IBM TotalStorage Productivity Center for Replication V3.1 supports: FlashCopy, Metro Mirror, and Global Mirror for IBM System Storage DS6000, DS8000, ESS Model 800; FlashCopy and Metro Mirror for SVC

Overview

The IBM TotalStorage® Productivity Center for Replication V3.1 is designed to manage the advanced copy services provided by IBM Enterprise Storage Server™ (ESS) Model 800, IBM System Storage™ DS8000, IBM System Storage DS6000 and IBM SAN Volume Controller (SVC). It is available in two complementary packages.

IBM TotalStorage Productivity Center for Replication V3.1 offers the following basic functions:

- Provide management of the advanced copy services capabilities for the IBM ESS Model 800, IBM DS8000, IBM DS6000, and IBM SVC. FlashCopy®, Metro Mirror, and Global mirror support (global mirror is supported for ESS, DS8000, DS6000 only) with a focus on automating administration and configuration of these services, operational control (starting, suspending, resuming) of copy services tasks, and monitoring and managing the copy sessions.

- Extend support for ESS Model 800 by providing management support for Global Mirror feature.

- Monitor the progress of the copy services so customers can verify the amount of replication that has been done as well as the amount of time required to complete the replication operation.

New tier pricing

IBM TotalStorage Productivity Center for Replication and IBM TotalStorage Productivity Center for Replication Two Site BC use a new capacity pricing model. The new model consists of six tiers, which are to be used cumulatively. All tiers must be used, in order, to get to the desired total amount of terabytes (TBs). This model will help ease the pricing for larger environments or as your environment grows. Refer to the Pricing examples section for more specifics.

Key prerequisites

Refer to the Hardware and software requirements section.

At a glance

IBM Total Storage Productivity Center for Replication V3.1 provides:

- Continued support for advanced copy services (FlashCopy and Metro Mirror) on the IBM TotalStorage Enterprise Storage Server (ESS) Model 800 and IBM SAN Volume Controller (SVC)

- Extended support for advanced copy services (FlashCopy and Metro Mirror) on the IBM System Storage DS8000 and IBM System Storage DS6000

- Extended support for Global Mirror on the ESS Model 800, DS8000, and DS6000

- Monitoring of the progress of copy services on the ESS Model 800, DS8000, DS6000, and SVC

IBM TotalStorage Productivity Center for Replication Two Site BC V3.1 is designed to aid Business Continuity by providing:

- Implementation of disaster recovery solutions for ESS Model 800, DS8000, and DS6000 with failover and failback from primary to a disaster recovery site

- Support for IBM TotalStorage Productivity Center for Replication high-availability server configuration

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at 800-IBM-CALL

Reference: YE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
July 14, 2006: Media general availability via Passport and execute administrator tasks against these sessions. Forwarded on to an enterprise management application, receive events for exceptions (via SNMP) that can be session pairings, determine the status of the sessions, designed to allow the storage administrator to view the Productivity Center for Replication also provides support automated source to target matching. IBM TotalStorage designed to add support for the DS6000 and DS8000 to TotalStorage Productivity Center for Replication is functions available from the storage array. IBM provide management support for the advanced copy services. IBM TotalStorage Productivity Center for Replication Two Site BC V3.1 support for management of IBM System Storage DS8000 and IBM System Storage DS6000 Metro Mirror, Global Mirror, and FlashCopy advance functions is planned for 2006.

It is IBM’s current plan to introduce a tiered pricing model for other products that are part of the IBM TotalStorage Productivity Center family of products, within one year from this announcement. Such products include IBM TotalStorage Productivity Center Standard Edition, IBM TotalStorage Productivity Center for Data, IBM TotalStorage Productivity Center for Fabric, and IBM TotalStorage Productivity Center for Fabric.

