IBM Bluemix Local System and IBM PureApplication System firmware V2.2.4 deliver capabilities for license tracking and VMware virtual machine deployments

Table of contents
1 Overview 4 Publications
1 Key prerequisites 5 Technical information
2 Planned availability date 5 Ordering information
2 Description 7 Terms and conditions
3 Statement of general direction 9 Prices
4 Program number

Overview

IBM(R) Bluemix(R) Local System V2.2.4 and IBM PureApplication(R) System firmware V2.2.4 enable dramatic time reduction for central IT with enhancements to key features:

- License tracking is updated to support both license and subcapacity license tracking with IBM License Metric Tool.
- Backup and restore capabilities can be leveraged by using IBM Tivoli(TM) Storage Manager for Virtual Environments.
- Open Virtualization Format (OVF), Open Virtualization Application (OVA), and Open Virtualization Appliance (OVA) virtualization file formats are supported for user-managed, virtual machine deployments with VMware vCenter, delivered in Version 2.2.3.

Enhancements to existing features

- Docker containers
- IBM Tivoli Monitoring
- Java(TM)
- IBM WebSphere(TM) Application Server
- Base operating system images for Red Hat Enterprise Linux(TM) and IBM AIX(R)
- Resiliency for pattern infrastructure
- Resiliency for Power(R) VM migrations

This release is available to all new and existing clients of PureApplication System W1500, W1700, W2500, W2700, and W3700 appliances and Bluemix Local System W3500 and W3550 appliances with current subscription and support.

Key prerequisites

PureApplication Software Suite requires one of the following:

- Bluemix Local System W3500 or W3550 appliances
- Intel(TM), IBM POWER7(TM), or POWER8(TM) servers
IBM Softlayer

PureApplication Software V2.2.4 requires one of the following:

- Bluemix Local System W3500 or W3550
- PureApplication System W3700, W2700, W2500, W1700, or W1500 appliances
- Intel, IBM POWER7, or POWER8 servers
- IBM Softlayer

**Planned availability date**

September 29, 2017

**Description**

Bluemix Local and PureApplications systems are pre-integrated, cloud application platforms that include all of the hardware and the software management capabilities that are needed to help achieve fast time to value and enables simplicity in deploying and managing the lifecycle of development, test, and production workloads.

The PureApplication family consists of:

- Bluemix Systems W3500 and W3550 appliances that include PureApplication firmware (on-premise)
- PureApplication W2500 and W1500 Systems that include PureApplication firmware (on-premise)
- PureApplication W3700, W2700, and W1700 Systems that include PureApplication firmware (on-premise)
- PureApplication Software
- PureApplication Software Suite
- PureApplication Service (off-premise)

These PureApplication family components provide hybrid cloud capabilities that allow you to run your enterprise workloads, either on-premise, off-premise, or both. The Bluemix Local and PureApplication systems are designed to provide capabilities that utilize built-in expertise, which include virtualization, monitoring, and use management. These capabilities include:

- Integrated monitoring and management through an integrated user interface
- Support for growth to larger environments without system outages
- Built-in elasticity of application workloads
- Updates for entire infrastructure stack
- Support for IBM and partner content that is optimized for PureApplication, and also the addition of third-party software
- Single point of contact for software support

In addition, Bluemix Local and PureApplication systems are designed to provide:

- Integrated, optimized compute, network, and storage resources
- Integrated database and application server capability with the ability to expand server capacity up to the full capacity of the selected PureApplication configuration
Pattern-based deployment is an important component of the PureApplication family of products. PureApplication patterns of expertise enables rapid deployment of pretuned and optimized cloud-enabled applications, such as mobile, business process management, and analytics in minutes with a click of a button into an on-premise, Bluemix Local System cloud-application platform or into a dedicated PureApplication Service off-premise, private cloud.

