



IBM WebSphere Extended Deployment Compute Grid V8.0 enables concurrent online transaction processing and entry, execution, and management of Java batch jobs

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At a glance

WebSphere® Extended Deployment Compute Grid V8.0 provides an end-to-end managed batch execution experience. It combines enterprise-strength qualities of service with developer and data center productivity tools to bring time-to-value benefits into a pre-integrated framework for batch workload execution. WebSphere Extended Deployment Compute Grid V8.0 offers the ability to develop, deploy, and manage batch jobs (applications) executing in several execution environments from a central console.

In addition to a Java™ batch programming model and container services (provided by a job dispatcher and a batch container), WebSphere Extended Deployment Compute Grid supplies:

- The ability to manage Java batch applications deployed to non-Java EE execution environments such as z/OS®, CICS®, and more
- The ability to call COBOL modules within a Java application
- Enhanced performance throughput exploiting multithreading within a single Java Virtual Machine (JVM)
- Calendar and clock scheduling of jobs
- Integration with enterprise scheduler
- Usage reporting
- Workload management transaction classification by job
- Application quiesce and update
- Job pacing and job execution throttling
- Parallel job management and dispatching

For ordering, contact your IBM® representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

WebSphere Extended Deployment Compute Grid V8.0 offers a managed batch execution environment that enables the entry, execution, and management of Java batch processing on mainframe or in distributed environments. It provides an infrastructure for batch processing to allow sharing of business logic with

online transaction processing (OLTP) applications as well as applications written in traditional languages. This helps to lower cost by reducing risk and management effort, supplies an "always-on" business experience by eliminating offline batch windows, and delivers enterprise qualities of service required by mission-critical batch applications. With WebSphere Extended Deployment Compute Grid V8.0, batch jobs and online transaction processing can execute concurrently.

Benefits of WebSphere Extended Deployment Compute Grid V8.0 include:

- End-to-end batch management of jobs running across disparate execution environments, such as WebSphere Application Server and CICS
- An optimal OLTP uptime experience through continuous interleaving of batch and interactive (OLTP) processes
- Parallel processing using Parallel Job Manager, where large problems can be partitioned, governed, and processed in parallel across a collection of server resources while hiding the complexities of multithreading and management
- Near real-time batch processing with ad-hoc and event-driven batch invocation, in addition to scheduled batch invocation
- Reuse of assets written in Java, COBOL, PL/I, C/C++, and more
- An architectural framework in support of changes to business processes
- The ability to shift batch workloads to new languages and runtime environments, leveraging existing assets where appropriate

Key prerequisites

Application servers

- WebSphere Application Server Network Deployment V7.0.0.15 and future fix packs
- WebSphere Application Server Network Deployment V8.0 and future releases, modification levels, and fix packs

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

- June 17, 2011 - Electronic distribution
- July 29, 2011 - Media packs

Description

WebSphere Extended Deployment Compute Grid V8.0 is a pre-integrated application framework to develop, deploy, and manage batch jobs executing across disparate execution environments and thereby providing an end-to-end batch management experience. It helps increase developer productivity, developer efficiency, and operational efficiency.

Batch applications overview

Batch processing is a fundamental component of enterprise application infrastructure. Batch transactions do not interact with the end user. In contrast, OLTP is typically driven by user interaction. The focus of Java EE and other transaction processing technologies has been to address OLTP needs. However, the adoption of these newer middleware technologies has caused batch processing applications to be left behind, such that batch and OLTP have split into silos.

A key concept of service-oriented architecture (SOA) is to reuse assets across the enterprise, which is composed of both OLTP and batch workloads. The challenge is cost-effectively bringing these disparate environments back together to deliver an

agile, efficient, and high-performance middleware infrastructure that reincorporates the cost savings of batch processing into today's transaction environment.

Highlights of the enhancements delivered in WebSphere Extended Deployment Compute Grid V8.0 include:

- Support for IBM WebSphere Application Server V8.0
- Parallel Job Manager enhancements providing higher throughput for small jobs by taking advantage of multithreading within a single JVM
- Fine-grained security for enhanced job management
- Enhanced security with role-based authorization and OSGi bundle support
- Job log enhancements and job console enhancements for operational efficiency and ease of troubleshooting
- Programming model enhancements for developer productivity and operational efficiency
- IBM Installation Manager (IM)-based installation across all supported WebSphere Application Server environments

