



IBM Tivoli Storage Productivity Center for Replication for System z V4.2 delivers exciting enhancements to help monitor, report, and manage replication sessions for the System z environment

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At a glance

New features offered in IBM® Tivoli® Storage Productivity Center for Replication for System z® V4.2 products:

- Improved business continuity - You can now improve business continuity with Open HyperSwap™ support on IBM AIX®. Open HyperSwap works transparently in the background. In the event of a planned or unplanned outage, you can continue to operate with limited to no effect on the host system or application. This can significantly help save time and money.
- Higher administration efficiency - Global Mirror environments are often complex. Tivoli Storage Productivity Center for Replication for System z V4.2 products now provide detailed session reporting for these environments, which can help improve time to resolution when needing to troubleshoot.
- New configurations - Tivoli Storage Productivity Center for Replication for System z V4.2 products now support the "incremental option" on the IBM System Storage™ SAN Volume Controller. The incremental option helps improve overall copy performance and allows computing resources to be given back to the business.

For ordering, contact your IBM representative or an IBM Business Partner. For more information, contact the Americas Call Centers at 800-IBM-CALL (426-2255).

Reference: LE001

Overview

IBM Tivoli Storage Productivity Center for Replication for System z V4.2 products offer the same capabilities and support that are provided by the IBM Tivoli Storage Productivity Center for Replication V4.2 distributed product version, but for the System z environment.

The Tivoli Storage Productivity Center for Replication for System z V4.2 products consist of:

- Tivoli Storage Productivity Center for Replication Basic Edition for System z

- Tivoli Storage Productivity Center for Replication for System z (Two Site BC and Three Site BC)

These products can help you to easily and efficiently manage hundreds of replication sessions across thousands of volumes for both open and System z attached volumes. You can manage point-in-time, continuous volume replication services, monitor sessions, and report on the volumes not in synchronization with the source site. Tivoli Storage Productivity Center for Replication for System z V4.2 products add data protection with proactive management of copy services operations.

Tivoli Storage Productivity Center for Replication for System z V4.2 products support:

- FlashCopy®
- Metro Mirror
- Metro Mirror with HyperSwap
- Metro Mirror Open HyperSwap
- Global Mirror
- IBM System Storage DS8000™ Metro Global Mirror
- Basic HyperSwap
- IBM System Storage DS8000 Metro Global Mirror with HyperSwap

Key prerequisites

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

Planned availability date

September 3, 2010

Description

IBM Tivoli Storage Productivity Center for Replication for System z V4.2 products are designed to support hundreds of replication sessions across thousands of volumes for both open and System z attached volumes. These products have an intuitive graphical user interface (GUI) and a command line interface (CLI) to help more easily configure source-to-target pairing, execute operations, and monitor progress. These capabilities can increase administrator efficiency by utilizing a single tool to manage all copy services functions, thus helping improve overall disaster recovery preparedness.

Tivoli Storage Productivity Center for Replication for System z V4.2 is a modular integrated set of products that includes:

- Tivoli Storage Productivity Center for Replication Basic Edition for System z
- Tivoli Storage Productivity Center for Replication for System z (Two Site BC)
- Tivoli Storage Productivity Center for Replication for System z (Three Site BC)

Tivoli Storage Productivity Center for Replication Basic Edition for System z V4.2

Tivoli Storage Productivity Center for Replication Basic Edition for System z V4.2 enables Basic HyperSwap. This is a no-charge solution to help manage single-site disk replication operations.

Tivoli Storage Productivity Center for Replication for System z V4.2 (Two Site BC)

Tivoli Storage Productivity Center for Replication for System z V4.2 Two Site BC supports Metro Mirror and Global Mirror configurations.

Tivoli Storage Productivity Center for Replication for System z V4.2 (Three Site BC)

Tivoli Storage Productivity Center for Replication for System z V4.2 Three Site BC provides three-site recovery management, supporting IBM System Storage DS8000 Metro Global Mirror and Metro Global Mirror with HyperSwap. It is designed to support fast failover and failback, fast reestablishment of three-site mirroring, data currency at the remote site with minimal lag behind the local site, and quick resynchronization of mirrored sites using incremental changes only.

Key enhancements to all of the above Tivoli Storage Productivity Center for Replication for System z V4.2 products

Global Mirror session reporting

Session reporting is enhanced to provide Global Mirror master information such as master and subordinate topology, consistency group success, and failure reports. This information can help speed problem resolution issues related to Global Mirror sessions, hardware configuration, and hardware failure issues.

Customizable port pairings

You can now specify a Comma Separated Values (CSV) file when assigning port pairings for Metro Mirror and Global Copy logical paths. Using this new method to assign port pairs helps make it less likely to impact performance caused by applications and replication traffic using the same port. In addition, it helps simplify the control over disaster recovery operations and reduce potential outages due to mismatched port pairings.