Key cloud-application platform features that enhance the deployment and management of enterprise workloads include:

- OVF-OVA format support for user-managed virtual machine deployments with VMware vCenter
- Backup and restore capabilities with Tivoli Storage Manager for Virtual Environments
- License and subcapacity license tracking support through an external IBM License Metric Tool server
- Ongoing improvements to existing features and functions for reliability, resiliency, and currency

PureApplication System firmware V2.2.4 works with all Bluemix Local systems and PureApplication systems. It is available for all existing Bluemix Local systems and PureApplication System products with current subscription and support. PureApplication Service V2.2.4 enhancements include:

- Ability to quickly deploy and manage lifecycle of enterprise workloads in dedicated and isolated cloud environments.
- Hybrid cloud capability in conjunction with the PureApplication System, Bluemix Local System, or PureApplication Software. PureApplication Service includes metering for PureApplication Software or Software Suite on-premise usage.

PureApplication Service requires a PureApplication Service subscription for metering on-premise usage of PureApplication Software or Software Suite. This capability can be utilized with Bluemix Local systems for a complete, on-premise solution.

### Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT), containing details about accessibility compliance, can be found on the IBM Accessibility website.

### Section 508 of the US Rehabilitation Act

IBM PureApplication Software Suite V2.2.4 and PureApplication Software V2.2.4 are capable as of September 29, 2017, when used in accordance with the IBM associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be found on the IBM Accessibility website.

IBM makes no representation about the Section 508 status of these third-party products included in this offering. Contact the vendor for specific, current information about the Section 508 status of these products.

### Statement of general direction

IBM intends to deliver a load balancing pattern, based on the on demand router in WebSphere Application Server ND, in a future release of:

- PureApplication Software
- PureApplication Software Suite
- PureApplication Service on SoftLayer®
- PureApplication Systems W3550, W3500, and W3700 firmware
• PureApplication W2700, W2500, W1700, and W1500 firmware

The on demand router capability will replace elastic load balancing capability that will be deprecated. The effective date of discontinuance of support for elastic load balancing is April 30, 2018. For information, see Software Withdrawal Announcement 916-143, dated September 13, 2016.

IBM intends to deliver a pattern for orchestration of containerized enterprise workloads with Kubernetes for PureApplication Software, PureApplication Software Suite, PureApplication Service on SoftLayer, and PureApplication Systems W3550, W3500, and W3700 firmware, and PureApplication Systems W2700, W2500, W1700, and W1500 firmware.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remain at our sole discretion.

### Program number

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5737-B07</td>
<td>2.2.4</td>
<td>IBM PureApplication Software Suite</td>
</tr>
<tr>
<td>5725-Q52</td>
<td>2.2.4</td>
<td>IBM PureApplication Software</td>
</tr>
<tr>
<td>5725-Z16</td>
<td>2.2.4</td>
<td>IBM Bluemix Local System W3500</td>
</tr>
<tr>
<td>5725-Z17</td>
<td>2.2.4</td>
<td>IBM Bluemix Local System W3550</td>
</tr>
<tr>
<td>5725-X32</td>
<td>2.2.4</td>
<td>IBM PureApplication System W3700</td>
</tr>
<tr>
<td>5725-G32</td>
<td>2.2.4</td>
<td>IBM PureApplication System W1500</td>
</tr>
<tr>
<td>5725-F46</td>
<td>2.2.4</td>
<td>IBM PureApplication System W1700</td>
</tr>
<tr>
<td>5725-Q93</td>
<td>2.2.4</td>
<td>IBM PureApplication System W2500</td>
</tr>
<tr>
<td>5725-Q94</td>
<td>2.2.4</td>
<td>IBM PureApplication System W2700</td>
</tr>
<tr>
<td>5725-R71</td>
<td></td>
<td>Cloud Service</td>
</tr>
</tbody>
</table>

### Offering Information

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage® and Passport Advantage Express™ website.

### Publications

Product information is available.

### Services

IBM United States Software Announcement 217-457

IBM is a registered trademark of International Business Machines Corporation
Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Hardware requirements

PureApplication Software Suite requires one of the following:
- Bluemix Local System W3500 or W3550 appliances
- Intel, IBM POWER7, or POWER8 servers
- Softlayer

PureApplication Software V2.2.4 requires one of the following:
- Bluemix Local System W3500 or W3550 models
- PureApplication System W3700, W2700, W2500, W1700, or W1500 models
- Intel, IBM POWER7, or POWER8 servers
- IBM Softlayer

Software requirements

- Red Hat Enterprise Linux V6.0, V7.0, or later
- IBM Endpoint Manager for Patch Management V9.2.6, or later
- License Metric Tool V9.0, or later
- Tivoli Storage Manager for Virtual Environments V7.1.6, or later

Planning information

Packaging

PureApplication Software Suite V2.2.4 is configured by IBM on installed Bluemix Local and PureApplication systems.