Comparison of WebSphere Extended Deployment Compute Grid V6.1.1 and V8.0

Key features	WebSphere Extended Deployment Compute Grid version		
	V6.1 N-2	V6.1.1 N-1	V8.0
Simplified programming model	X	X	X
Native execution endpoints and applications	X	X	X
External workload scheduler integration	X	X	X
Job Management Console for batch job management	X	X	X
Batch data stream (BDS) framework that includes prebuilt code to work with popular streams such as text, byte, database, datasets	X	X	X
Scripting interface for batch job administration without administrative console	X	X	X
Parallel Job Manager to split batch processing to run in parallel across multiple JVMs for faster processing	X	X	X
Support for running 64-bit batch jobs on z/OS		X	X
Calendar and clock scheduling of jobs		X	X
Integration with Enterprise Monitoring products		X	X
Out-of-the-box integration with enterprise schedulers		X	X
Job pacing and job execution throttling to provide control to mix batch with OLTP within common Java execution environment and manage to batch execution completion goals		X	X
Integration with workload management classification capabilities of WebSphere Application Server for z/OS		X	X

to better manage mixed batch and OLTP to business goals		
Application quiesce and update to enhance manageability and availability	X	X
Rational tooling support for Java batch programming model	X	X
Nondisruptive batch application update and endpoint quiesce	X	X
Disaster recovery with operational state transfer	X	X
Integration with WebSphere Virtual Enterprise for goal-oriented job placement	X	X
Support for WebSphere Application Server V8.0		X
Support for multithreading within a single JVM to improve performance of batch jobs		X
Improved administrative security for group-based security authorization in addition to role authorization for job management		X
Job log enhancements and job console enhancements for operational efficiency and ease of application troubleshooting		X
OSGi application support		X
Ability to customize Job Management Console		X
Unified installation across distributed and z/OS operating systems based on Installation Manager		X

Accessibility by people with disabilities

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

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

Section 508 of the US Rehabilitation Act

WebSphere Extended Deployment Compute Grid V8.0 is capable as of June 15, 2011, 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.

Product positioning

WebSphere Extended Deployment Compute Grid V8.0, in combination with WebSphere Application Server, offers multiple configuration options and support for multiple business models and deployment platforms. It also supports a wide range of scenarios, from open-source projects with no up-front budget, to simple administration of a single-server environment, to a clustered, highly available, high-volume environment with edge-of-network services.

WebSphere Application Server V7.0 Feature Pack for Modern Batch and WebSphere Application Server V8.0

With WebSphere Application Server V7 Feature Pack for Modern Batch, IBM introduced a batch programming model and batch container services support in a standardized WebSphere integrated fashion. Support for a batch programming model and batch container services is now integrated with WebSphere Application Server V8.0.

The potential benefits of this feature pack include:

- Improved developer efficiency by introducing innovation in processing large volumes of data
- Improved developer productivity with the ability to share services between OLTP and batch applications, leveraging Java skill sets
- Improved IT productivity with container-managed services for checkpoint and restart in addition to reliable, highly available, secure, and scalable run time

Key capabilities of this feature include:

- Pre-integrated application framework, Java batch programming model, and tools to improve developer productivity during the batch application life cycle
- Container-managed services for checkpoint and restart capabilities of batch workloads to minimize manual intervention and total cost of ownership
- Integrated administration of OLTP applications and batch jobs and integration with the WebSphere Administrative Console to reuse administrator skills and lower costs
- Reduced infrastructure costs through concurrent execution of batch and OLTP workloads using shared business logic on a shared WebSphere Application Server infrastructure

WebSphere Extended Deployment Compute Grid V8.0 is IBM's comprehensive batch platform. It includes all of the capabilities and benefits of the Feature Pack for Modern Batch. In addition to the features and functions provided by this feature pack, WebSphere Extended Deployment Compute Grid provides enterprise-strength functionality for enterprise Java batch management, such as:

- Calendar and clock scheduling of jobs
- Integration with enterprise scheduler
- Usage reporting with SMF records
- Workload management transaction classification by job
- Application quiesce and update
- Job pacing and job execution throttling
- Parallel job management and dispatching
- COBOL container support

Clients who need these additional qualities of service can migrate their applications developed using the Modern Batch programming model V8.0 to WebSphere Extended Deployment Compute Grid V8.0 without making any application changes.

Batch modernization

Batch modernization is about bringing business processes and data together in the context of business efficiency. Batch is a workload pattern where work is data intensive and business logic is repetitive. Automating work can quickly bring efficiencies of bulk processing to a business bottom line. These workloads are processed during a dedicated time window, also known as "batch window." During this batch window, all IT resources are taken offline and not available for business processes until all batch jobs are completed. Today's globally integrated business requires 24x7 uptime of IT resources for OLTP processes, but this "batch window" paradigm cannot support the 24x7 always-on uptime requirement for OLTP applications. To address this issue, IBM has created an architectural framework that

provides a platform for meaningful integration between OLTP and batch applications. This approach allows continuous batch execution using shared business logic on a shared infrastructure between batch and OLTP applications without impacting response time requirements for OLTP applications.

