IBM AIX offers new enhancements with improved performance, scalability, availability, security, and manageability

Table of contents

| 1 | Overview |
| 2 | Planned availability date |
| 3 | Description |
| 4 | Program number |
| 5 | Publications |
| 6 | Technical information |
| 7 | Ordering information |
| 8 | Terms and conditions |
| 9 | Prices |
| 9 | Announcement countries |

At a glance

IBM® is enhancing AIX® 6 and AIX 7, the IBM strategic UNIX™ operating system for mission-critical, core business applications, with the following:

- AIX Enterprise Edition will now include the new PowerVC offering.
- Support for the IBM POWER7+™ processor-based systems.
- Enhanced live system backup support.
- Enhanced LDAP support with users and groups.

Overview

The AIX operating system is an open standards-based UNIX operating system that provides the enterprise-class IT infrastructure for thousands of clients around the world. IBM is making enhancements to AIX 6 and AIX 7 that will include significant new capabilities, including support for the POWER7+ processor-based servers, performance enhancements, security improvements, and other usability capabilities.

Planned availability date

November 29, 2013

Availability of programs with encryption algorithm in France is subject to French government approval.

Description

The AIX operating system has been enhanced to provide the following new capabilities in AIX 7.1 Technology Level 3 and AIX 6.1 Technology Level 9:

- Hardware support: Support and exploitation for the POWER7+ processor-based systems that provide better performance, better scalability, and better resiliency.
- AIX Enterprise Edition will now include the new PowerVC offering. PowerVC can help improve enterprise virtualization management, reduce capital expense and power consumption, and increase agility and execution to respond to changing business requirements.
• Enhanced live system backup support provides a consistent backup even in the presence of a workload that is creating and deleting temporary files.
• Enhanced LDAP support with users and groups:
  – A local system-defined user can be a member of an LDAP-based group.
  – An LDAP-based user can be a member of a local system-defined group.
• Improved AIX WPAR update management (AIX 7.1 only) can roll back to a previous version of the WPAR.
• Enhanced AIX versioned WPAR lifecycle management (AIX 7.1 only) allows existing AIX 5.2 or 5.3 version WPARs to be upgraded to AIX 7 WPARs.
• Display of current ODM attribute settings: New lsattr P option to display applied attributes that may not yet be in effect on the running system.
• Enhanced to provide link status reporting for virtual Ethernet adapter. Enablement is required in virtual Ethernet adapter to receive link status notification. VIOS 2.2.3.0 is a prerequisite for this capability.

Reference information

Refer to Software Announcement ZG13-0074, dated April 09, 2013.

Refer to Hardware Announcement ZG13-0302, dated October 07, 2013.

Refer to Software Announcement ZP13-0522, dated October 07, 2013.

Program number

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5765-G90</td>
<td>6.1.x</td>
<td>AIX 6 Express® Edition</td>
</tr>
<tr>
<td>5765-G62</td>
<td>6.1.x</td>
<td>AIX 6 Standard Edition</td>
</tr>
<tr>
<td>5765-AEZ</td>
<td>6.1.x</td>
<td>AIX 6 Enterprise Edition</td>
</tr>
<tr>
<td>5765-G97</td>
<td>7.1.x</td>
<td>AIX 7 Express Edition</td>
</tr>
<tr>
<td>5765-G98</td>
<td>7.1.x</td>
<td>AIX 7 Standard Edition</td>
</tr>
<tr>
<td>5765-G99</td>
<td>7.1.x</td>
<td>AIX 7 Enterprise Edition</td>
</tr>
</tbody>
</table>

Note: These PIDs are announced and are listed here for reference only.

Product identification number

<table>
<thead>
<tr>
<th>Program PID number</th>
<th>Maintenance 1-year PID number</th>
<th>Maintenance 3-year PID number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5765-G90</td>
<td>5771-G90</td>
<td>5773-G90 1</td>
</tr>
<tr>
<td>5765-G62</td>
<td>5771-SWM</td>
<td>5773-SM3 1</td>
</tr>
<tr>
<td>5765-AEZ</td>
<td>5771-AEZ</td>
<td>5773-AEZ 1</td>
</tr>
<tr>
<td>5765-G97</td>
<td>5771-G90</td>
<td>5773-G90 1</td>
</tr>
<tr>
<td>5765-G98</td>
<td>5771-SWM</td>
<td>5773-SM3 1</td>
</tr>
<tr>
<td>5765-G99</td>
<td>5771-AEZ</td>
<td>5773-AEZ 1</td>
</tr>
<tr>
<td>5765-PVL</td>
<td>5771-PVL</td>
<td>5773-PVL 2</td>
</tr>
</tbody>
</table>

1 These PIDs are announced and are listed here for reference only.

2 This PID is announced and listed here for data load purposes only.

Offering Information

Product information is available via the Offering Information website
Publications

No publications are shipped with this program.

Technical information

Specified operating environment

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 and AIX 7.1 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 and AIX 7.1 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.

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement, at no additional charge.

