IBM PureApplication Software V2.2 and IBM PureApplication System V2.2 enhances high availability and disaster recovery, expands options for generating chargeback reports, and introduces support for Red Hat Enterprise Linux 7.2 for IBM POWER 8

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At a glance

IBM® PureApplication® Software V2.2 and IBM PureApplication System firmware update V2.2:

- Enables you to leverage an existing IP based WAN to lower costs and simplify configuration for disaster recovery.
- Doubles the number of nodes that can participate in a multisystem subdomain for improved support of workloads requiring high availability.
- Enables administrators to easily track PureApplication System resource utilization by organization or business unit to simplify cost recovery and chargeback administration.
- Enables support for Red Hat Enterprise Linux™ 7.2 for IBM POWER8® little endian for IBM PureApplications System W3700.

If you have IBM PureApplication Service, you can build secure tiered applications consisting of private and public networks, and leverage the IBM SoftLayer® DirectLink cloud exchange capabilities for faster connections to your PureApplication Service instances.

If you have a PureApplication System W1500, W1700, W2500, W2700, or W3700 with support, you are entitled to PureApplication System firmware V2.2. Contact your IBM representative.

Overview

IBM PureApplication System, including IBM PureApplication Software V2.2, is a preintegrated, cloud application platform that includes all of the hardware and the software management capabilities needed to help achieve fast time to value and simplicity in deploying and managing the lifecycle of development, test, or production workloads. The PureApplication family consists of:

- IBM PureApplication System appliances (on-premises)
• IBM PureApplication Service (off-premises)
• IBM PureApplication Software

Together, these solutions provide hybrid cloud capabilities by allowing you to run the same enterprise workloads on-premises, off-premises, or both.

PureApplication is designed to achieve these benefits through the built-in expertise focused on virtualization, monitoring, usage management, and other cloud capabilities that include:

• Integrated monitoring and management through an integrated, user interface.
• Integrated, optimized compute, network, and storage resources.
• Support for growth to larger environments while system continues operating.
• Built-in elasticity of application workloads.
• Updates for entire infrastructure stack.
• Integrated database and application server capability with the ability to expand server capacity up to the full capacity of the chosen PureApplication configuration.
• Support for IBM and IBM Business Partner content that is optimized for PureApplication, in addition to third-party software.
• Single point of contact for IBM hardware and software support.

Pattern-based deployment is an important component of the PureApplication family of products. PureApplication patterns of expertise enable 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-premises PureApplication System cloud application platform or into a dedicated PureApplication Service off-premises private cloud.

PureApplication System firmware V2.2 enhancements

• Replication of disks over IP based WAN for disaster recovery: Organizations can leverage existing IP based WAN connectivity between sites for disk replication for disaster recovery. This can lower costs by simplifying setup and configuration, and eliminating the need for dedicated fiber channel switches.

• PureApplication System multisystem management: The number of PureApplication Systems that can be added to multisystem deployment subdomains is increased from two to four. Usability improvements are included in the configuration and management of multisystem domain management. Multisystem deployments are now enabled to horizontally scale into new systems that were not included in the initial instance deployment.

• Resource utilization and chargeback: Administrators can create organization profiles to track PureApplication System resource usage by business unit. This resource usage information can be used to allocate costs to each business unit (chargeback) and to generate reports that can be used for capacity planning and cost recovery. This enhancement is also available in PureApplication Software V2.2.

• System serviceability improvements: PureApplication health check improvements include information on the status of the most recent backup, the resource monitoring and control (RMC) connectivity status of LPARs (IBM Power® only), upcoming maintenance schedules, and usability improvements. Usability improvements:
  - Ability to send an email from PureApplication to one or more subscribers when a call home event is raised
  - Added more serviceability actions on the UI, including the ability to recycle a switch port and reset system trace levels back to defaults
  - Enhanced log collection sets by adding more VMware diagnostics data to compute node collection sets (Intel® only)
• **Support for Red Hat Enterprise Linux 7.2 for IBM POWER8 little endian:**
  If you have PureApplication System W3700 installed, you can build a virtual
  image for use in PureApplication System and PureApplication Software patterns.
  The procedure for building a virtual image is documented in the IBM Knowledge
  Center. You must acquire Red Hat Enterprise Linux 7.2 for IBM POWER8 little
  endian from Red Hat.

PureApplication Software V2.2 is available through Passport Advantage®.
PureApplication System firmware updates are installed by IBM.

**PureApplication Service enhancements**

Added support for private networks in PureApplication Service enables you to build
secure tiered applications consisting of both private and public networks.