All statements regarding IBM’s plans, directions, and intent are subject to change or withdrawal without notice.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on the products accessibility compliance can be requested via IBM’s Web site


Product positioning

IBM TotalStorage Productivity Center for Replication V3.1 provides administration and management for the advanced copy services for the ESS Model 800, DS6000, DS8000, and SVC. If you have purchased these features, you should consider IBM TotalStorage Productivity Center for Replication V3.1 to provide simplified and automated administration, operation, and management of these advanced copy services.

IBM TotalStorage Productivity Center for Replication Two Site BC V3.1 provides disaster recovery management for ESS Model 800, DS6000, and DS8000 customers. If you are looking for a Business Continuity solution for storage site switching, planned as well as unplanned, you should consider IBM TotalStorage Productivity Center for Replication Two Site BC V3.1. If you are using the eRCMF or GMU service offerings for a two-site solution, you should consider IBM TotalStorage Productivity Center for Replication Two Site BC V3.1.

Reference information

Refer to Software Announcement 205-203, dated August 30, 2005.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 206-124


Trademarks

Enterprise Storage Server and System Storage are trademarks of International Business Machines Corporation in the United States or other countries or both. TotalStorage, FlashCopy, Requisite, Passport Advantage, and z/OS are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.
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 Web site


The following class will be available after August 14, 2006:

- IBM TotalStorage® Productivity Center for Replication V3.1 (4 hour Web-based training)

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 publications are shipped with these programs.

The following publications can be ordered after July 14, 2006:

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM TotalStorage Productivity Center for Replication V3.1 Installation and Configuration Guide</td>
<td>SC32-0102</td>
</tr>
<tr>
<td>IBM TotalStorage Productivity Center for Replication V3.1 User’s Guide</td>
<td>SC32-0103</td>
</tr>
<tr>
<td>IBM TotalStorage Productivity Center for Replication V3.1 Command-Line Interface User’s Guide</td>
<td>SC32-0104</td>
</tr>
</tbody>
</table>

The following CD can be ordered after August 11, 2006:

- IBM TotalStorage Productivity Center for Replication V3.1 Information Center (CD-ROM) (SK4T-2408)

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.

News of many publications may be subscribed to via Mysupport.


Technical information

Specified operating environment

Hardware and software requirements

This section lists the hardware and software required to install and run IBM TotalStorage Productivity Center for Replication and IBM TotalStorage Productivity Center for Replication Two Site BC.

Server

For Windows™ and Linux™ on Intel®:

- Machine: 1.5 GHz Intel Pentium® III processor, or greater
- Minimum memory and space requirements to run:
  - Memory: 2 GB RAM
  - Disk: 10 GB free disk space — required for installation of IBM TotalStorage Productivity Center for Replication application code and data with the WebSphere® Express Application Server code

- Additional hardware requirements
  - Advanced Copy features on ESS Model 800, DS8000, DS6000
- Operating systems — one of the following:
  - Windows 2003 Server Edition
  - Windows 2003 Enterprise Edition
  - Red Hat Enterprise Linux 4 AS
  - SUSE Linux Enterprise Server 9
- For IBM TotalStorage Productivity Center for Replication Two Site BC:
  - IBM TotalStorage Productivity Center for Replication V3.1

For AIX®:

- Machine: pServer, IBM POWER4™, or IBM POWER5™ processor, 1 GHz
- Minimum memory and space requirements to run:
  - Memory: 2 GB RAM

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
- Operating system performance will vary depending upon a customer's particular configuration and customization.