- Read about the Electronic Support portfolio of tools
  http://ibm.com/electronicsupport
- Access the IBM Support Portal
  http://ibm.com/support
- Access the online Service Request tool
  http://ibm.com/support/servicerequest

Planning information

Media charge

The media charge will be increased on Power® software orders with physical delivery of media or publications. The billing charge will apply to both initial and upgrade software orders. No media charge will be billed to customers choosing Electronic Software Delivery (ESD).
The physical media charge for Power software will appear under the following programs:

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>5692-A6P</td>
<td>FC 1100</td>
</tr>
<tr>
<td>5761-SS1</td>
<td>FC 1348, 1349, Z0DT40, Z0DU40</td>
</tr>
<tr>
<td>5770-SS1</td>
<td>FC 1383, 1384, V0C0BG, V0CZBG</td>
</tr>
<tr>
<td>5761-NLV</td>
<td>FC 0491, 0492, V0ASBG, V0ATBG</td>
</tr>
<tr>
<td>5770-NLV</td>
<td>FC 0148, 0147, V0AFBG, V0AEBG</td>
</tr>
</tbody>
</table>

**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**

Consult your IBM representative.

**Note:** There is no new ordering information for the existing License PIDs in this announcement.

**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.

Machine-readable materials are only available on CD-ROM. To receive shipment of machine-readable materials, the order needs to include SPO 5692-A6P for AIX. The individual licensed program order (for example, 5765-G99) must still be ordered but will be for registration and billing purposes only and will not result in shipment of materials.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program/Function name</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5692-A6P</td>
<td>ITM V6.3.2 for AIX EE</td>
<td>2309</td>
</tr>
<tr>
<td>5692-A6P</td>
<td>AIX Enterprise edition V6 specify code</td>
<td>2501</td>
</tr>
<tr>
<td>5692-A6P</td>
<td>AIX Enterprise edition V7 specify code</td>
<td>2502</td>
</tr>
</tbody>
</table>

**Charge metric**

<table>
<thead>
<tr>
<th>Program name</th>
<th>Part number or PID number</th>
<th>Charge metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX 6 Express Edition</td>
<td>5765-G90</td>
<td>Per Processor small, medium</td>
</tr>
<tr>
<td>AIX 6 Standard Edition</td>
<td>5765-G62</td>
<td></td>
</tr>
<tr>
<td>AIX 6 Enterprise Edition</td>
<td>5765-AE2</td>
<td></td>
</tr>
<tr>
<td>AIX 7 Express Edition</td>
<td>5765-G97</td>
<td></td>
</tr>
<tr>
<td>AIX 7 Standard Edition</td>
<td>5765-G98</td>
<td></td>
</tr>
<tr>
<td>AIX 7 Enterprise Edition</td>
<td>5765-G99</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The PIDs above are announced and are listed here for reference only.
The following new features are being added to existing PIDs. These features are only used when a certain hardware feature on a Power server classified as Medium or Large Server has been selected. These features have no relevance to this announcement being used to announce/release the features. For details on the hardware offering that drives the features below, refer to Hardware Announcement ZG13-0302, dated October 07, 2013.

5765-PVL  IBM PowerVM® for Linux™ V2.2

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per processor - Medium IFL</td>
<td>V8FOBG</td>
</tr>
<tr>
<td>Per processor - Large IFL</td>
<td>V8FZBG</td>
</tr>
</tbody>
</table>

5771-PVL  Software Maintenance Renewal 1 Year

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per processor core on Medium renewal 1yr IFL</td>
<td>U1N3C3</td>
</tr>
<tr>
<td>Per processor core on Large renewal 1yr IFL</td>
<td>U1N2C3</td>
</tr>
</tbody>
</table>

5773-PVL  Software Maintenance Registration/Renewal 3 Year

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Processor Core 3Yr Registration Medium IFL</td>
<td>U1GZC5</td>
</tr>
<tr>
<td>Per Processor Core 3Yr Renewal Medium IFL</td>
<td>U1G0C6</td>
</tr>
<tr>
<td>Per Processor Core 3Yr Registration Large IFL</td>
<td>U1GWCS</td>
</tr>
<tr>
<td>Per Processor Core 3Yr Renewal Large IFL</td>
<td>U1GXC6</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) 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 Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as
as 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.

**License Information form number**

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


**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.

**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 website at

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

**System i Software Maintenance applies**

No

**Variable charges apply**

Yes

**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.

**Statement of good security practices**

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

**IBM Electronic Services**

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company’s strategic business initiatives, save time, and spend less effort managing day-to-day
IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa_main", and select "Configure Electronic Service Agent." In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

**Increased uptime:** The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

**Security:** The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

**More accurate reporting:** Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

**Customized support:** Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support website at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been
collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

### Prices

For all local charges, contact your IBM representative.

**Note:** Prices for the existing offerings in this announcement remain unchanged.

### Announcement countries

All European, Middle Eastern, and African countries.

### Trademarks

POWER7+, Power Systems, eServer and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, AIX, Express, POWER6, POWER7, System p, System i, System p5, pSeries, Power, Global Technology Services, PowerVM and Passport Advantage are registered trademarks of IBM Corporation in the United States, other countries, or both.

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.

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/