WebSphere Extended Deployment Compute Grid is an integral part of this architectural framework, offering a consistent and systematic integration strategy across multiple components of your business. Use of WebSphere Extended Deployment Compute Grid for batch modernization enables continuous batch processing, enables SOA transformation through reuse of services, leverages in-house Java skills for batch modernization projects, helps reduce cost through use of specialty processors, and helps improve hardware efficiency by utilizing unused capacity during OLTP processing for batch windows.

Program number

Program number	VRM	Program name
5725-C93	v8.0.0	webSphere Extended Deployment Compute Grid

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Publications

No hardcopy publications are shipped with this program.

The latest product documentation for WebSphere Extended Deployment Compute Grid V8.0 can be found in the online information center on the Library web page at

http://www14.software.ibm.com/webapp/wsbroker/redirect?version=compgrid8&product=was-nd-mp&topic=cg80_library

Help for the administrative console and the job management console is shipped with the product.

Technical information

Specified operating environment

Hardware requirements

AIX®

For AIX (32-bit WebSphere Compute Grid)

- IBM Power® family of processors supported by the corresponding release of AIX
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB of physical memory recommended

HP-UX

For HP-UX (64-bit WebSphere Compute Grid)

- Intel® Itanium® 2 processor
- Intel Itanium processor 9300 Series
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB of physical memory recommended

Linux®

For Linux (32-bit WebSphere Compute Grid)

- Intel Pentium® IV or later processor at 1.2 GHz, or faster
- Intel x86-64 or AMD x86-64 processor at 1.2 GHz, or faster
- IBM Power family of processors supported by the Linux distribution
- Any zSeries® systems supported by the required Linux operating systems
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB of physical memory recommended

For Linux (64-bit WebSphere Compute Grid)

- Intel x86-64 or AMD x86-64 processor (64-bit kernel support only)
- IBM Power family of processors supported by the Linux distribution
- Any System z® systems supported by the required Linux operating systems
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB of physical memory recommended

Solaris

For Solaris (32-bit WebSphere Compute Grid)

- Oracle Solaris operating environment compatible SPARC workstation at 1.0 GHz, or faster
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB physical memory

For Solaris (64-bit WebSphere Compute Grid)

- Oracle Solaris operating environment compatible SPARC workstation at 1.0 GHz, or faster
- Intel x86-64 or AMD x86-64 processor at 1.2 GHz, or faster
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB of physical memory recommended

Windows®

For Windows (32-bit WebSphere Compute Grid)

- Intel Pentium IV or later processor at 1.2 GHz, or faster
- Intel x86-64 or AMD x86-64 processor at 1.2 GHz, or faster
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB of physical memory

For Windows (64-bit WebSphere Compute Grid)

- Intel x86-64 or AMD x86-64 processor at 1.2 GHz or faster
- Minimum 2 GB (web installation) to 5 GB (local installation) of available disk space
- Minimum 1 GB of physical memory recommended

Software requirements

Application servers

- WebSphere Application Server Network Deployment V7.0.0.15 and future fix packs
- WebSphere Application Server Network Deployment V8.0 and future releases, modification levels, and fix packs