- IBM TotalStorage Productivity Center for Replication Two Site BC
- IBM TotalStorage Productivity Center for Replication Two Site BC is distributed with:
  - Product CD-ROMs
  - IBM TotalStorage Productivity Center for Replication V3.1 Quick Start CD-ROM, including English publications (LK4T-2409)
  - IBM TotalStorage Productivity Center for Replication V3.1 Quick Start Guide (in English, French, and Japanese) (GC32-0105)

IBM TotalStorage Productivity Center for Replication Two Site BC is distributed with:

- Product CD-ROMs
- IBM TotalStorage Productivity Center for Replication V3.1 Two Site BC Quick Start CD-ROM, including English publications (LK4T-2410)
- IBM TotalStorage Productivity Center for Replication V3.1 Two Site BC Quick Start Guide (in English, French, and Japanese) (GC32-0106)

The products include portions of DB2, WebSphere Application Server, and other IBM products. You are authorized to install them only in association with your licensed use of the Programs and not for any other purpose. Refer to the Quick Start publication or License Information for more details.

**Security, auditability, and control**

IBM TotalStorage Productivity Center for Replication and IBM TotalStorage Productivity Center for Replication Two Site BC use 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.

**Services**

IBM Global Technology Services

New demands for information and data, coupled with escalating IT management costs and a shortage of professionals skilled in the implementation of emerging technologies, are driving the need for more efficient server and storage infrastructures. IBM can assist you in deploying DS6000/DS8000, TotalStorage Productivity Center, and SAN Volume Controller solutions. IBM Global Services has the right knowledge and expertise to reduce your system and data migration workload, as well as the time, money, and resources needed to achieve a totally system-managed environment. We are here to help.

For more information, contact your IBM representative, IBM Business Partner, or visit http://ibm.com/services/

For details on available services, contact your IBM representative or visit http://www.ibm.com/services/

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit http://www.ibm.com/services/continuity

For details on education offerings related to specific products, visit http://www.ibm.com/services/learning/index.html

Select your country, and then select the product as the category.

**IBM Tivoli Enhanced Value-Based Pricing**

The IBM TotalStorage Productivity Center products are priced using a managed-environment approach whereby price is determined by the amount of storage capacity under management rather than the number and type of product components installed.

This licensing model can provide the customer flexibility to deploy these software products within its environment in a manner that can address and respond to the customer’s evolving architecture. That is, as the architecture of a customer’s environment changes, the customer’s implementation of these products can be altered as needed without affecting the customer’s license requirements (as long as the customer does not exceed its entitlements to the software).
Value-Based Pricing terminology definitions

IBM TotalStorage Productivity Center terabyte (TB) capacity

A terabyte capacity is each individual terabyte of storage capacity managed by the IBM TotalStorage Productivity Center products. Managed capacity for IBM TotalStorage Productivity Center for Replication and IBM TotalStorage Productivity Center for Replication Two Site BC is defined as the source device capacity. Only the source device capacity is included in this pricing definition (not the target device).

Terabyte

One terabyte of managed storage; (T/TB) = 2 raised to the power of 40 bytes = 1,099,511,627,776 bytes, or approximately a trillion bytes.

Product and licensing Web sites

A complete list of IBM Tivoli products is available at Web site

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

IBM Tivoli product licensing documents are available at Web site


Passport Advantage

Through the Passport Advantage Agreement, customers may receive discounted pricing based on their 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.

To determine the required Tivoli product configuration under Passport Advantage, the Tivoli Enhanced Value-Based Pricing Model applies. The customer’s environment is evaluated on a per-product basis.

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

1. Analyze the customer 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 Tivoli 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 Tivoli product part number. The sum of these Passport Advantage points determines the Passport Advantage point value of the applicable Tivoli 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.

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 Web site

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

The following Passport Advantage part number categories may be orderable:

- License and Software Maintenance 12 Months — this is the product authorization with maintenance to the first anniversary date.
- Annual Software Maintenance Renewal — this is the maintenance renewal for one anniversary that applies when a customer renews their existing coverage period prior to the anniversary date at which it expires.
- Software Maintenance Reinstatement 12 months — this is for customers who have allowed their Software Maintenance to expire, and later wish to reinstate their Software Maintenance.
- 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 TotalStorage Productivity Center for Replication and IBM TotalStorage Productivity Center for Replication Two Site BC use a new capacity pricing model. The new model consists of six tiers, which are to be used cumulatively. All tiers must be used in order, (begin with the first one and move on to the second one, and so forth) to get to the desired total amount of terabytes (TBs).

