



IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 delivers storage device performance monitoring for IBM midrange systems

Table of contents

1 Overview	4 Technical information
1 Key prerequisites	10 Ordering information
2 Planned availability date	14 Terms and conditions
2 Description	17 Prices
3 Program number	17 Announcement countries
4 Publications	

At a glance

IBM® Tivoli® Storage Productivity Center for Disk Midrange Edition V4.1 offers:

- Dynamic end-to-end topology viewer
- Storage Area Network (SAN)-wide asset and capacity reporting
- Performance reporting and monitoring for IBM System Storage™ DS3000, IBM System Storage DS4000™, and IBM System Storage DS5000 series devices
- Lightweight client to collect host asset, capacity, and connectivity information

Overview

IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 is designed to provide storage device configuration, performance monitoring, and management of Storage Area Network (SAN)-attached devices from a single console. In addition, it includes performance monitoring capabilities for IBM System Storage DS3000, IBM System Storage DS4000, and IBM System Storage DS5000 systems.

Tivoli Storage Productivity Center for Disk Midrange Edition V4.1:

- Offers continuous real-time monitoring and fault identification to help improve SAN availability
- Provides reporting across multiple arrays from a single console
- Helps monitor metrics such as throughput, input and output (I/O) and data rates, and cache utilization
- Receives timely alerts that can enable event action based on your policies when thresholds are exceeded
- Helps to improve storage return on investment by aiding to keep SANs reliably and dependably operational
- Can reduce storage administration costs by helping simplify the management of complex SANs

Key prerequisites

Refer to the [Technical information](#) section.

Planned availability date

- May 14, 2010: Electronic
- June 4, 2010: Media

Refer to the complete letter for national language availability.

Description

IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 is part of the IBM Tivoli Storage Productivity Center V4.1 suite of integrated storage infrastructure management products that are designed to help you manage almost every point of your storage network, between the hosts through the fabric and to the physical disks in a multi-site enterprise. It can help simplify and automate the management of storage data and the networks to which they connect.

Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 offers the same capabilities found in IBM Tivoli Storage Productivity Center Basic Edition and, in addition, performance reporting for IBM's entry level and midrange storage devices (DS3000, DS4000, and DS5000 series). Utilizing a new Storage Management Initiative - Specification (SMI-S) Common Information Model (CIM) agent, Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 helps gather performance data such as:

- Controller input and output rate (read/write/total)
- Controller data rate (read/write/total)
- Controller cache hits percentage (read/write/overall)
- Port I/O rate (read/write/total)
- Port data rate (read/write/total)

Administrators can monitor and analyze performance statistics for these storage systems down to five minute intervals. The performance data can be viewed in real time in the topology viewer, stored for historical reporting, or used to generate timely alerts by monitoring thresholds for various device parameters.

Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 is set apart from IBM Tivoli Storage Productivity Center for Disk because it is:

- Designed to support IBM's entry level and midrange storage disk products (DS3000, DS4000, and DS5000).
- Licensed per storage device, such as disk controllers and their respective expansion units.

Accessibility by people with disabilities

A U.S. 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

Availability of national languages

Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 is enabled to support all language environments and is translated into the following languages on the dates shown below.

Language	Electronic availability date	Media availability date
English, French, German, Italian, Spanish, Czech, Hungarian, Polish, Russian	May 14, 2010	June 4, 2010

Program number

Program number	VR	Program name
5725-A01	4.1	IBM Tivoli Storage Productivity Center for Disk Midrange Edition (for Passport Advantage®)
5608-E14	4.1	IBM Tivoli Storage Productivity Center for Disk Midrange Edition

Product identification number

Program PID number	SW Subscription and Support 1 year PID Registration (Reg) number	SW Subscription and Support 1 year After License (AL) PID number
5608-E14	5608-R86	5608-R87
	SW Subscription and Support 2 year Reg PID number	
	5608-R90	
	SW Subscription and Support 3 year Reg PID number	SW Subscription and Support 3 year renewal PID number
	5608-R93	5608-R88
	SW Subscription and Support 3 year AL PID number	
	5608-R89	
	SW Subscription and Support 4 year Reg PID number	
	5608-R91	
	SW Subscription and Support 5 year Reg PID number	
	5608-R92	

Education support

Comprehensive education for IBM Tivoli products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

<http://www-306.ibm.com/software/tivoli/education/>

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

The publications listed below are available in English and select translated languages and can be downloaded from the following Web site on the general availability date.

