



IBM WebSphere Application Server simplifies the adoption of a hybrid cloud strategy and accelerates the software delivery lifecycle

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Overview

Organizations increasingly are deploying and migrating applications to public and private clouds to enable faster innovation and business agility. Cloud and mobile technologies are changing industries across all segments of life, but when business leaders embrace a cloud-first approach, they are rewarded with reduced operational costs, speeding up applications to market, and empowering developers to deliver new cognitive innovations.

To support the business goals of bringing agility and operational efficiency to their operations, enterprise IT adopts a hybrid cloud strategy. This:

- Simplifies creation of the new generation of cloud-native workloads that support agile methodologies.
- Simplifies migration of existing applications to cloud for cost optimization.
- Enhances existing on-premises applications by integration with off-premises cloud services for those applications that are constrained to on-premises deployments.

During this transformation, enterprise IT should monitor the application server sprawl because management of these non-centralized environments can quickly add to cost and negate the benefits of cloud adoption.

To counter the increased cost of maintenance, WebSphere[®] Application Server not only delivers the same level of control for availability, performance, and security services across hybrid environments, but now provides a single view of assets, utilization, or service levels across the on-premises and cloud topologies.

Highlights

- IBM[®] WebSphere Application Server in Bluemix[®] Dedicated. The WebSphere Application Server traditional enterprise system of record application in Bluemix Dedicated provides physically isolated hardware in an IBM data center.
- WebSphere Application Server Migration Toolkit. The toolkit provides enhanced capabilities to move an existing application outside of the firewall and into WebSphere Application Server in Bluemix to ensure topology, security, and governance.
- UrbanCode[™] Continuous Integration and Delivery. This enables seamless automation of the configuration of WebSphere Application Server in Bluemix topologies to eliminate the risk of app failure due to incorrect setup, build, and

delivery. It delivers innovations to the cloud faster and with consistency and governance through integration with UrbanCode Deploy.

- WebSphere Connect enhancements. Continued enhancements to the WebSphere Connect capabilities bring the WebSphere Application Server traditional and WebSphere Liberty application servers to full equivalency. This is across all platforms, for API Documentation and Discovery, integration with Bluemix cloud services, and more.

The WebSphere Connect capabilities of WebSphere Application Server provide a platform to create innovative new offerings and extensions to WebSphere itself, which include the following:

- WebSphere Application Server participation as part of IBM Cloud Product Insights Bluemix service. This service can communicate with on-premises WebSphere Application Server traditional and Liberty application servers to build a product inventory that is both private and secure. This inventory can then help reduce software entitlement costs by providing insights into WebSphere Application Server product usage, as displayed on a Bluemix dashboard. Eliminate or combine unused WebSphere Application Server entitlements and evaluate alternative pricing metrics, such as Virtual Processor Cores (VPC) monthly or cloud pay-as-you-go.

For more information on IBM Cloud Product Insights, refer to Software Announcement [217-123](#), dated March 7, 2017.

- IBM Voice Gateway is a new offering that provides a valuable addition to call centers and telephony applications by integrating with select Watson™ services to improve the automated client experience and reduce costs. It can reduce the number of calls transferred to live operators, and also provide real time context and support to live operators to help expedite problem resolution.

For more information, refer to Software Announcement [217-145](#), dated March 14, 2017.

Microservice Builder Beta program

A new beta program, Microservice Builder, provides a turn-key approach with simple, step-by-step support that details how to create applications in a microservices framework. The goal of Microservice Builder is to greatly simplify the software delivery pipeline that enables continuous delivery of Dockerized microservices and provides developers with a frictionless application lifecycle from laptop through production. Microservice Builder intends to shorten the software delivery lifecycle for microservices from weeks, to days, to minutes.

IBM WebSphere eXtreme Scale for IBM Bluemix Container Service

Build and deploy in-memory data grids, which are based on WebSphere eXtreme Scale, as containers in Bluemix for fully elastic, memory-based storage grid. This enhances application performance by pointing to a single key addressable storage pool for application caching.