Operating system support for WebSphere Extended Deployment V8.0

- AIX 7.1 POWER System (64-bit)
- AIX 6.1 POWER System (64-bit)
- HP-UX 11i v3 IA64 (64-bit)
- HP-UX 11i v2 IA64 (64-bit)
- SUSE Linux Enterprise Desktop (SLED) 10.0 SP3 x86-64 (64-bit)
- SUSE Linux Enterprise Desktop (SLED) 10.0 SP3 x86-32 (32-bit)
- Red Hat Enterprise Linux (RHEL) 5.0 Update 6 Advanced Platform POWER System (64-bit)
- Red Hat Enterprise Linux (RHEL) 5.0 Update 6 Desktop editions x86-64 (32-bit)
- SUSE Linux Enterprise Server (SLES) 10.0 SP3 x86-64 (32-, 64-bit)
- Red Hat Enterprise Linux (RHEL) 5.0 Update 6 Advanced Platform x86-64 (32-bit)
- SUSE Linux Enterprise Server (SLES) 10.0 SP3 x86-32 (32-bit)
- Red Hat Enterprise Linux (RHEL) 5.0 Update 6 Advanced Platform System z (31-bit)
- SUSE Linux Enterprise Server (SLES) 10.0 SP3 POWER System (32-, 64-bit)
- Red Hat Enterprise Linux (RHEL) 5.0 Update 6 Advanced Platform x86-32 (32-bit)
- SUSE Linux Enterprise Server (SLES) 10.0 SP3 System z (31- and 64-bit)
- Red Hat Enterprise Linux (RHEL) 5.0 Update 6 Desktop editions x86-32 (32-bit)
- SUSE Linux Enterprise Desktop (SLED) 11.0 x86-32 (32-bit)
- SUSE Linux Enterprise Desktop (SLED) 11.0 x86-64 (32-bit)
- SUSE Linux Enterprise Server (SLES) 11.0 x86-64 (32- and 64-bit)
- SUSE Linux Enterprise Server (SLES) 11.0 x86-32 (32-bit)
- SUSE Linux Enterprise Server (SLES) 11.0 System z (64-bit)
- SUSE Linux Enterprise Server (SLES) 11.0 POWER System (64-bit)
- Red Hat Enterprise Linux (RHEL) 6.0 AS/ES x86-64 (32- and 64-bit)
- Red Hat Enterprise Linux (RHEL) 6.0 AS/ES x86-32 (32-bit)
- Red Hat Enterprise Linux (RHEL) 6.0 AS/ES System z (64-bit)
- Red Hat Enterprise Linux (RHEL) 6.0 AS/ES POWER System (64-bit)
- Solaris 10 x86-64 (64-bit)
- Solaris 10 SPARC (32- and 64-bit)
- Windows Server 2008 R2 Standard Edition x86-64 (32- and 64-bit)
- Windows Server 2008 R2 Enterprise Edition x86-64 (32- and 64-bit)
- Windows Server 2008 R2 Datacenter Edition x86-64 (32- and 64-bit)
- Windows 7 Ultimate x86-64 (32-bit) ¹

- Windows 7 Ultimate x86-32 (32-bit) ¹
- Windows 7 Enterprise x86-64 (32-bit) ¹
- Windows 7 Enterprise x86-32 (32-bit) ¹
- Windows 7 Professional x86-64 (32-bit) ¹
- Windows 7 Professional x86-32 (32-bit) ¹
- Windows Server 2003 R2 SP2 Enterprise Edition x86-64 (32-, 64-bit) ²
- Windows Server 2003 R2 SP2 Standard Edition x86-32 (32-bit) ²
- Windows Server 2008 Enterprise Edition x86-64 (32-, 64-bit)
- Windows Server 2003 R2 SP2 Standard Edition x86-64 (32-, 64-bit) ²
- Windows Server 2008 Datacenter Edition x86-64 (32-, 64-bit)
- Windows Server 2003 SP2 Datacenter Edition x86-32 (32-bit) ²
- Windows Server 2008 Standard Edition x86-64 (32- and 64-bit)
- Windows Server 2003 R2 SP2 Datacenter Edition x86-64 (32- and 64-bit) ²
- Windows Server 2008 Datacenter Edition x86-32 (32-bit)
- Windows XP SP3 Professional x86-64 (32-bit) ³
- Windows Server 2008 Enterprise Edition x86-32 (32-bit)
- Windows Server 2003 SP2 Enterprise Edition x86-32 (32-bit) ²
- Windows Server 2008 Standard Edition x86-32 (32-bit)
- Windows XP SP3 Professional x86-32 (32-bit) ³
- Windows Vista Ultimate x86-32 (32-bit) ¹
- Windows Server 2003 R2 SP2 Datacenter Edition x86-32 (32-bit) ²
- Windows Vista Enterprise x86-32 (32-bit) ¹
- Windows Server 2003 SP2 Datacenter Edition x86-64 (32- and 64-bit) ²
- Windows Vista Business x86-32 (32-bit) ¹
- Windows Server 2003 SP2 Standard Edition x86-32 (32-bit) ²
- Windows Server 2003 SP2 Standard Edition x86-64 (32- and 64-bit) ²
- Windows Server 2003 R2 SP2 Enterprise Edition x86-32 (32-bit) ²
- Windows Server 2003 SP2 Enterprise Edition x86-64 (32- and 64-bit) ²

Note:

¹ Server supported for application design, development, and testing; no support for production use.

² You are responsible for securing separate support for this operating system from Microsoft® should IBM Support believe that the behavior of Microsoft Windows Server 2003 is contributing to the reported problem.

³ Server supported for application design, development, and testing; no support for production use. You are responsible for securing separate support for this operating system from Microsoft should IBM Support believe that the behavior of Microsoft Windows XP is contributing to the reported problem.