<http://publib.boulder.ibm.com/infocenter/tivihelp/v4r1/index.jsp>

Title	Order number
IBM Tivoli Storage Productivity Center User's Guide V4.1	SC27-2338
IBM Tivoli Storage Productivity Center Command-Line Interface Reference V4.1	SC27-2339
IBM Tivoli Storage Productivity Center Messages V4.1	SC27-2340
IBM Tivoli Storage Productivity Center Workflow User's Guide V4.1	SC27-2341
IBM Tivoli Storage Productivity Center Problem Determination Guide V4.1	GC27-2342
IBM Tivoli Storage Productivity Center Information Center V4.1	SC27-2343
IBM Tivoli Storage Productivity Center for Disk V4.1 Quick Start Guide V4.1	LCD7-3573

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, free of charge.

Technical information

Specified operating environment

Hardware and software requirements

Hardware and software requirements for Tivoli Storage Productivity Center for Disk Midrange Edition V4.1

For the most up-to-date information on hardware and software requirements, refer to

<http://www-03.ibm.com/systems/storage/software/center/index.html>

Supported storage devices

Supported storage devices	Recommended firmware level	SMI-S Provider
IBM System Storage DS4200	V7.6	V1.3, 10.06.GG.33
IBM System Storage DS4700	V7.6	V1.3, 10.06.GG.33
IBM System Storage DS4800	V7.6	V1.3, 10.06.GG.33
IBM System Storage DS5020	V7.6	V1.3, 10.06.GG.33
IBM System Storage DS5100	V7.6	V1.3, 10.06.GG.33
IBM System Storage DS5300	V7.6	V1.3, 10.06.GG.33
IBM System Storage DS3400	V7.35	10.50.G0.04
IBM System Storage DS4100	V6.12	10.50.G0.04
IBM System Storage DS4300	V6.60	10.50.G0.04
IBM System Storage DS4400 Turbo	V6.60	10.50.G0.04
IBM System Storage DS4400	V6.12	10.50.G0.04
IBM System Storage DS4500	V6.60	10.50.G0.04
IBM TotalStorage® FASTT 100	V6.12	10.50.G0.04
IBM TotalStorage FASTT 200	V5.30	10.50.G0.04
IBM TotalStorage FASTT 500	V5.30	10.50.G0.04
IBM TotalStorage FASTT 600	V6.60	10.50.G0.04
IBM TotalStorage FASTT 700	V6.12	10.50.G0.04
IBM TotalStorage FASTT 900	V6.60	10.50.G0.04

Note: Some previous versions of the SMI-S providers may be supported, but with reduced functionality. Visit the product's support Web site for the latest information.

The following minimum hardware and software requirements apply:

For Microsoft® Windows® and Red Hat Linux® on Intel®:

- Machine: Intel class P4/Xeon 3.2 GHz processors
- Minimum memory: 4 GB RAM
- Disk space: 40 GB disk space
- Operating systems - one of the following:
 - Windows 2003 Standard Edition (32 bit or 64 bit)
 - When using IBM DB2® V9.1 as the repository
 - Red Hat Enterprise Linux (RHEL) Advanced Server 4 (32 bit)
 - When using DB2 V9.5 as the repository
 - RHEL Advanced Server 4 (64 bit)

For IBM AIX® on IBM System i® and IBM System p®:

- Machine: POWER4™ or POWER5™ processor
- Minimum memory: 4 GB of RAM
- Disk space: 40 GB disk space
- Operating system: AIX V5.3 (32 bit or 64 bit)

Server and GUI client

For Windows and Linux on Intel:

- Machine: Intel class P4/Xeon 3.2 GHz processors
- Minimum memory: 4 GB of RAM
- Disk space: 40 GB
- Operating systems - one of the following:
 - Windows 2003 Standard Edition (32 bit) or (64 bit - compatibility mode)
 - Windows 2003 Enterprise Edition (32 bit) or (64 bit - compatibility mode)
 - Windows 2008 (all editions) (32 bit or 64 bit)
 - When using DB2 V9.1 as the repository
 - RHEL Advanced Server 4 (32 bit)