Key prerequisites

Runs on various releases of AIX^(R), HPUX, IBM iOS, Linux[™], Solaris, Windows[™], and Ubuntu operating systems. For details, refer to the [Technical information](#) section.

Planned availability date

March 14, 2017

Description

WebSphere Application Server in Bluemix

For security, privacy, or performance reasons, many enterprises need their own cloud environment. With Bluemix Dedicated, business owners can have their own cloud, with physically isolated hardware, ready as soon as it is needed.

WebSphere Application Server in Bluemix Dedicated provides physically isolated hardware in an IBM data center. As an isolated and provisioned solution, this Bluemix environment is created just for owners. With the syndicated catalog, they can power their apps and services with a combination of WebSphere Application Server for Bluemix Dedicated, dedicated runtimes, dedicated containers and services, and also services from the public Bluemix catalog.

Migration to Bluemix with confidence

Many organizations plan on cloud migrations to achieve scalability, cost-efficiency, and higher application performance. Without guidance and tooling, migrating WebSphere applications to the cloud can be a complex process that requires careful planning and deliberation.

WebSphere Application Server Migration Toolkit now includes enhanced capabilities to move an existing application outside of the firewall and into WebSphere Application Server for Bluemix to ensure topology, security, governance, capacity, and tooling. Dependencies are identified and resolved by using IBM Best Practices. Use of these tools provides a migration path to WebSphere Application Server V9 and helps to eliminate risk of application transition issues or failure.

Traditional DevOps and the cloud

Urban Code Continuous Integration and Delivery allows users to seamlessly automate the configuration of WebSphere Application Server in Bluemix topologies. It helps to eliminate risk of app failure due to incorrect setup, build, and delivery and enables faster migration to the cloud with consistency and governance through integration with Urban Code Deploy.

UrbanCode Deploy leverages a WebSphere Application Server -- Configuration plugin to capture WebSphere configuration settings at the various scope levels, such as cell, cluster, node, and server. In addition, UrbanCode Deploy can use a DevOps-enabled toolchain (for example, Git, Maven, or Jenkins) to deliver apps with speed and reliability to WebSphere Application Server in Bluemix.

WebSphere Connect and related offerings

WebSphere Application Server continues to bring new features and functions to help applications extend to the cloud. With these new features and functions, you can protect applications while maintaining the agility and efficiency that the cloud provides. This approach brings cloud economics of software costs to on-premises offerings and enables truly hybrid deployment of assets through unified, on-premises cloud inventory, management, analytics, and billing.

The WebSphere Connect capabilities of WebSphere Application Server provide a platform to create innovative new offerings and extensions to WebSphere Application Server itself, which are part of the IBM Connect to Cloud set of offerings. Because of the flexibility and transparency that WebSphere Connect provides, these offerings can be made available as on-premises products, IBM Cloud services, or both.

IBM Cloud Product Insights

Cloud Product Insights is a Bluemix service that communicates with on-premises IBM software products to build a cross-product inventory and provide usage insights by collecting key metrics from each product. WebSphere Application Server, both WebSphere Application Server traditional and Liberty, provides the opportunity to integrate with this service. Cloud Product Insights service runs within Bluemix and receives information from the enabled on-premises IBM software products. This information is then shown within the service instance dashboard. To use the

service, users must have an IBM Bluemix account and create the service in an organization and space. The product and usage information for their enabled on-premises products is securely stored and viewed within the scope or context of that unique service.

IBM Voice Gateway

Voice Gateway is a new offering that provides a way to integrate a set of orchestrated Watson services with a public or private telephone network using the Session Initiation Protocol (SIP) provided by WebSphere Application Server. Voice Gateway enables direct voice interactions over a telephone with a cognitive, self-service agent, or the ability to transcribe a phone call between a caller and live agent in real time. This enables the ability to process the conversation with analytics for real-time agent feedback.

Microservice Builder Beta

As organizations undertake digital and mobile transformation, they seek tools and infrastructure to help them transform quickly. They often demand that these tools for transformation be provided by their application infrastructure provider. The tools help them to compose and release software more rapidly and predictably, which enables them to respond more effectively to their customers' needs.

