



IBM solidDB V7.0 enhancements in the solidDB server ease the migration of applications from other enterprise data servers to solidDB

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At a glance

IBM® solidDB® V7.0 enhancements:

- Procedural language compatibility allows more compatibility with other databases
- Enhanced horizontal scalability capability by adding the capability to add an additional shared memory access node
- Provides application transparency
- Performance and quality enhancements

To order, contact your IBM representative, an IBM Business Partner, or the Americas Call Centers at 800-IBM-CALL.

Reference: YE001

Overview

IBM solidDB V7.0 provides an ideal platform to build in-memory, real-time, enterprise applications. Compatibility enhancements make migrating applications to solidDB V7.0 easy. Adapting to different application and deployment needs, solidDB provides powerful schema mapping and data transformation, which allows integration to most popular databases. Enhanced scalability, transparent failover, low or no administration requirements, and low resource requirements delivered by solidDB V7.0 lowers total cost of ownership.

With solidDB V7.0 universal cache feature of IBM InfoSphere® Change Data Capture V6.5 (now bundled with solidDB 7.0), you get more reliability and faster performance to transaction processing (OLTP) workloads.

IBM InfoSphere Change Data Capture V6.5 (now bundled with solidDB 7.0) brings more reliability and faster performance to transaction processing (OLTP) workloads with solidDB V7.0 universal cache feature.

IBM solidDB server compatibility

solidDB V7.0 introduces several changes and enhancements in the solidDB server that ease the migration of applications from other enterprise data servers to solidDB. The changes include:

- Support of user-defined stored SQL functions

- Support of external, C-language-based stored functions and procedures
- SQL statement and keyword updates to support syntax conventions used in other databases

The shared memory access, introduced in V7.0, increases performance and reduces response times by linking multiple applications to a dynamic library comprised of the full solidDB server code. In V7.0, transparent connectivity that offers transparent failover and load balancing to high availability applications was available over TCP/IP-based connections only. V7.0 introduces two-node shared memory access configurations, bringing transparent connectivity capabilities to shared memory access applications. Full read/write loads can now be run against both the HotStandby primary and secondary servers of the two-node shared memory access setup, facilitating active-active configurations.

Horizontal scaling allows scaling out horizontally by adding a node, which increases capacity and allows more data to be accelerated since memory is now doubled. Horizontal scaling also provides HotStandby and load balancing by ensuring that solidDB's primary node is in sync with its secondary node.

HotStandby multiprocessing scaling improvements add parallelism to the apply processing in the secondary node. This improves performance as the secondary node can now process write operations using multiple threads. Using multiple threads eliminates or minimizes throttling in the primary node that was previously caused by the apply bottleneck in the secondary node.

InfoSphere Change Data Capture V6.5 bundling

solidDB V7.0 bundles InfoSphere Change Data Capture V6.5 for all supported backend data server types. InfoSphere Change Data Capture V6.5 enhancements include improved resiliency to component failures, improved performance of refresh and apply processing, and enhanced monitoring and debugging capabilities.

Performance and usability enhancements

Symmetrical multiprocessing optimization technology adds much more efficiency because it utilizes multicore system architectures to their full potential.

Key prerequisites

Refer to the [Hardware and software requirements](#) section for details.

Planned availability date

October 31, 2011: Electronic availability

November 18, 2011: Media availability

Description

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM website

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

Section 508 of the US Rehabilitation Act

IBM solidDB is capable as of November 18, 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. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following website

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

Product positioning

solidDB V7.0 universal cache feature will provide performance improvements as an external cache for a variety of enterprise databases including DB2®, Informix®, and Oracle. New features in V 7.0 makes configuring even easier and completely transparent to the application.

Program number

Program number	VRM	Program name
5724-v17	7.0.0	IBM solidDB

Education support

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

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

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

Instructor-led course listing

Course number	Course name	Brief description
CF180	Relational Database Design	After an overview of relational concepts that are important for designing relational databases, learn about the different views of the data of the application domain and the steps included in this comprehensive relational database design methodology.

Through our customer on-site training, you can get standard or customized training to meet your requirements.

For more information on available solidDB training, refer to

<http://www-304.ibm.com/jct03001c/services/learning/ites.wss/us/en?pageType=page&c=F479061H65256U14>

Category	Code	Title
Core	DA210	solidDB Architecture
	DA220	solidDB Configuration
	DA410	solidDB Diagnostics and Troubleshooting

	DA500	solidDB In-Memory Tables
	DA200	solidDB Installation and Operation
Performance	DA430	Data Distribution with IBM solidDB
	DA420	Advanced Replication
	DA510	solidDB CarrierGrade High Availability
	DA400	solidDB Linked Libraries
		solidDB Performance

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 product.