- RHEL Advanced Server 5 (32 bit)
- When using DB2 V9.5 as the repository
 - RHEL Advanced Server 4 (64 bit - compatibility mode)
 - RHEL Advanced Server 5 (64 bit - compatibility mode)

For AIX on System i and System p:

- Machine: POWER4 or POWER5 processor
- Minimum space requirement to run:
 - 4 GB of RAM
 - Approximately 40 GB of hard disk space
- Operating system:
 - AIX V5.3 (32 bit)
 - AIX V5.3 (64 bit - compatibility mode)
 - AIX V6.1

Supported Relational Database Management Systems (RDBMSs) for the Enterprise Repository:

- DB2 UDB V9.1 Fix Pack 2, or later Fix Packs
- DB2 UDB V9.5 Fix Pack 3a, or later Fix Packs

Data agent

For Windows and Linux on Intel:

- Machine: Pentium® 400 MHz processor, or above
- Minimum memory and space requirements to run:
 - 256 MB of RAM
 - Approximately 100 MB of hard disk space
- Operating systems - one of the following:
 - Windows 2003 Standard Edition (32 bit) and R2
 - Windows 2003 Standard Edition (64 bit) and R2 - (compatibility mode)
 - Windows 2003 Enterprise Edition (32 bit) and R2
 - Windows 2003 Enterprise Edition (64 bit) and R2 - (compatibility mode)
 - Windows 2008 (all editions) (32 bit)
 - Windows 2008 (all editions) (64 bit - compatibility mode)
 - RHEL Advanced Server 4.0 (32 bit) or (64 bit - compatibility mode)
 - RHEL Advanced Server 5.0 (32 bit) or (64 bit - compatibility mode)
 - SUSE Linux Enterprise Server 9 (32 bit) or (64 bit - compatibility mode)

For UNIX®:

- Machine: Minimum 400 MHz processor
- Minimum space requirement to run:
 - 256 MB of RAM
 - Approximately 100 MB of hard disk space
- Operating systems - one of the following:
 - HP-UX 11.0 (32 bit) or (64 bit - compatibility mode)
 - HP-UX 11i.1 (32 bit) or (64 bit - compatibility mode)
 - HP-UX 11i.2 (32 bit) or (64 bit - compatibility mode)
 - Solaris 9 (32 bit)

- Solaris 10 (32 bit) or (64 bit - compatibility mode)

For System i and System p:

- Machine: Minimum 400 MHz processor
- Minimum space requirement to run:
 - 256 MB of RAM
 - Approximately 100 MB of hard disk space
- Operating systems - one of the following:
 - AIX V5.3 (32 bit) or (64 bit - compatibility mode)
 - AIX V6.1 (32 bit) or (64 bit - compatibility mode)
 - RHEL Advanced Server 4.0 (32 bit) or (64 bit - compatibility mode)
 - RHEL Advanced Server 5.0 (32 bit) or (64 bit - compatibility mode)
 - SUSE Linux Enterprise Server 9 (32 bit) or (64 bit - compatibility mode)

Storage resource agent

For Windows and Linux on Intel:

- Machine: Pentium 400 MHz processor, or above
- Minimum memory and space requirements to run:
 - 256 MB of RAM
 - Approximately 100 MB of hard disk space
- Operating systems - one of the following:
 - Windows 2003 Standard Edition (32 bit) and R2
 - Windows 2003 Standard Edition (64 bit) and R2 - (compatibility mode)
 - Windows 2003 Enterprise Edition (32 bit) and R2
 - Windows 2003 Enterprise Edition (64 bit) and R2 - (compatibility mode)
 - Windows 2008 (all editions) (32 bit)
 - Windows 2008 (all editions) (64 bit - compatibility mode)
 - RHEL Advanced Server 4.0 (32 bit) or (64 bit - compatibility mode)
 - RHEL Enterprise Server 4.0 (32 bit) or (64 bit - compatibility mode)
 - RHEL Advanced Server 5.0 (32 bit) or (64 bit - compatibility mode)
 - RHEL Enterprise 5.0 (32 bit) or (64 bit - compatibility mode)
 - SUSE Linux Enterprise Server 9 (32 bit) or (64 bit - compatibility mode)
 - SUSE Linux Enterprise Server 10 (32 bit) or (64 bit - compatibility mode)