Microservice Builder delivers a turn-key approach that facilitates the enterprise transformation through learning, building, running, and managing applications in a microservices framework. With step-by-step guidance provided by Microservice Builder, developers can easily learn about the intricacies of microservice apps, quickly compose and build innovative services, and then rapidly deploy them to various stages by using a pre-integrated DevOps pipeline. Microservice Builder includes programming model extensions to Java™ EE, defined by the MicroProfile.io collaboration, for writing Java-based microservices. Containerized apps created using Microservice Builder can then be deployed to Kubernetes-orchestrated Docker environments either on-premises or in the cloud. Microservice Builder provides users with end-to-end guidance that includes configuration, development, deployment, capacity planning, and monitoring to ensure a smooth microservices lifecycle from development to production.

Microservice Builder Beta includes:

- Beta binaries to support building and testing environments for microservice apps
- Low touch development to deployment experience with simplification of DevOps tasks
- Ease of deployment to Bluemix using container services
- Ease-of-problem diagnostics with Log Analytics and Monitoring
- Support for single sign-on (SSO) for security authentication and authorization
- A new landing page that supports end-to-end guidance to build Java microservices using extensions to Java EE defined by the MicroProfile.io collaboration

Microservice Builder Beta also provides access to IBM Spectrum™ Conductor for Containers, a Kubernetes-based Docker management system to simplify deployment on a single server or a pre-built Kubernetes cluster.

Rational^(R) Tools for WebSphere Application Server

Rational Application Developer for WebSphere Software V9.6 and Rational Software Architect Designer for WebSphere Software V9.6 are the first Rational offerings to support WebSphere Application Server traditional V9.0. They also support the latest quarterly release of Liberty and continue to support older WebSphere Application Server and Liberty versions.

Based on Eclipse Neon 4.6.1, these Rational tools deliver:

- Extensive improvements to the JavaScript™ editing and development tools, and support for newer JavaScript specification levels
- New integration with the Blanket JavaScript code coverage framework, and fuller integration of the Jasmine JavaScript Unit Test framework into the IDE user experience
- New framework that enables clients to integrate their favorite command-line interface tools into their IDE user experience
- Forward and reverse transformation between UML and Swagger
- Currency updates, such as Eclipse tools for
 - Bluemix 1.0.8
 - Cordova 6.3.1
 - The IBM SDK for Node.js 6.2.2
 - Others

For more information on Rational Application Developer for WebSphere Software V9.6, see Software Announcement [216-472](#), dated November 29, 2016.

For more information on Rational Software Architect Designer for WebSphere Software V9.6, see Software Announcement [216-472](#), dated November 29, 2016.

WebSphere eXtreme Scale for IBM Bluemix Container Service

Containers and microservices are pervasive today. They bring the promises of agility, scalability, and resiliency to transform your business overnight. WebSphere eXtreme Scale supports Container-as-a-Service (CaaS) offerings, such as Containers on Bluemix. WebSphere eXtreme Scale for Bluemix Container Service can be used to significantly reduce the time and effort to deploy and manage containers in the cloud. Users can get started quickly, realize the value of their microservice aspirations, and scale out WebSphere eXtreme Scale to additional teams and applications quickly on Bluemix. This can all be accomplished while minimizing unnecessary overhead.

WebSphere eXtreme Scale for Bluemix Container Service

- Easy to deploy and start caching servers within minutes by using IBM containers.
- Simplified set up with Bluemix Liberty applications and requires no additional configuration .
- Supports rolling upgrades one container at a time with no downtime for end users.

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

WebSphere Application Server V9.0, WebSphere Application Server Liberty Core V9.0, WebSphere Application Server Network Deployment V9.0, and WebSphere Application Server Family Edition V9.0 are capable as of June 24, 2016, when used in accordance with associated IBM 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.

Reference information

For information on IBM Cloud Product Insights, refer to Software Announcement [217-123](#), dated March 7, 2017.

For information on IBM Voice Gateway, refer to Software Announcement [217-145](#), dated March 14, 2017.