Soft removal of copy sets

Tivoli Storage Productivity Center for Replication for System z V4.2 products deliver new capabilities to remove copy sets from a Tivoli Storage Productivity Center for Replication for System z session while leaving the hardware relationships on the storage systems. This conveniently includes all currently supported Tivoli Storage Productivity Center for Replication for System z hardware types and session types while allowing the hardware relationships to remain intact. This helps IT managers maintain the integrity of the relationship for the purpose of migrating between session types, Tivoli Storage Productivity Center for Replication for System z servers, or other copy services management servers.

Open HyperSwap

Open HyperSwap is a new function within the Tivoli Storage Productivity Center for Replication for System z V4.2 products. Open HyperSwap (comparable to HyperSwap for System z) helps improve the continuous availability attributes of open system servers (IBM AIX) by managing a set of planned and unplanned disk system outages for Metro Mirror peer-to-peer remote copy (PPRC) capable disk systems.

Open HyperSwap transparently switches disk input and output (I/O) from a primary storage system to the target storage system of a Metro Mirror relationship in the event of a system outage. Whether the event is planned or unplanned, this rich disaster recovery function has no effect on the higher layers of the host system and associated applications.

Incremental FlashCopy support for IBM System Storage SAN Volume Controller

Tivoli Storage Productivity Center for Replication for System z V4.2 continues to evolve and expand capabilities by adding new support that allows an "incremental option" to be set for all IBM System Storage SAN Volume Controller sessions that use FlashCopy or Metro Mirror and Global Mirror with practice sessions. When selected, the incremental option significantly helps reduce the amount of time it

takes to perform a copy operation by only performing incremental updates from the source to the target copy set. This simple, powerful feature gives back operational cycles that can enable businesses to focus on additional mission-critical strategies.

IBM System Storage DS8000 multiple Global Mirror support

Tivoli Storage Productivity Center for Replication for System z V4.2 supports the enhancement to IBM System Storage DS8000 that allows you to create multiple Global Mirror sessions on the same storage system. This enhancement removes the previous restriction of one Global Mirror session per IBM System Storage DS8000 storage system. Using multiple Global Mirror sessions, you can use the same IBM System Storage DS8000 storage system to handle the asynchronous replication needs for different applications, each of which may have different replication requirements.

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

Section 508 of the U.S. Rehabilitation Act

IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z V4.2 and IBM Tivoli Storage Productivity Center for Replication for System z V4.2 are capable, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that Windows® Eyes 6.1, JAWS 9, HPR, or CSS style sheet removal tools are used with the product properly, and that any other assistive technology is interoperable with the product.

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following Web site:

http://www-3.ibm.com/able/product_accessibility/index.html

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).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=210-240>

Product positioning

Tivoli Storage Productivity Center for Replication for System z V4.2 is designed to support hundreds of replication sessions across thousands of volumes and supports both open and z/OS® attached volumes. In addition, it helps monitor all copy session types and reports on the volumes exposed at the disaster recovery site (not in synchronization with the source site).

Reference information

For information on IBM Tivoli Storage Productivity Center V4.2 distributed products, refer to Software Announcement [210-239](#), dated August 17, 2010.

Program number

Program number	VRM	Program name
5698-B30	4.2	IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z
5698-B31	4.2	IBM Tivoli Storage Productivity Center for Replication for System z

Product identification number

Program PID number	Subscription and Support PID number
5698-B30	5698-RB1
5698-B31	5698-S1A

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>

Publications

The following publications are delivered with the basic machine-readable material:

Title	Order number
IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z V4.2 Program Directory	GI11-8958
IBM Tivoli Storage Productivity Center for Replication for System z V4.2 Program Directory	GI11-8960

The following DVD is delivered with the basic machine-readable material:

- IBM Tivoli Storage Productivity Center for Replication for System z V4.2 Quick Start Guide

The publications listed below are available in English and can be downloaded from the following Web site on the general availability date. Translated copies in selected languages will be available for download within 60 days of the general availability date.

<http://publib.boulder.ibm.com/infocenter/tivihelp/v4r2/index.jsp>

Title	Order number
IBM Tivoli Storage Productivity Center for Replication for System z V4.2 Problem Determination Guide	GC27-2320
IBM Tivoli Storage Productivity Center for Replication for System z V4.2 Installation and Configuration Guide	SC27-2321
IBM Tivoli Storage Productivity Center for Replication for System z V4.2 User's Guide	SC27-2322
IBM Tivoli Storage Productivity Center for Replication for System z V4.2 Command-Line Interface User's Guide	SC27-2323
IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z V4.2 Program Directory	GI11-8958
IBM Tivoli Storage Productivity Center for Replication for System z V4.2 Program Directory	GI11-8960

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 requirements

Following are the minimum hardware requirements for Tivoli Storage Productivity Center Basic Edition for System z V4.2 and Tivoli Storage Productivity Center for Replication for System z V4.2.

Machine: System z architecture CPU that supports the operating system

- Minimum 4 GB memory
- Minimum 4 GB memory for IBM WebSphere®
- Minimum 1,200 (3390 track) cylinders of disk space
- Minimum 5,000 (3390 track) cylinders of disk space for WebSphere
 - Total disk space requirement: 6,200 cylinders

Refer to the product README file for any updated hardware requirements.