Based on the actual TB tiers, the following example is an illustration, using hypothetical prices, to show how to calculate the prices:

<table>
<thead>
<tr>
<th>Tier TB range (actual)</th>
<th>$K/TB (hypothetical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-12</td>
<td>10</td>
</tr>
<tr>
<td>13-32</td>
<td>9</td>
</tr>
<tr>
<td>33-64</td>
<td>8</td>
</tr>
<tr>
<td>65-100</td>
<td>7</td>
</tr>
<tr>
<td>101-250</td>
<td>6</td>
</tr>
<tr>
<td>250 +</td>
<td>5</td>
</tr>
</tbody>
</table>

Total TBs ordered How it would be charged

<table>
<thead>
<tr>
<th>TotalTBs ordered</th>
<th>How it would be charged</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 TB</td>
<td>$10K x 5 TB = $50K</td>
</tr>
<tr>
<td>10 TB</td>
<td>$10K x 10 TB = $100K</td>
</tr>
<tr>
<td>15 TB</td>
<td>$10K x 12 TB + $9K x 3 TB = $147K</td>
</tr>
<tr>
<td>32 TB</td>
<td>$10K x 12 TB + $9K x 20 TB = $300K</td>
</tr>
<tr>
<td>50 TB</td>
<td>$10K x 12 TB + $9K x 20 TB + $8K x 18 TB = $444K</td>
</tr>
<tr>
<td>300 TB</td>
<td>$10K x 12 TB + $9K x 20 TB + $8K x 32 TB + $7K x 36 TB + $6K x 150 TB + $5K x 50 TB = $1,958K</td>
</tr>
</tbody>
</table>
Scenario 1: Customer wants to manage 5 TB of storage capacity with IBM TotalStorage Productivity Center for Replication (5608-TRA) using either Flash Copy or Metro Mirror:

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>TB quantity in customer environment</th>
<th>TB entitlements required</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
<td>5 TB</td>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
</tr>
</tbody>
</table>

Scenario 2: Customer wants to manage 5 TB of storage capacity with IBM TotalStorage Productivity Center for Replication (5608-TRA), using Global Mirror:

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>TB quantity in customer environment</th>
<th>TB entitlements required</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
<td>5 TB</td>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
</tr>
</tbody>
</table>

Scenario 3: Customer wants to manage 5 TB of storage capacity with IBM TotalStorage Productivity Center for Replication (5608-TRA) and 5 TB with TotalStorage Productivity Center for Replication Two Site BC (5608-TRB):

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>TB quantity in customer environment</th>
<th>TB entitlements required</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
<td>5 TB</td>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
</tr>
<tr>
<td>5 TB of IBM TotalStorage Productivity Center for Replication Two Site BC (5608-TRB)</td>
<td>5 TB</td>
<td>5 TB of IBM TotalStorage Productivity Center for Replication Two Site BC (5608-TRB)</td>
</tr>
</tbody>
</table>

Scenario 4: Customer wants to manage 5 TB of storage capacity with the IBM TotalStorage Productivity Center for Replication (5608-TRA) and 10 TB with TotalStorage Productivity Center for Replication Two Site BC (5608-TRB). This is not possible since (5608-TRA) must be at least as much as (5608-TRB).