Program number

Program number	VRM	Program name
5724-J08	9.0.0	WebSphere Application Server
5725-L29	9.0.0	WebSphere Application Server Liberty Core
5724-H88	9.0.0	WebSphere Application Server Network Deployment
5725-Y70	9.0.0	WebSphere Application Server Family Edition

Publications

The latest product documentation for WebSphere Application Server V9.0 is found in [IBM Knowledge Center](#).

IBM Knowledge Center is the new home for IBM product documentation. It brings IBM's technical publications together in a single location, and replaces over 800 individual product Information Centers. IBM Knowledge Center simplifies the user experience, improves search, and refines the overall experience with other enhancements. Locate the desired WebSphere Application Server offering from the product list to obtain the product documentation.

You can find information on installing the continuous delivery features in the WebSphere Application Server product documentation. No hardcopy publications are shipped with this product. Using IBM Knowledge Center, users can define collections and produce custom PDF documents for their collections.

For optimal viewing of this documentation, browser support for JavaScript™ and related technologies is required.

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, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Software requirements

Minimum WebSphere Application Server operating systems:

- AIX V7.1 TL4 (64 bit)

- AIX V7.2
- HPUX 11i V3 IA64
- IBM iOS 7.1 (64)
- IBM iOS 7.2 (64)
- IBM iOS 7.3 (64)
- Red Hat Enterprise Linux (RHEL) 7.0
- Red Hat Enterprise Linux (RHEL) POWER^(R) 7.0 BE
- Red Hat Enterprise Linux (RHEL) POWER 7.1 LE
- Red Hat Enterprise Linux (RHEL) System z^(R) 7.0
- Red Hat Enterprise Linux (RHEL) 6.0 update 6
- Red Hat Enterprise Linux (RHEL) POWER 6.0 update 6
- Red Hat Enterprise Linux (RHEL) System z 6.0 update 6
- SUSE Linux Enterprise Server (SLES) 11 SP 2
- SUSE Linux Enterprise Server (SLES) POWER 11SP 2
- SUSE Linux Enterprise Server (SLES) System z 11 SP 2
- SUSE Linux Enterprise Server (SLES) 12
- SUSE Linux Enterprise Server (SLES) POWER 12 LE
- SUSE Linux Enterprise Server (SLES) System z 12
- Solaris 11.1 x86-64
- Solaris 11.1 SPARC
- Ubuntu 14.04 LTS x86-64
- Ubuntu 14.04 LTS PPC64 Little Endian
- Ubuntu 16.04 LTS x86-64
- Ubuntu 16.04 LTS PPC64 Little Endian
- Ubuntu 16.04 LTS System z
- Windows Server 2012
- Windows Server 2012 R2

For complete details, refer to WebSphere Application Server [detailed system requirements](#).

Limitations

Additional information can be found on the [License Information documents](#) found on the IBM Software License Agreement website.

Planning information

Packaging

WebSphere Application Server Liberty Core

WebSphere Application Server Liberty Core offering includes:

- WebSphere Application Server Liberty
- WebSphere Application Server Supplements (IBM HTTP Server, WebSphere Customization Toolkit, and Web Server Plugins)
- IBM SDK Java™ Technology Edition Version 8.0
- IBM Installation Manager V1.8.5
- IBM DB2^(R) Workgroup Server Edition - Restricted Use V10.5
- IBM DB2 Workgroup Server Edition - Restricted Use V11.5
- IBM API Connect™ Essentials V5.0
- Firefox Version 3.6.25.2

WebSphere Application Server

WebSphere Application Server offering includes:

- WebSphere Application Server
- WebSphere Application Server Liberty
- WebSphere Application Server Supplements (Application Client, IBM HTTP Server, WebSphere Customization Toolkit, and Web Server Plugins)
- IBM SDK Java Technology Edition V8.0
- Installation Manager V1.8.5
- DB2 Workgroup Server Edition - Restricted Use V10.5
- DB2 Workgroup Server Edition - Restricted Use V11.1
- WebSphere Adapters V7.5.0.3
- Rational[®] Application Developer for WebSphere Software V9.6, evaluation
- Rational Agent Controller V9.6
- Security Directory Server V6.4
- Security Directory Suite Limited Edition V8.0
- API Connect Essentials V5.0
- Firefox Version 3.6.25.2