Collaboration

- IBM Tivoli® Workload Scheduler 8.3 and future releases, modification level, and fix packs

Virtualization

- VMware ESXi V4.0 and future releases, modification levels, and fix packs
- IBM z/VM® Hypervisor™ V6.1 and future releases, modification levels, and fix packs
- IBM PR/SM™ any version and future releases, modification levels, and fix packs

- IBM PowerVM™ Hypervisor (LPAR, DPAR, Micro-Partition) any supported version
- Live Application Mobility (LAM) for Workload Partition (WPAR) AIX V6.1 and future releases, modification levels, and fix packs
- Application Workload Partition (WPAR) AIX V6.1 and future releases, modification levels, and fix packs
- VMware ESX V4.0 and future releases, modification levels, and fix packs

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

Packaging for WebSphere Extended Deployment Compute Grid V8.0 consists of:

- WebSphere Extended Deployment Compute Grid V8.0 DVD

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.

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.

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, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

This product is available only via Passport Advantage. It is not available as shrinkwrap.

Product group: webSphere
Product Identifier Description (PID)
webSphere Extended Deployment Compute Grid 5725-C93

Product category: Application Integration Middleware Other

Charge metric

Program name	Part number or PID number	Charge metric
WebSphere Extended Deployment Compute Grid V8.0	5725-C93	Processor Value Unit

Processor Value Unit

Processor Value Unit (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 site 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. A dual-core processor chip, for example, has two processor cores.

http://www-01.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

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 (see web page below). If using Full Capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores⁴ 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 at

http://www-01.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html

⁴ 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.

Note: 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.

Note: 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.

Note: 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.

Note: Express® and Workgroup programs may be licensed with maximum use terms. In that case, the following applies: The maximum authorized use terms and conditions for PVU licensed IBM Express and Middleware Programs can be found in the *IBM Express and Middleware Licensing Guide*.

Passport Advantage

Program name/Description	Part number
WebSphere Extended Deployment Compute Grid	
Per Processor Value Unit	
License + SW Subscription & Support 12 Months	D59Y6LL
Annual SW Subscription & Support Renewal	E035ZLL
SW Subscription & Support Reinstatement 12 Months	D59Y7LL

Passport Advantage trade up

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade up part number.

Precursor product	Trade up product	Trade up part number
Qualified Competitor	WebSphere Extended Deployment Compute Grid v8.0	D0ILALL

Consult your IBM representative if you have any questions.

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Media packs description	Part number
IBM WebSphere Extended Deployment Compute Grid v8.0 for Multiplatform DVD Media Pack	BA10UML

Cross-platform product for use on System z Integrated Facility for Linux (IFL) engines

Order the part numbers that follow when the product is intended to run on the Linux operating system on System z IFL engines. If the product is not intended to run on the Linux operating system on System z IFL engines, 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.

Program name/Description	Part number
WebSphere Extended Deployment Compute Grid	
Per Processor Value Unit	
zEnterprise BladeCenter® Extension (zBX) and Linux on System z License + SW Subscription & Support 12 Months	D59Y8LL
zEnterprise BladeCenter Extension (zBX) and Linux on System z Annual SW Subscription & Support Renewal	E0360LL
zEnterprise BladeCenter Extension (zBX) and Linux on System z SW Subscription & Support Reinstatement 12 Months	D59Y9LL

On/Off Capacity on Demand (CoD)

Part number	Description
D60QXLL	WebSphere Extended Deployment Compute Grid per processor day On/Off CoD temp use charge

Processor Value Unit (PVU) sub-capacity licensing

This software product is eligible for sub-capacity licensing. Customers must accept the terms of the IBM International Passport Advantage Agreement Attachment for Sub-Capacity Licensing Terms (Attachment), and must obtain PVU Proofs of Entitlement (PoEs) for the maximum processor core capacity available to an eligible sub-capacity product when deployed in an eligible virtualization environment. This is also referred to as sub-capacity or virtualization capacity licensing.

Customers must use the IBM License Metric Tool unless they meet the exceptions described in the Attachment.

For information regarding PVU sub-capacity licensing, including terms and IBM License Metric Tool ordering information, visit

<http://www-01.ibm.com/software/lotus/passportadvantage/subcaplicensing.html>

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 IBM Agreement for Acquisition of Software Maintenance.

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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.

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 form number

License Information form number: L-STHN-8EYJXP

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

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

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

Program technical support

Technical support of a program product version or release will be available for a minimum of five 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 (via 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, via 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, and through the Passport Advantage website at

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

Usage restriction

Yes

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No

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Not applicable

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