For System i and System p:

- Machine: Minimum 400 MHz processor
- Minimum space requirement to run:
 - 256 MB of RAM
 - Approximately 100 MB of hard disk space
- Operating systems - one of the following:
 - AIX V5.3 (32 bit) or (64 bit - compatibility mode)
 - AIX V6.1 (32 bit) or (64 bit - compatibility mode)
 - RHEL Advanced Server 4.0 (32 bit) or (64 bit - compatibility mode)
 - RHEL Advanced Server 5.0 (64 bit - compatibility mode)
 - SUSE Linux Enterprise Server 9 (32 bit) or (64 bit - compatibility mode)
 - SUSE Linux Enterprise Server 10 (64 bit - compatibility mode)

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

Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- DVD media
- Publications (refer to the **Publications** section)

This program, when downloaded from a Web site, 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.

Security, auditability, and control

Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 uses the security and auditability features of the operating system software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

IBM pricing

IBM pricing terminology definition

Storage device

A storage device is a unit of measure by which the Program is licensed. A storage device is an independently powered, channel attached device that stores or controls the storage of data on magnetic disks or solid state drives, such as disk controllers and their respective expansion units, each constituting separate storage devices. The licensee must obtain entitlements for every storage device which runs, uses services provided by, or otherwise accesses the Program and for every storage device on which the Program is installed. Instead of the entitlements required for the Program directly, the licensee must obtain entitlements for this Program sufficient to cover the storage devices managed by the Program.

Product and licensing Web sites

A complete list of IBM Tivoli products is available at

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

Passport Advantage

Through the Passport Advantage Agreement, you may receive discounted pricing based on your total volume of eligible products, across all IBM brands, acquired worldwide. The volume is measured by determining the total Passport Advantage points value of the applicable acquisitions. Passport Advantage points are only used for calculating the Entitled Passport Advantage discount.

Use the following two-step process to determine the total Passport Advantage points value:

1. Analyze your environment to determine the number of charge units for a product. The quantity of each product's part numbers to be ordered is determined by that analysis.
2. Order the Passport Advantage part numbers. A Passport Advantage point value, which is the same worldwide for a specific part number regardless of where the order is placed, is assigned to each IBM product part number. The Passport Advantage point value for the applicable part number, multiplied by the quantity for that part number, will determine the Passport Advantage points for that IBM product part number. The sum of these Passport Advantage points determines the Passport Advantage point value of the applicable IBM product authorizations which then may be aggregated with the point value of other applicable Passport Advantage product acquisitions to determine the total Passport Advantage points value.

The discounted pricing available through Passport Advantage is expressed in the form of Suggested Volume Prices (SVPs), which vary depending on the SVP level. Each SVP level is assigned a minimum total Passport Advantage point value, which must be achieved, in order to qualify for that SVP level.

Media packs and documentation packs do not carry Passport Advantage points and are not eligible for SVP discounting.

For additional information on Passport Advantage, refer to the following

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

The following Passport Advantage part number categories may be orderable:

- License and Software Subscription and Support 12 months - This is the product authorization with Software Subscription and Support to the first anniversary date.
- Annual Software Subscription and Support Renewal - This is the Software Subscription and Support renewal for one anniversary that applies when a customer renews their existing coverage period prior to the anniversary date at which it expires.
- Software Subscription and Support Reinstatement 12 months - This is for customers who have allowed their Software Subscription and Support to expire, and later wish to reinstate their Software Subscription and Support.
- Media packs - These are the physical media, such as CD-ROMs, that deliver the product's code.
- Documentation packs - These contain printed documentation such as the User's Guide and Release Notes.

Pricing examples

IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1

IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 is licensed per storage device.

In V4.1, the IBM DS3000, DS4000, and DS5000 series are the only storage devices supported by IBM Tivoli Storage Productivity Center for Disk Midrange Edition.