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**Key prerequisites**

One of the following:

• A model of IBM PureApplication System W3700, W2500, W2700, W1500, or
  W1700
• IBM PureApplication Software
• IBM PureApplication Service

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**Planned availability date**

March 18, 2016

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**Description**

**Accessibility by people with disabilities**

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details
on accessibility compliance can be requested at the Product accessibility information
website.

**Section 508 of the US Rehabilitation Act**

IBM PureApplication Software is capable as of March 18, 2016, when used in
accordance with IBM’s 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.

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**Statement of general direction**

IBM intends to provide the following IBM PureApplication Service instances to enable
running more CPU-intensive workloads:

• 12-core, 128 GB RAM
• 12-core, 256 GB RAM
• 24-core, 256 GB RAM
• 24-core, 512 GB RAM
• 40-core, 1024 GB RAM

IBM intends to certify PureApplication Service compliance with the ISO/IEC 27001 standard with an independent validation of its comprehensive and systematic approach to information security. This certification is intended to provide confidence that information security has the necessary security controls across personnel, assets, information, and processes.

IBM intends to make PureApplication Service available for federal clients by developing and delivering its Federal Risk and Authorization (FedRAMP) package and making PureApplication Service available in the IBM SoftLayer FedRAMP certified data centers located in both Washington, DC, and Dallas, Texas.

IBM intends to make PureApplication Software available for federal clients’ on-premises needs by completing its Federal Information Security Management Act (FISMA) Plan of Action and Milestones Policy. This will enable federal clients to leverage PureApplication as a hybrid production solution with PureApplication Service.

IBM intends to enable PureApplication Service clients to connect to their PureApplication Service instances through the SoftLayer DirectLink Cloud Exchange in the nine Equinix International Business Exchange data centers worldwide. This will complement the current ability to connect PureApplication Service instances through SoftLayer Direct Link Network Service Provider in 19 points of presence across the globe.

**Statement of deprecation**

IBM intends to remove the following IBM PureApplication add-ons from the next release of PureApplication System firmware, PureApplication Software, and PureApplication Service:

• Tooling pattern type

• IBM image construction and composition tool

The capabilities of these add-ons are provided by equivalent capabilities in the OS pattern kit add-on available in PureApplication System firmware, PureApplication Software, and PureApplication Service.

IBM intends to remove the web application pattern type (all versions) from the next release of PureApplication System firmware. The capabilities of web pattern type will be replaced by equivalent capabilities in the IBM WebSphere® Application Server Network Deployment pattern type.

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.

**Reference information**

For information about IBM PureApplication System W1500, refer to:

• Software Announcement 212-117, dated April 11, 2012.

• Software Announcement 213-434, dated September 24, 2013.
For information about IBM PureApplication System W1700, refer to:


For information about IBM PureApplication Systems W2500 and W2700, refer to Software Announcement 214-203, dated April 22, 2014.

For information about IBM PureApplication System W3700, refer to Software Announcement 215-316, dated August 11, 2015.

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This announcement also relates to the following products:

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### 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

Publications for IBM PureApplication Software V2.2 is available at the IBM Knowledge Center.

- For IBM PureApplication System W1500
- For IBM PureApplication System W1700
- For IBM PureApplication System W2500
- For IBM PureApplication System W2700
- For IBM PureApplication System W3700

### Services

#### 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 or to contact a Software Services sales specialist, go to the IBM Software Services website.

Technical information

**Specified operating environment**

**Hardware requirements**

IBM PureApplication Software V2.2.0 can be used on:

- IBM PureApplication System W3700, W2500, W2700, W1500, or W1700 appliances.
- Your Intel, IBM POWER7(R), or IBM POWER8 services.

**Software requirements**

Refer to Hardware requirements section.

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.

**Planning information**

**Packaging**

This program, when downloaded from a website, 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.

**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 Software Value Plus.

More information can be found on the IBM Software Value Plus website.

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

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For information about ordering IBM PureApplication Software V2, refer to Software Announcement 214-222, dated May 27, 2014.

### Charge metric

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#### 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 Virtualization Capacity License Counting Rules page. If using full capacity licensing, licensee must obtain PVU entitlements 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.
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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.

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See the License Information documents page on the IBM Software License Agreement website for more information. The license information documents will be available on March 18, 2016.

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 technical support
Technical support of a program product version or release will be available for a minimum of three years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

**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](https://www.ibm.com/漆/漆) 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.

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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](https://www.ibm.com/漆/漆). 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.
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.

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

Not applicable.

**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 lawful, 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**

**Business Partner information**

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required to access the https://www.ibm.com/software/howtobuy/passportadvantage/paoresellerwebsite.

**Passport Advantage**

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