WebSphere Application Server Network Deployment

WebSphere Application Server Network Deployment offering includes:

- WebSphere Application Server
- WebSphere Application Server Liberty
- WebSphere Application Server Supplements (Application Client, IBM HTTP Server, WebSphere Customization Toolkit, and Web Server Plugins)
- IBM SDK Java Technology Edition V8.0
- Installation Manager V1.8.5
- IBM DMZ Secure Proxy Server
- WebSphere Edge Components: Load Balancer for IPv4 and IPv6
- WebSphere Edge Components: Caching Proxy
- DB2 Workgroup Server Edition - Restricted Use V10.5
- DB2 Workgroup Server Edition - Restricted Use V11.1
- WebSphere Adapters V7.5.0.3
- Rational Application Developer for WebSphere Software V9.6, evaluation
- Rational Agent Controller V9.6
- API Connect Essentials V5.0
- Security Directory Server V6.4
- Security Directory Suite Limited Edition V8.0
- Security Access Manager Virtual Edition V9.0
- Security Access Manager Virtual Edition Federation Module V9.0
- Firefox Version 3.6.25.2

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^(R). 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.

Product group: WebSphere

Product:

Product Identifier Description	PID
WebSphere Application Server	5724-J08
WebSphere Application Server Liberty Core	5725-L29
WebSphere Application Server Network Deployment	5724-H88
WebSphere Application Server Family Edition	5725-Y70

Product category: Application Infrastructure

Passport Advantage

WebSphere Application Server

Program name/Description	Part number
WebSphere Application Server Per Processor Value Unit (PVU)	
License + SW Subscription & Support 12 Months	D55W8LL
Annual SW Subscription & Support Renewal	E025QLL
SW Subscription & Support Reinstatement 12 Months	D55W9LL
WebSphere Application Server Per Limited Use Socket	
License + SW Subscription & Support 12 Months	D0GUSLL
Annual SW Subscription & Support Renewal	E0AT3LL
SW Subscription & Support Reinstatement 12 Months	D0GUULL

WebSphere Application Server Liberty Core

Program name/Description	Part number
WebSphere Application Server Liberty Core Per PVU	
License + SW Subscription & Support 12 Months	D0ZDZLL
Annual SW Subscription & Support Renewal	E0HGKLL
SW Subscription & Support Reinstatement 12 Months	D0ZE0LL
WebSphere Application Server Liberty Core Per 20 Authorized User Single Install	
License + Subscription & Support 12 Months	D0ZE2LL
Annual SW Subscription & Support Renewal	E0HGLLL

Program name/Description	Part number
SW Subscription & Support Reinstatement 12 Months	D0ZE3LL

WebSphere Application Server Network Deployment

Program name/Description	Part number
WebSphere Application Server Network Deployment Per PVU	
License + SW Subscription & Support 12 Months	D55WJLL
Annual SW Subscription & Support Renewal	E025SLL
SW Subscription & Support Reinstatement 12 Months	D55WKLL

WebSphere Application Server Family Edition

Program name/Description	Part number
WebSphere Application Server Family Edition Per PVU	
License + SW Subscription & Support 12 Months	D1KI6LL
Annual SW Subscription & Support Renewal	E0M8FLL
SW Subscription & Support Reinstatement 12 Months	D1KI7LL

Passport Advantage trade up

You must have previously acquired licenses for the following precursor products to be eligible to acquire equivalent licenses of the trade-up products.

Precursor product	Trade-up product	Trade-up part number
WebSphere Application Server -Express ^(R)	WebSphere Application Server PVU Trade-up License + S&S 12 months	D55WBLL
Qualified competitor	WebSphere Application Server PVU for Linux on z Systems TM Trade-up License + S&S 12 months	D55WILL

Customers must have current active Software Subscription and Support in place for all of the licenses that will be given up by the use of the trade-up parts. Those customers with lapsed support need to reinstate their S&S contracts to be eligible for trade-ups.

