



IBMDB2 pureScale Feature for Enterprise Server Edition brings clustering technology to DB2 on distributed platforms

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At a glance

DB2® pureScale Feature for Enterprise Server Edition delivers:

- Enhanced availability for databases on distributed platforms
- Enhanced scalability for databases on distributed platforms
- Tools to simplify configuration and administration

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

Overview

DB2 pureScale Feature introduces clustering technology to DB2 on distributed platforms, so you can deploy continuously available and scalable database clusters. By allowing the database to continue processing through most planned and unplanned outages, it helps improve the availability of DB2. It supports higher transaction rates by letting you 'grow your business' to meet the most demanding business needs. This feature additionally delivers the necessary tools to easily and flexibly administer databases.

DB2 pureScale Feature is available to customers who have licensed DB2 9.7 Enterprise Server Edition.

Key prerequisites

- IBMDB2 9.7 Enterprise Server Edition
- IBMPower 595 or IBMPower 550 Express, running AIX®

Planned availability date

- December 11, 2009 (electronic software delivery)
- January 15, 2010 (media and documentation)

Description

This new DB2 feature brings clustering technology to DB2 on distributed platforms. It helps you to meet your business needs around availability and scalability, and at the same time, it is easy to configure and administer.

By combining the extensive features of DB2 with DB2 pureScale Feature, availability and scalability and Power® System dependability and flexibility, the result is a comprehensive data management solution that helps you meet the most demanding business needs.

DB2 pureScale Feature is designed to keep your critical data available during both planned and unplanned outages.

For planned outages, where you are performing maintenance on your cluster, you can do rolling maintenance on individual members without affecting the availability of the cluster.

For unplanned outages, where a member of the cluster fails due to hardware or software reasons, DB2 pureScale Feature is designed to allow the cluster, with its remaining members, to continue to function with minimal interruption to your application or business.

DB2 pureScale Feature lets you to add members to the cluster and remove them from the cluster on demand. Scale-up or scale-down the cluster to meet your dynamic business needs.

DB2 pureScale Feature for Enterprise Server Edition, developed with ease of use in mind, has a single installation process for all the software components.

Section 508 of the U.S. Rehabilitation Act

DB2 pureScale Feature is capable as of January 15, 2010, when used in accordance with the IBM associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following Web site

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

Program number

Program number	VRM	Program name
5724-Y69	9.8.0	IBMDB2 pureScale Feature for Enterprise Server Edition

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training Web site

<http://www.ibm.com/services/learning/>

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

No hardcopy publications are shipped with this product.

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Technical information

Specified operating environment

Hardware requirements

DB2 pureScale Feature for Enterprise Server Edition leverages IBM Power Systems technology. Supported system platforms are either the IBM Power 550 Express or IBM Power 595, running on the AIX platform. InfiniBand GX Dual-Port adapter cards are required to interconnect the nodes in the cluster. All communication options are supported into the cluster from outside the cluster.

Power 550 Express

The Power 550 mid-range server provides customers with a flexible and durable server that will help manage growth, complexity, and risk by delivering outstanding price/performance, mainframe-inspired reliability and availability features, and flexible capacity upgrades. The modular system offers resource optimization, secure and dependable performance, and the flexibility to change with business needs.

The Power 550 is designed with POWER6™ processors, resulting in price and performance and energy-efficient advantages. In addition, Power 550 servers are designed with EnergyScale™ capabilities to help improve energy efficiency and potentially save energy costs.

For InfiniBand connectivity the following adapters are required:

- GX Dual-port 12x Channel Attach (#5608)
- GX Dual-port 12x Channel Attach (#5609)

Power 595

The Power 595 server is designed to help enterprises deploy cost-effective and flexible Dynamic Infrastructure® while achieving exceptional application performance and increasing the speed of deployment of new applications and services. As the most powerful member of the IBM Power Systems family, this

server provides exceptional performance, massive scalability, and energy-efficient processing for a full range of complex, mission-critical applications with the most demanding computing requirements.

Equipped with 5.0 GHz or 4.2 GHz ultra-high frequency POWER6 processors, the Power 595 server can be deployed in 8- to 64-core multiprocessing (SMP) configurations. With up to 4 TB of buffered DDR2 memory and extensive I/O support, the Power 595 server can scale rapidly and seamlessly to address the changing needs of today's datacenter.

