of the AIX operating system in the same physical server as long as each partition running the AIX operating system meets the licensing requirements of that AIX Edition and the client has sufficient license entitlements for all processors running the AIX operating system.

Volume orders (IVO)

Yes. Contact your IBM representative.

Passport Advantage applies

No

Software Subscription and Support applies

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) 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 Subscription and Support 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 Subscription and Support 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.

For more information about the Passport Advantage Agreement, visit the Passport Advantage Web site at

<http://www.ibm.com/software/passportadvantage>

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. When ordering through the program number process, a 15% education allowance applies to qualified education institution customers.

Education Software Allowance Program applies when ordering through the program number process.

ESAP available

Yes, to qualified 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.

IBM announces AIX Express Edition License, SWMA PIDs, and features to support this new offering.

Software Maintenance

This software license offers Software Maintenance, previously referred to as Software Subscription and Technical Support.

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IBM is releasing upgrade features to support IBM Management Edition for AIX upgrades to IBM Systems Director Enterprise Edition. The eConfig and availability support date will be different for these features and is not releasing on the same schedule as AIX Express Edition that is releasing in this RFA.

e-Config support and availability May 11, 2010

Announcement countries

All European, Middle Eastern, and African countries.

Trademarks

PowerVM, Workload Partitions Manager, Micro-Partitioning, Active Memory, POWER7, PowerHA, Power Systems, POWER5, POWER6, eServer and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

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UNIX is a registered trademark of The Open Group in the United States and other countries.

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

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<http://www.ibm.com/legal/us/en/>

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/>

Corrections

(Corrected on July 1, 2010)

In the Overview, Live Application Mobility with the IBM PowerVM Workload Partitions Manager for AIX (5765-G83) was removed as a feature of AIX 6 Express Edition.