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>TB quantity in customer environment</th>
<th>TB entitlements required</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
<td>5 TB</td>
<td>Not possible</td>
</tr>
<tr>
<td>10 TB of IBM TotalStorage Productivity Center for Replication Two Site BC (5608-TRB)</td>
<td>10 TB</td>
<td>Not possible</td>
</tr>
</tbody>
</table>

Scenario 5: Customer wants to manage 5 TB with TotalStorage Productivity Center for Replication Two Site BC (5608-TRB):

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>TB quantity in customer environment</th>
<th>TB entitlements required</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
<td>5 TB</td>
<td>5 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
</tr>
<tr>
<td>5 TB of IBM TotalStorage Productivity Center for Replication Two Site BC (5608-TRB)</td>
<td>5 TB</td>
<td>5 TB of IBM TotalStorage Productivity Center for Replication Two Site BC (5608-TRB)</td>
</tr>
</tbody>
</table>

Scenario 6: Customer wants to add license for 20 more TB to their existing license of 30 TB for TotalStorage Productivity Center for Replication (5608-TRA):

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>TB quantity in customer environment</th>
<th>Additional TB entitlements required</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
<td>50 TB</td>
<td>20 TB of IBM TotalStorage Productivity Center for Replication (5608-TRA)</td>
</tr>
<tr>
<td>2 TB in 2nd tier</td>
<td>18 TB in 3rd tier</td>
<td></td>
</tr>
</tbody>
</table>

Migration

Scenario 1: Customer has scripts for Metro Mirror and/or Global Mirror for DS6000 and DS8000 CLI: A tool is available to facilitate this migration.

Scenario 2: Customer wants to migrate to TotalStorage Productivity Center for Replication V3.1 from GMU services offering: A tool is available to facilitate this migration.

Scenario 3: Customer wants to migrate to TotalStorage Productivity Center for Replication V3.1 from TotalStorage Productivity Center for Replication V2.3: This is handled on case-by-case basis with development support.

Ordering information

Product group: Tivoli Storage

Product identifier description: IBM TotalStorage Productivity Center for Replication (5608-TRA)

Product category: Productivity Center for Replication

Product group: Tivoli Storage

Product identifier description: IBM TotalStorage Productivity Center for Replication Two Site BC (5608-TRB)

Product category: Productivity Center for Replication Two Site BC

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.

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
<th>Media packs description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5608-UC5 IBM TotalStorage Replication Center for Replication Terabyte</td>
<td>TotalStorage Productivity Center for Replication V3.1.0 Media Pack Multilingual</td>
<td>BJ016ML</td>
</tr>
</tbody>
</table>

**New licensees**

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

**Basic license**

Ordering information for Passport Advantage

Passport Advantage allows you to have a common anniversary date for Software Maintenance 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 12 full months of maintenance coverage. Maintenance in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all software maintenance will renew at the common anniversary date and include 12 full months of maintenance.

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

The quantity to be specified for the Passport Advantage part numbers in the following table is per terabyte.

IBM TotalStorage Productivity Center for Replication and IBM TotalStorage Replication Center for Replication Two Site BC use a new capacity pricing model. The new model consists of six tiers, which are to be used cumulatively. All tiers must be used in order, (begin with the first one and move on to the second one, and so forth) to get to the desired total amount of terabytes (TBs).

To order for Passport Advantage, specify the desired part number and quantity.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM TotalStorage Productivity Center for Replication Per Terabyte (1-12)</td>
<td>DS8FKLL</td>
</tr>
<tr>
<td>License and Software Maintenance 12 Months</td>
<td>E02K6LL</td>
</tr>
<tr>
<td>IBM TotalStorage Productivity Center for Replication Per Terabyte (1-12)</td>
<td>DS8FLL</td>
</tr>
<tr>
<td>Annual Software Maintenance Renewal</td>
<td>E02K9LL</td>
</tr>
<tr>
<td>IBM TotalStorage Productivity Center for Replication Per Terabyte (1-12)</td>
<td>DS8FLL</td>
</tr>
<tr>
<td>Software Maintenance Reinstatement 12 Months</td>
<td>E02K9LL</td>
</tr>
</tbody>
</table>

IBM TotalStorage Productivity Center for Replication Per Terabyte (13-32)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (101-250)

License and Software Maintenance 12 Months

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

IBM TotalStorage Productivity Center for Replication Per Terabyte (251+)