Example 1

A customer with an IBM DS5020 has one controller unit and two expansion units for a total of three storage devices based on the program's pricing metric. The customer must acquire three storage device entitlements for IBM Tivoli Storage Productivity Center for Disk Midrange Edition.

Note: The number, size, or type of drives in the controller unit or expansion unit have no bearing on the required entitlements. Controller units are counted even if they contain no drives.

Example 2

A customer with an IBM DS5100 has two controller units and six expansion units for a total of eight storage devices. The customer must acquire eight storage device entitlements for IBM Tivoli Storage Productivity Center for Disk Midrange Edition. If this customer later installed another IBM DS5100 (with two controller units and two expansion units) and that device was brought under the management of IBM Tivoli Storage Productivity Center for Disk Midrange Edition, then four additional storage device entitlements must be acquired.

Example 3

A customer with an IBM DS5300 that has two controller units and 16 expansion units, for a total of 18 storage devices, requires 18 storage device entitlements for IBM Tivoli Storage Productivity Center for Disk Midrange Edition. In addition, this customer has other storage devices not listed in the supported operating environment. Since IBM Tivoli Storage Productivity Center for Disk Midrange Edition includes the capabilities found in IBM Tivoli Storage Productivity Center Basic Edition (5608-WB1), the customer is entitled to use the features of IBM Tivoli Storage Productivity Center Basic Edition with its other devices.

Note: Performance monitoring and reporting is a key feature of IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 and the use of such management capabilities is limited to the IBM DS3000, DS4000, and DS5000 series. A broader range of device support is available with IBM Tivoli Storage Productivity Center Standard Edition (5608-WC0).

Ordering information

This IBM WorkStation Software product is being announced as a dual-pipe offering, and is available for ordering by program and feature number or by part number.

When ordering by part numbers, this product can be obtained through IBM Passport Advantage. Contact your IBM representative or IBM Business Partner Reseller and Distributors for WorkStation Software.

For more information, contact your IBM sales specialist, IBM Business Partner, or visit

<http://www-306.ibm.com/software/support/pa.html>

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

Product group: Tivoli Storage

Product category: Tivoli Storage Productivity Center

Product Identifier Descriptions	PID number
IBM Tivoli Storage Productivity Center for Disk Midrange Edition (for Passport Advantage)	5725-A01

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 pack description and entitled maintenance offerings description	Part number
IBM Tiv Storage Productivity Center for Disk Midrange Ed V4.1 Media Pack	BH03XML

Current licensees

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Important ordering note

If you only want basic function, you can order a license for IBM Tivoli Storage Productivity Center Basic Edition V4.1.

Refer to Software Announcement [ZP09-0077](#), dated April 28, 2009.

IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 includes the function of IBM Tivoli Storage Productivity Center for Basic Edition V4.1. When ordering a license for IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1, it is not necessary to order a separate license for IBM Tivoli Storage Productivity Center Basic Edition V4.1.

Ordering information for Passport Advantage

Passport Advantage allows you to have a common anniversary date for Software Subscription and Support (SW S&S) renewals, which can simplify management and budgeting for eligible new versions and releases (and related technical support) for your covered products. The anniversary date, established at the start of your Passport Advantage Agreement, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases will initially include twelve full months of Software Subscription and Support (also referred to as Software Maintenance). Software Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Subscription and Support (Software Maintenance) will renew at the common anniversary date for twelve full months of Software Subscription and Support (Software Maintenance).

Refer to the IBM International Passport Advantage Agreement and to the *IBM Software Support Handbook* for specific terms relating to, and a more complete description of, technical support provided through Software Subscription and Support (Software Maintenance).

The quantity to be specified for the Passport Advantage part numbers in the following table is per storage device. To order for Passport Advantage, specify the desired part number and quantity.

Description	Part number
IBM Tivoli Storage Productivity Center for Disk Midrange Edition	
Per storage device:	
License and SW S&S 12 Months	D0CTZLL
Annual SW S&S Renewal	E08PMLL

SW S&S Reinstatement 12 Months D0CU0LL

To order a media pack for Passport Advantage, specify the part number in the desired quantity from the following table:

Description	Part number
IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1 DVD media pack - multilingual	BH03XML

The product listed in the above table is also available via Web download from Passport Advantage.