For InfiniBand connectivity the GX Dual-port 12x HCA (#1816) is required.

Software requirements

DB2 pureScale Feature for Enterprise Server Edition requires IBMAIX V6.1, the UNIX® operating system for mission-critical workloads.

The specific operating system requirements

AIX V6.1 TL3

AIX V6.1 is the UNIX operating system for mission-critical workloads. AIX V6.1 features include:

- Workload partitions -- Software-based virtualization 64-bit kernel for higher scalability and performance
- Live Application Mobility with the IBMWorkload Partitions Manager for AIX
- Dynamic logical partitioning and micro-partitioning
- Enterprise Security features such as Role Based Access Control, Secure AIX for MultiLevel security, and the AIX Security Expert
- Online addition or removal of processors, memory, and I/O resources

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 are supplied only in the English language.

Planning information

Customer responsibilities

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 (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license 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.

Packaging

IBMDB2 pureScale Feature for Enterprise Server Edition

Media:

- Overriding hardcopy license
- DB2 pureScale Feature DVD (English only)

Security, auditability, and control

DB2 pureScale Feature uses the security and auditability features of the host hardware or software.

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

Product information

Licensed function title	Product group	Product category
IBM DB2 pureScale Feature ESE	IBMDatabase 2	DB2
Program name	PID number	Charge unit description
IBM DB2 pureScale Feature ESE	5724-Y69	Per Processor Value Unit (PVU)
IBM DB2 pureScale Feature ESE	5724-Y69	Per Authorized User
IBM DB2 pureScale Feature ESE	5724-Y69	PROCESSOR-Day

Charge metrics definitions

Processor Value Unit (PVU)

PVU is a unit of measure by which the Program can be licensed. PVU entitlements are based on processor technology (defined within the PVU table¹ by processor vendor, brand, type and model number). IBM defines a processor, for purposes of PVU-based licensing, to be each processor core on a chip. Each software product has a unique price per PVU. To determine the total cost of deploying an individual software product in a specific hardware environment, you must take the following steps:

1. For each processor core in the hardware environment on which the software product is to be licensed, determine the PVU requirement based on its processor technology per the PVU table¹
2. Add the the PVU requirements for all processor cores in the hardware environment.
3. Multiply the software product's price per PVU by the total number of PVUs required as determined in step 2 above.

PVU entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with PVU entitlements of another software product.

Unless the program and Your environment are each eligible for sub-capacity licensing according to the IBM International Passport Advantage Agreement Attachment for Sub-Capacity Licensing Terms (the "Attachment")², you must obtain PVU Proofs of Entitlement (PoEs) for the maximum number of activated³ physical processor cores in the hardware environment made available to or managed by the program. This is also referred to as full capacity licensing.

- 1** PVU licensing is subject to additional details and terms, including the latest PVU requirements table, described at
http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html
- 2** Passport Advantage sub-capacity licensing terms, conditions, and eligibility requirements are described at
<http://www-01.ibm.com/software/lotus/passportadvantage/subcaplicensing.html>
- 3** Activated processor cores are physical processor cores that are available for use in a server. They include processor cores that are:
 - Activated (available for use) when the server is shipped by the manufacturer, and
 - Activated subsequently through activation codes purchased from the server manufacturer by the customer

In each case regardless of whether the capacity of the processor cores can be or is limited by the customer through virtualization technologies, operating system commands, or BIOS settings.

This program is eligible for sub-capacity licensing. In order to take advantage of sub-capacity licensing, your virtualization environment must meet the eligibility requirements described in the IBM International Passport Advantage Agreement Attachment for Sub-Capacity Licensing Terms (the "Attachment"), and you must accept the terms of the attachment. You must obtain PVU PoEs for the maximum processor core capacity available to the program when deployed in an eligible virtualization environment. This is also referred to as sub-capacity or virtualization capacity licensing. You must use the IBM License Metric Tool unless they meet the exceptions described in the attachment.