Annual Software Maintenance Renewal

Software Maintenance Reinstatement 12 Months

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

IBM TotalStorage Productivity Center for Replication Per Terabyte (33-64)

Annual Software Maintenance Renewal

IBM TotalStorage Productivity Center for Replication Per Terabyte (65-100)

License and Software Maintenance 12 Months
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (65-100)
Annual Software Maintenance Renewal
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (65-100)
Software Maintenance Reinstatement 12 Months
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (101-250)
License and Software Maintenance 12 Months
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (101-250)
Annual Software Maintenance Renewal
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (101-250)
Software Maintenance Reinstatement 12 Months
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (251+)
License and Software Maintenance 12 Months
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (251+)
Annual Software Maintenance Renewal
IBM TotalStorage Productivity Center for Replication
Two Site BC
Per Terabyte (251+)
Software Maintenance Reinstatement 12 Months

Use the following table to order the program products listed below:

<table>
<thead>
<tr>
<th>Product number</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5608-TRA</td>
<td>IBM TotalStorage Productivity Center for Replication</td>
</tr>
<tr>
<td>Per Terabyte (1-12) with 1 Year SW Maintenance</td>
<td>4079</td>
</tr>
<tr>
<td>Per Terabyte (13-32) with 1 Year SW Maintenance</td>
<td>4080</td>
</tr>
<tr>
<td>Per Terabyte (33-64) with 1 Year SW Maintenance</td>
<td>4081</td>
</tr>
<tr>
<td>Per Terabyte (65-100) with 1 Year SW Maintenance</td>
<td>4082</td>
</tr>
<tr>
<td>Per Terabyte (101-250) with 1 Year SW Maintenance</td>
<td>4083</td>
</tr>
<tr>
<td>Per Terabyte (251+) with 1 Year SW Maintenance</td>
<td>4084</td>
</tr>
<tr>
<td>Per 250 Terabyte (251+) with 1 Year SW Maintenance</td>
<td>4085</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM TotalStorage Productivity Center for Replication V3.1</td>
<td>BJ016ML</td>
</tr>
<tr>
<td>Media Pack -- Multilingual</td>
<td></td>
</tr>
<tr>
<td>IBM TotalStorage Productivity Center for Replication Two Site BC</td>
<td>BJ017ML</td>
</tr>
<tr>
<td>Media Pack -- Multilingual</td>
<td></td>
</tr>
</tbody>
</table>

IBM TotalStorage Productivity Center for Replication and IBM TotalStorage Productivity Center for Replication Two Site BC are also available via Web download from Passport Advantage.

Withdrawal of Passport Advantage part numbers

The following Passport Advantage part numbers will be withdrawn on July 11, 2006:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalStorage Productivity Center Standard Edition</td>
<td>BJ0E6ML</td>
</tr>
<tr>
<td>V2.2.0 Media Pack Mult</td>
<td></td>
</tr>
<tr>
<td>TotalStorage Productivity Center Fabric V2.2.0 Media Pack Mult</td>
<td>BJ0E6ML</td>
</tr>
<tr>
<td>TotalStorage Productivity Center Data V2.2.0 Media Pack Mult</td>
<td>BJ0E6ML</td>
</tr>
<tr>
<td>TotalStorage Productivity Center Disk V2.2.0 Media Pack Mult</td>
<td>IB006ML</td>
</tr>
</tbody>
</table>

Ordering information for 5608-TRA and 5608-TRB non-Passport Advantage offerings

To order a basic license, specify the program number and the feature number of the desired distribution medium. Also, specify the one-time charge feature number in the quantity desired (maximum quantity of 250).

The quantity to be specified for the features in the following table is per terabytes.