The following publications will be available on the Internet and are shipped electronically with the solidDB products. The Internet site can be reached via

<http://publib.boulder.ibm.com/infocenter/soliddb/v7r0/index.jsp>

- IBM solidDB Quick Start Guide
- IBM solidDB Getting Started Guide
- IBM solidDB Administrator Guide
- IBM solidDB Programmer Guide
- IBM solidDB SQL Guide
- IBM solidDB High Availability User Guide
- IBM solidDB In-Memory Database User Guide
- IBM solidDB Shared Memory Access and Linked Library Access User Guide
- IBM solidDB Advanced Replication Guide
- IBM solidDB CDC Replication Guide
- InfoSphere Change Data Capture Access Server and Management Console, Installation Guide
- InfoSphere Change Data Capture Management Console, Administration Guide
- InfoSphere Change Data Capture API and Management Console Commands Reference
- InfoSphere Change Data Capture Access Server and Management Console, Installation Guide
- InfoSphere Change Data Capture Management Console, Administration Guide
- InfoSphere Change Data Capture API and Management Console Commands Reference
- InfoSphere Change Data Capture for IBM DB2 for Linux™, UNIX™ and Windows™
- InfoSphere Change Data Capture for Informix
- InfoSphere Change Data Capture for Oracle databases
- InfoSphere Change Data Capture for Oracle databases (trigger)
- InfoSphere Change Data Capture for Microsoft™ SQL Server
- InfoSphere Change Data Capture for Sybase databases

- InfoSphere Change Data Capture for DB2 for i
- InfoSphere Change Data Capture for z/OS®
- InfoSphere Change Data Capture Performance Monitoring and Tuning Guide
- InfoSphere Change Data Capture Planning and Deployment Guide
- InfoSphere Change Data Capture Troubleshooting Guide

Technical information

Specified operating environment

Hardware and software requirements

Linux

- 32-bit and 64-bit Red Hat Enterprise Linux (RHEL) 5, RHEL 6 and 64-bit SUSE Linux Enterprise Server (SLES) 10, and 11
- All systems based on Intel™ or AMD processors that are capable of running the supported Linux operating systems

Windows

- 32-bit and 64-bit Microsoft Windows Server 2008 and Windows Server 2008 R2, Microsoft Windows Standard Server, Microsoft Windows Enterprise Server, and Microsoft Windows Datacenter Editions, 32-bit and 64-bit Microsoft Windows XP Professional Edition, 32-bit and 64-bit Microsoft Windows Vista Business, Microsoft Windows Enterprise, and Microsoft Windows Ultimate editions
- All systems based on Intel or AMD processors that are capable of running the supported Windows operating systems

AIX®

- AIX V6.1 and V7.1
- IBM POWER6® 64 bit and POWER7® 64 bit

HP-UX

- HP-UX 11iv3
- HP Itanium-based 64-bit Integrity server systems

Solaris

- Solaris 10.
- 64-bit systems with UltraSPARC processors, AMD 64-bit processors, or Intel 64-bit x86 processors are required.

Memory requirements

The amount of memory required for the solidDB JDBC and ODBC clients depends on the operating system and the database applications that are running. In most cases, it should be sufficient to use the minimum memory requirements of the operating system as the minimum requirement for running the solidDB JDBC and ODBC clients.

The amount of memory required for the solidDB connector depends on the operating system and the database applications that are running. In most cases, it should be sufficient to use the minimum memory requirements for DB2 Linux, UNIX, and Windows, or Informix Dynamic Server as the minimum requirement for running the solidDB connector.

The amount of memory required for the solidDB in memory engine depends on the operating system and the database applications that are running. Memory requirements will primarily depend on the size of the database.

Disk space requirements

The minimum disk space is 10 MB for a typical installation. The actual space required will vary depending on the logging parameters selected, use of the on disk engine, and the size of the database stored on disk.

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

Customer responsibilities

Successful application operation and management of IBM products are the responsibility of the user. Examples of those responsibilities are:

- Confirming the validity of the proposed equipment and programs
- Developing appropriate system procedures
- Incorporating protective measures to safeguard the privacy of data from unauthorized modification, destruction, or disclosure
- Incorporating sufficient checkpoints, balances, and controls into the application design to satisfy accuracy, restart, and audit requirements
- Establishing adequate backup contingency plans
- Preparing adequate documentation
- Providing qualified personnel to obtain the desired results

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

IBM solidDB V7.0 Multiplatform (English only)

- IBM solidDB V7.0 Quick Start DVD
- IBM solidDB V7.0 program code DVD
- InfoSphere Change Data Capture (ISCDC) V7.0 solidDB DVD
- ISCDC V7.0 Management Console and Access Manager DVD
- ISCDC V7.0 Documentation DVD

Security, auditability, and control

The products in this announcement use the security and auditability features of the host hardware and software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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 solidDB	solidDB	solidDB
Program name	PID number	Charge unit description
IBM solidDB	5724-V17	Per Processor Value Unit (PVU)

Charge metrics definitions

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

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

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.

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 (refer to the webpage below). 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 at

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

* 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.

- 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 licenses

IBM solidDB

Part description	Part number
IBM solidDB solidDB Per Processor Value Unit (PVU) Annual SW S&S Rnwl	E04WULL
solidDB Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D0461LL
solidDB Per Processor Value Unit (PVU) SW S&S Reinstate 12 Mo	D0462LL

Passport Advantage supply

Program name/description	Part number
solidDB v7.0.0 IBM solidDB v7.0.0 Multiplatform English Media Pack	BB193EN

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.

solidDB V7.0.0

Entitled maintenance offerings description	Media packs description	Part number
solidDB per Processor Value Unit	IBM solidDB v7.0.0 Multiplatform English Media Pack	BB193EN

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Licensing

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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 solidDB	5724-V17	L-VACA-8K8NCA

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

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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 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 (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

For clarification, note that 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 for programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

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Usage restriction

Yes.

For additional information refer to the License Information Document that is available on the IBM Software License Agreement website

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

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

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Other terms**System i Software Maintenance applies**

No

Educational allowance available

Not applicable.

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The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

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>

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