Additional details regarding Passport Advantage sub-capacity licensing terms, conditions, and eligibility requirements, including the Attachment and IBM License Metric Tool ordering information, are described at

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

For general overview of PVUs for processor families (vendors and brands), go to

http://www-306.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

To calculate the exact PVU entitlements required for the program, go to

<https://www-112.ibm.com/software/howtobuy/passportadvantage/valueunitcalculator/vucalc.wss>

Authorized User

Authorized User is the unit of measure by which this program is licensed. An Authorized User is an individual (named or unnamed) within or outside of your enterprise. The program may be installed on one or more computers or servers and accessed by the number of users authorized by the Proof of Entitlement (PoE). You must have an entitlement for each Authorized User accessing the program or any program component in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means.

Passport Advantage program licenses

DB2 pureScale Feature

Part description	Part number
IBM DB2 pureScale Feature ESE	
DB2 pureScale Feature for ESE Per AU Annual SW S&S Rnw1	E0866LL
DB2 pureScale Feature for ESE Per AU Lic + SW S&S 12 Mo	D0BPYLL
DB2 pureScale Feature for ESE Per AU SW S&S Reinstate 12 Mo	D0BPZLL
DB2 pureScale Feature for ESE Per PVU Annual SW S&S Rnw1	E0867LL
DB2 pureScale Feature for ESE Per PVU Lic + SW S&S 12 Mo	D0BQ0LL
DB2 pureScale Feature for ESE Per PVU SW S&S Reinstate 12 Mo	D0BQ1LL

Passport Advantage supply

DB2 pureScale Feature V9.8.0	
DB2 pureScale Feature for ESE AIX 6 V9.8.0 DVD Media Pack E	BB135EN

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.

DB2 pureScale Feature V9.8.0

Entitled maintenance offerings description	Media packs description	Part number
DB2 pureScale Feature Enterprise Server Edition Authorized User	DB2 pureScale Feature for ESE AIX 6 V9.8.0 DVD Media Pack E	BB135EN
DB2 pureScale Feature Enterprise Server Edition Processor Value Unit	DB2 pureScale Feature for ESE AIX 6 V9.8.0 DVD Media Pack E	BB135EN

On/Off CoD

IBMDB2 pureScale Feature ESE

Part description	Part number
DB2 pureScale Feature PROCESSOR-Day Per Use-Day OOCOD	D0BQFLL

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the Program. PoEs are required for all authorized use.

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).

License Information form number

Program name	Program number	Form number
IBM DB2 pureScale Feature for Enterprise Server Edition V9.8	5724-Y69	L-VACA-7ULN8W

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

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

Limited warranty applies

Yes

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. Consult the *IBM Software Support Handbook* for further information 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 will be available for a minimum of five years from the general availability date, as long as your 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 Maintenance also provides you with access to updates, 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 programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.
- For programs acquired under any of IBM's On/Off CoD software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Authorization for use on home/Portable computer

The program may be stored on the primary machine and another machine, provided that the program is not in active use on both machines at the same time. You may not copy and use this program on another computer without paying additional license fees.

Product name

DB2 pureScale Feature No

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage Web site at

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

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

Usage restriction

Yes. For additional information refer to the License Information Document that is available on the IBM Software License Agreement Web site

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

Software Subscription and Support (Software Maintenance)

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 (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license 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.

While your Software Subscription and Support (also referred to as Software Maintenance) is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your *IBM Software Support Handbook* at

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

Software Subscription and Support (also referred to as Software Maintenance) 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, visit the Passport Advantage Web site at

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

System i Software Maintenance applies

No

Educational allowance available

Not applicable.

On/Off CoD

To be eligible for On/Off CoD pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract - Z125-6907, Amendment for iSeries® and pSeries® Temporary Capacity On Demand - Software - must be signed prior to use.

Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner, or authorized IBM Business Partner for Software ValueNet®, if applicable. Additional information is also available at

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

Business Partner information

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<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

Order now

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To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

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Mail: IBM Teleweb Customer Support
ibm.com® Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada
L3R 2Z1

Reference: YE001

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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<http://www.ibm.com/legal/us/en/>

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

<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on October 30, 2009)

The Power 550 Express section is revised.

(Corrected on October 28, 2009)

The Section 508 of the U.S. Rehabilitation Act section is revised.