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

IBM TotalStorage Productivity Center for Replication

Maintenance IASP PID 1 Year: 5608-TA1

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Terabyte (1-12) -- Software Maintenance No Charge Registration</td>
<td>4037</td>
</tr>
<tr>
<td>Per Terabyte (13-32) -- Software Maintenance No Charge Registration</td>
<td>4039</td>
</tr>
<tr>
<td>Per Terabyte (33-64) -- Software Maintenance No Charge Registration</td>
<td>4041</td>
</tr>
<tr>
<td>Per Terabyte (65-100) -- Software Maintenance No Charge Registration</td>
<td>4043</td>
</tr>
<tr>
<td>Per Terabyte (101-250) -- Software Maintenance No Charge Registration</td>
<td>4045</td>
</tr>
<tr>
<td>Per Terabyte (251+) -- Software Maintenance No Charge Registration</td>
<td>4047</td>
</tr>
<tr>
<td>Per 250 Terabyte (251+) -- Software Maintenance No Charge Registration</td>
<td>4048</td>
</tr>
<tr>
<td>Per Terabyte (1-12) -- Software Maintenance 1 Year Renewal</td>
<td>4038</td>
</tr>
<tr>
<td>Per Terabyte (13-32) -- Software Maintenance 1 Year Renewal</td>
<td>4040</td>
</tr>
<tr>
<td>Per Terabyte (33-64) -- Software Maintenance 1 Year Renewal</td>
<td>4042</td>
</tr>
<tr>
<td>Per Terabyte (65-100) -- Software Maintenance 1 Year Renewal</td>
<td>4043</td>
</tr>
</tbody>
</table>
-- Software Maintenance 1 Year Renewal
Per Terabyte (101-250) 4044
-- Software Maintenance 1 Year Renewal
Per Terabyte (251+) 4046
-- Software Maintenance 1 Year Renewal
Per 250 Terabyte (251+) 4049
-- Software Maintenance 1 Year Renewal
Per Terabyte (251+) 4049
-- Software Maintenance 1 Year Renewal
Per 250 Terabyte (251+) 4050

Maintenance IASP PID 1 Year: 5608-TA2

Description
Per Terabyte (1-12) Feature number
-- Software Maintenance 1 Year After License 4051
-- Software Maintenance 1 Year After License 4052
-- Software Maintenance 1 Year After License 4053
-- Software Maintenance 1 Year After License 4054
-- Software Maintenance 1 Year After License 4055
-- Software Maintenance 1 Year After License 4056
-- Software Maintenance 1 Year After License 4057
-- Software Maintenance 1 Year After License 4058
-- Software Maintenance 1 Year After License 4059
-- Software Maintenance 1 Year After License 4060
-- Software Maintenance 1 Year After License 4061
-- Software Maintenance 1 Year After License 4062
-- Software Maintenance 1 Year After License 4063
-- Software Maintenance 1 Year After License 4064

-- Software Maintenance 3 Year After License
Per 250 Terabyte (251+) 4077
-- Software Maintenance 3 Year After License
Per Terabyte (251+) 4078

IBM TotalStorage Productivity Center for Replication Two Site BC

Maintenance IASP PID 1 Year: 5608-TB1

Description
Per Terabyte (1-12) Feature number
-- Software Maintenance 1 Year Renewal 4086
-- Software Maintenance 1 Year Renewal 4087
-- Software Maintenance 1 Year Renewal 4089
-- Software Maintenance 1 Year Renewal 4090
-- Software Maintenance 1 Year Renewal 4091
-- Software Maintenance 1 Year Renewal 4092
-- Software Maintenance 1 Year Renewal 4093
-- Software Maintenance 1 Year Renewal 4094
-- Software Maintenance 1 Year Renewal 4095
-- Software Maintenance 1 Year Renewal 4096
-- Software Maintenance 1 Year Renewal 4097
-- Software Maintenance 1 Year Renewal 4098
-- Software Maintenance 1 Year Renewal 4099