Effective September 29, 2017, new Bluemix Local Systems W3500 and W3550 and PureApplication Systems W3700 factory shipments will be installed with firmware Version 2.2.4.

PureApplication Software V2 is delivered through the internet.

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which 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.

Ordering information
This product is only available through Passport Advantage. It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Channel Value Rewards.

More information can be found on the IBM Channel Value Rewards website.

To locate IBM Business Partners for Channel Value Rewards in your geography for a specific Channel Value Rewards portfolio, go to the Find a Business Partner page.

<table>
<thead>
<tr>
<th>Product group</th>
<th>Product Identifier Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PureApplication Software V2</td>
<td>5725-Q52</td>
</tr>
<tr>
<td>PureApplication Software Suite V2</td>
<td>5737-B07</td>
</tr>
<tr>
<td>Bluemix Local System W3500</td>
<td>5725-Z16</td>
</tr>
<tr>
<td>Bluemix Local System W3550</td>
<td>5725-Z17</td>
</tr>
<tr>
<td>PureApplication System W3700</td>
<td>5725-X32</td>
</tr>
</tbody>
</table>

**Passport Advantage**

There is no new ordering information for the products in this announcement.

**Charge metric**

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID</th>
<th>Charge metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM PureApplication Software V2</td>
<td>5725-Q52</td>
<td>Processor Value Unit</td>
</tr>
<tr>
<td>IBM PureApplication Software Suite V2</td>
<td>5737-B07</td>
<td>Processor Value Unit</td>
</tr>
</tbody>
</table>

**Processor Value Unit (PVU)**

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip (socket). A dual-core processor chip, for example, has two processor cores. The PVU table can be found on the PVU licensing for Distributed Software page. Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms found on the page. If using full capacity licensing, licensee must obtain PVU entitlements Virtualization Capacity License Counting Rules sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules that can be found on the Virtualization Capacity License Counting Rules page.

* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

**Notes**

- Some programs may require licenses for the program and what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
• A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

**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.

This product is only available through Passport Advantage.

**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. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

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

**Agreement for Acquisition of Software Maintenance**

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 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 number**

There are no changes to the license agreements for these products.

See the License Information documents page on the IBM Software License Agreement website for more information.

**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, see the IBM Software Support Handbook.

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

**Program support**

Subscription and Support includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

**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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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)**

No

**Passport Advantage applies**

Yes, information is available on the Passport Advantage and Passport Advantage Express website.

**Software Subscription and Support applies**

Yes. Software Subscription and Support, also referred to as Software Maintenance, is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

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 by 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 users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, see the IBM Software 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 the applicable agreements.

Unless specified otherwise in a written agreement with you, IBM does not provide support for third-party products that were not provided by IBM. Ensure that when contacting IBM for covered support, you follow problem determination and other instructions that IBM provides, including in the IBM Software Support Handbook.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the Passport Advantage and Passport Advantage Express website.

**Variable charges apply**

No

**Educational allowance available**

Not applicable.

---

**Statement of good security practices**

IT system security involves protecting systems and information through intrusion 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 regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

---

**Prices**

The prices are unchanged by this announcement.

**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 go to the IBM Global Financing website for more information.

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, can help
accelerate 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.

**Trademarks**

IBM, Bluemix, PureApplication, Tivoli, WebSphere, AIX, Power, POWER7, POWER8, Passport Advantage and Express are registered trademarks of IBM Corporation in the United States, other countries, or both. Oracle and Java are trademarks of Oracle and/or its affiliates in the United States, other countries, or both. Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both. Intel is a trademark of Intel Corporation or its subsidiaries in the United States and other countries. SoftLayer is a registered trademark of SoftLayer, Inc., an IBM Company, an IBM Company. 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. Additional terms of use are located at:

Terms of use

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

IBM United States