Consult your IBM representative if you have any questions.

Cross-platform product for use on z Systems Integrated Facility for Linux (IFL) engines or zEnterprise^(R) BladeCenter Extension

Order the part numbers that follow when the product is intended to run on zEnterprise BladeCenter Extension or the Linux operating system on z Systems IFL engines. If the product is not intended to run in these environments, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

WebSphere Application Server

Program name/Description	Part number
WebSphere Application Server for Linux on z Systems Per Limited User Socket	
License + Software S&S 12 Months	D0GUTLL
Annual Software S&S Renewal	E0AT4LL
Software S&S Reinstatement 12 Months	D0GUVLL

WebSphere Application Server

Program name/Description	Part number
WebSphere Application Server for Linux on z Systems Per PVU(PVU)	
License + Software S&S 12 Months	D55WELL
Annual Software S&S Renewal	E025RLL
Software S&S Reinstatement 12 Months	D55WFLL

WebSphere Application Server Liberty Core

Program name/Description	Part number
WebSphere Application Server Liberty Core for Linux on z Systems Per PVU	
License + Software S&S 12 Months	D0ZDXLL
Annual Software S&S Renewal	E0HGJLL
Software S&S Reinstatement 12 Months	D0ZDYLL

WebSphere Application Server Liberty Core

Program name/Description	Part number
WebSphere Application Server Liberty Core for Linux on z Systems Per 20 Authorized User Single Install	
License + Software S&S 12 Months	D0ZE4LL
Annual Software S&S Renewal	E0HGMLL
Software S&S Reinstatement 12 Months	D0ZE5LL

WebSphere Application Server Network Deployment

Program name/Description	Part number
WebSphere Application Server Network Deployment for Linux on z Systems Per PVU	
License + Software S&S 12 Months	D55WQLL
Annual Software S&S Renewal	E025TLL
Software S&S Reinstatement 12 Months	D55WRLL

WebSphere Application Server Family Edition

Program name/Description	Part number
WebSphere Application Server Family Edition for Linux on z Systems Per PVU	
License + Software S&S 12 Months	D1KICLL
Annual Software S&S Renewal	E0M8GLL
Software S&S Reinstatement 12 Months	D1KIDLL

Charge metric

Program name	Part number or PID number	Charge metric
WebSphere Application Server	5724-J08	PVU
		Limited Use Socket
WebSphere Application Server Liberty Core	5725-L29	PVU
		20 Authorized Users
WebSphere Application Server Network Deployment	5724-H88	PVU
WebSphere Application Server Family Edition	5725-Y70	PVU

Authorized User

Authorized User is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. The program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User given access to the program in any manner directly or indirectly (for example, through a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

Note: Some programs may be licensed where devices are considered users. In that case, the following applies. Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate user of the program and requires an entitlement as if that device were a person.

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.

Limited Use Socket

Limited Use Socket is a unit of measure by which the Program can be licensed. A socket is electronic circuitry that accepts a processor chip. A server is a physical

computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. A virtual server is either a virtual computer created by partitioning the resources available to a physical server that complies with the requirements of the [Sub-capacity Guide](#) or the unpartitioned physical server. If Licensee's virtualization environment does not comply with the requirements of the [Sub-capacity Guide](#), the entire physical server must meet all requirements in this license. Licensee must obtain Limited Use Socket entitlements for each socket on the virtual servers made available to the Program. The total number of sockets on any virtual server made available to the Program cannot exceed 4.

Terms and conditions

The terms and conditions for WebSphere Application Server, as previously announced in Software Announcement [215-269](#), dated June 9, 2015, are unchanged

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

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, permits

accelerated implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified customers.

Order now

To order, contact your Americas Call Centers, local IBM representative, or your IBM Business Partner. To identify your local IBM representative or IBM Business Partner call 800-IBM-4YOU (426-4968). For more information, contact the Americas Call Centers.

Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: callserv@ca.ibm.com

For IBM Business Partner: pwcs@us.ibm.com

Mail:

IBM Teleweb Customer Support
ibm.com^(R) Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada L3R 2Z1

Reference:

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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