Maintenance IASP PID 1 Year: 5608-TB2

Description
Per Terabyte (1-12) Feature number
-- Software Maintenance 1 Year After License 4100
-- Software Maintenance 1 Year After License 4101
-- Software Maintenance 1 Year After License 4102
-- Software Maintenance 1 Year After License 4103
-- Software Maintenance 1 Year After License 4104
-- Software Maintenance 1 Year After License 4105
-- Software Maintenance 1 Year After License 4106

Maintenance IASP PID 3 Year: 5608-TB3

Description
Per Terabyte (1-12) Feature number
-- Software Maintenance 3 Year Registration 4107
-- Software Maintenance 3 Year Registration 4108
-- Software Maintenance 3 Year Registration 4109
-- Software Maintenance 3 Year Registration 4110
-- Software Maintenance 3 Year Registration 4111
-- Software Maintenance 3 Year Registration 4112
-- Software Maintenance 3 Year Registration 4113
IBM Agreement for Acquisition of Software does not require customer signatures:

The following agreement applies for maintenance and Technical Support. This software license includes Software Maintenance, where applicable, are license only and do not include products only, offered outside of Passport Advantage, (PoE) are required for all authorized use. Part number and License Information document. Proofs of Entitlement -- Software Maintenance 3 Year After License 4127 Per 250 Terabyte (251+)
- -- Software Maintenance 3 Year Renewal 4120

Maintenance IASP PID 3 Year: 5608-TB5

Description Feature number
Per Terabyte (1-12) -- Software Maintenance 3 Year After License 4121
Per Terabyte (13-32) -- Software Maintenance 3 Year After License 4122
Per Terabyte (33-64) -- Software Maintenance 3 Year After License 4123
Per Terabyte (65-100) -- Software Maintenance 3 Year After License 4124
Per Terabyte (101-250) -- Software Maintenance 3 Year After License 4125
Per Terabyte (251+) -- Software Maintenance 3 Year After License 4126
Per 250 Terabyte (251+) -- Software Maintenance 3 Year After License 4127

Terms and conditions

Licensing: IBM International Program License Agreement and License Information document. Proofs of Entitlement (PoE) 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 Maintenance, previously referred to as Software Subscription and Technical Support.

The following agreement applies for maintenance and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

License information form number: L-NSTL-6PA23Y

On or near the planned availability date, the LI will be available for review on the IBM Software License Agreement Web site


Limited warranty applies: Yes

Warranty: This program includes a warranty for one year from acquisition from IBM or an authorized IBM Business Partner. For one year from acquisition of the program, this warranty provides the customer access to databases containing program information and FAQs, including any known fixes to defects, which the customer can download or otherwise obtain and install.

Program technical support: Technical support of a program product will be available for a minimum of three 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. Customers 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, return it within 30 days from the invoice date, to the party (either IBM or its reseller) from whom you acquired it, for a 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 the customer.

Copy and use on home/portable computer: No

Volume orders (IVO): No

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 terabytes of managed storage licensed.

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


Software Maintenance applies: Yes

Software Maintenance, previously referred to as Software Subscription and Technical Support, is now included in the Passport Advantage Agreement. Installation and technical support for the products announced in this letter is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity by providing voice and/or electronic access into the IBM support organizations.

IBM includes one year of Software Maintenance with the initial license acquisition of each program acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option.

While your 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, only 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, every day of the year. For
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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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All distributed software licenses include Software Maintenance (Software Subscription and Technical Support) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected. For additional information, refer to Changes to Distributed Software Products Model for Products Outside Passport Advantage Software Announcement 201-201, dated July 10, 2001.

**Variable charges apply:** No

**Educational allowance available:** Yes, 15% education allowance applies to qualified education institution customers.

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**Prices**

Contact your IBM representative for prices information for this announcement.

**Passport Advantage**

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

**Business Partner information:** If you are an IBM Business Partner — Distributor for Workstation Software acquiring products from IBM, you may link directly to Business Partner pricing information. An ID and password is required.

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