Ordering information for non-Passport Advantage

For information about Software Subscription and Support options, contact your IBM representative.

To order a basic license, specify the program number and the feature of the desired distribution medium. Also, specify the one-time charge feature in the quantity desired.

The quantity to be specified for the feature numbers in the following table is per storage device.

Product number	Product name	Feature number Qty 1	Feature number Qty 250
5608-E14	IBM Tivoli Storage Productivity Center for Disk Midrange Edition V4.1		
	Per storage device	M3G0QE	X3G0ZE

This software license includes Software Subscription and Support (SW S&S), also referred to as Software Maintenance. Extending coverage from two to five years from date of acquisition may be elected. Renewals can be ordered for one year and three years. Order the program number, feature number, and quantity to extend coverage for your software licenses. If Software Subscription and Support has expired, specify the after license feature number.

IBM Tivoli Storage Productivity Center for Disk Midrange Edition

SW S&S PID 1 Year: 5608-R86

Description	Feature number Qty 1	Feature number Qty 250
Per storage device:		
SW S&S No Charge Registration	M3GSQF	X3GSZG
SW S&S 1 Year Renewal	M3GSQG	X3GSZH

SW S&S PID 1 Year: 5608-R87

Description	Feature number Qty 1	Feature number Qty 250
Per storage device:		
SW S&S 1 Year After License	MSGTRB	X3GT0D

SW S&S PID 2 Year: 5608-R90

Description	Feature number Qty 1	Feature number Qty 250
Per storage device:		
SW S&S 2 Year Registration	M3GWX5	X3GW81

SW S&S PID 3 Year: 5608-R93

Description	Feature number Qty 1	Feature number Qty 250
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Per storage device:
 SW S&S 3 Year Registration M3GZQH X3GZ0B

SW S&S PID 3 Year: 5608-R88

Description	Feature number	Feature number
	Qty 1	Qty 250

Per storage device:
 SW S&S 3 Year Renewal M3GURA X3GU0C

SW S&S PID 3 Year: 5608-R89

Description	Feature number	Feature number
	Qty 1	Qty 250

Per storage device:
 SW S&S 3 Year After License M3GVRC X3GV0E

SW S&S PID 4 Year: 5608-R91

Description	Feature number	Feature number
	Qty 1	Qty 250

Per storage device:
 SW S&S 4 Year Registration M3GXX7 X3GX8G

SW S&S PID 5 Year: 5608-R92

Description	Feature number	Feature number
	Qty 1	Qty 250

Per storage device:
 SW S&S 5 Year Registration M3GYX6 X3GY8H

Subscription and Support

Subscription and Support must be ordered to receive voice technical support via telephone during normal business hours, and future releases and versions, at no additional charge. The capacity of Subscription and Support (for example, number of servers or storage devices) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number the appropriate license or charge option.

IBM is providing Subscription and Support for this product, via a separately purchased offering, under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

Basic machine-readable material

To order, select the distribution medium feature number for program number 5608-E14.

Feature number	Language	Distribution medium
5809	Multilingual	DVD

Terms and conditions

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

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

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).

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support (also referred to as Software Maintenance) and does not require customer signatures.

This program is 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. This program has 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

L-JTUR-82ZNZA

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

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 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, 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.

Authorization for use on home/portable computer

You may not copy and use this program on another computer without paying additional license fees.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

Passport Advantage applies

Yes, and through the Passport Advantage Web site at

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

Usage restriction

Yes. Usage is limited to the quantity of storage devices licensed.

For additional information, refer to the License Information document that is available on the IBM Software License Agreement Web site

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Software Subscription and Support (Software Maintenance) applies

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Software Subscription and Support (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 this agreement.

For additional information about the Passport Advantage Agreement, visit the Passport Advantage Web site at

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Variable charges apply

No

Educational allowance available

Yes. When ordering through the program number process, a 15% education allowance applies to qualified education institution customers.

Education software allowance program applies when ordering through the program number process.

For the part number ordering process, special education prices are available for qualified customers through Passport Advantage.

ESAP available

Yes, to qualified customers.

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Prices

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Passport Advantage

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