Storage requirements

Library type	Total space required
Target	8 3390 tracks
Distribution	536 3390 tracks
HFS or zFS	533 3390 tracks

Software requirements

Tivoli Storage Productivity Center for Replication Basic Edition for System z V4.2

- Operating system:
 - IBM z/OS V1.9 with APARs OA22023, OA23238, OA26603, and OA25299

- IBM z/OS V1.10 with APARs OA24142, OA25299, and OA26603
- IBM z/OS V1.11
- IBM SMP/E for z/OS V3.03.0, or later
- IBM storage controller with the Advanced Copy feature Metro Mirror (This includes IBM ESS Models 800, DS6000™, and DS8000.)
- TCP/IP connection to manage storage systems

Any one of the following (if not using the EMBEDDED database):

- IBM DB2® for z/OS V8, or later
- IBM DB2 V8 for z/OS Value Unit Edition, or later
- IBM DB2 V9 for z/OS, or later
- IBM DB2 V9 for z/OS Value Unit Edition, or later

Tivoli Storage Productivity Center for Replication for System z V4.2

- Operating system:
 - IBM z/OS V1.9 with APARs OA22023 and OA26603
 - IBM z/OS V1.10 with APAR OA26603
 - IBM z/OS V1.11
- Operating system (if using the HyperSwap functionality):
 - IBM z/OS V1.9 with APARs OA22023, OA23238, OA26603, and OA25299
 - IBM z/OS V1.10 with APARs OA24142, OA25299, and OA26603
 - IBM z/OS V1.11
- IBM SMP/E for z/OS V3.03.0, or later
- IBM storage controller with the Advanced Copy feature Metro Mirror (This includes IBM ESS Models 800, DS6000, and DS8000.)
- TCP/IP connection to manage storage systems

Any one of the following (if not using the embedded database):

- IBM DB2 for z/OS V8, or later
- IBM DB2 V8 for z/OS Value Unit Edition, or later
- IBM DB2 V9 for z/OS, or later
- IBM DB2 V9 for z/OS Value Unit Edition, or later

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.

Companion products

You should consider IBM Tivoli Storage Productivity Center Standard Edition V4.2 as a companion product because its advanced functions are designed to help:

- Manage the capacity utilization of file systems and databases, and automate file system capacity provisioning by including Tivoli Storage Productivity Center and IBM Tivoli Provisioning Manager
- Perform device configuration and management of multiple devices from a single user interface
- Tune and proactively manage the performance of storage devices on the SAN
- Manage, monitor, and control SAN fabrics
- Automate storage tasks such as provisioning with advanced workflows offered in a combined solution

Tivoli Storage Productivity Center Standard Edition brings together management of the SAN, storage devices, and host resources, including databases and file systems, in a single control point. In addition, it offers the following benefits:

- Designed to provide over 300 enterprise-wide reports, monitoring and alerts, policy-based action, and file system capacity automation in heterogeneous environments
- Can help automate device discovery, topology rendering, error detection fault isolation, SAN error predictor, zone control, monitoring and alerts, and event management for heterogeneous enterprise SAN environments
- Collects performance statistics from IBM System Storage, Brocade, Cisco, and McDATA fabric switches, and directors that implement the SNIA SMI-S specification
- Offers device management, and configuration and disk performance management
- Designed to enable device configuration and management of SAN-attached devices from a single console
- Provides device management and configuration for the IBM System Storage DS6000 and DS8000 product families, IBM Enterprise Storage Server® (ESS) 800, IBM System Storage SAN Volume Controller, and DS4000™ (FASTT)
- Offers performance management capabilities, including thresholds and gauges, that can help allow proactive management of storage performance
- Designed to allow a user to gather and analyze historical and real-time performance metrics for IBM ESS, DS8000, DS6000, DS4500, DS4800, and SAN Volume Controller
- Includes the Storage Planner, which is designed to analyze workload profiles and can provide advice on the location to choose or create volumes in an IBM ESS 800

Planning information

Direct customer support

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

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

Packaging

Tivoli Storage Productivity Center for Replication Basic Edition for System z V4.2 and Tivoli Storage Productivity Center for Replication for System z V4.2 are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- Tape 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 Replication Basic Edition for System z V4.2 and Tivoli Storage Productivity Center for Replication for System z 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.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

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

Licensing metric definitions and pricing examples

Licensing metric definitions

IBM Tivoli Storage Productivity Center terabyte capacity

A terabyte capacity is each individual terabyte of storage capacity managed by the IBM Tivoli Storage Productivity Center for Replication for System z products. Managed capacity for the IBM Tivoli Storage Productivity Center for Replication for System z products is defined as the source device capacity. Only the source device capacity (not the target device) is included in this pricing definition.

Machine

A machine is a server and a unit of measure by which the program can be licensed. A server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. For the purpose of server-based licensing, licensee must obtain entitlements for each server which is made available to the program, regardless of the number of processor cores and/or partitions in the server or the number of copies of the program on the server.

Terabyte

Terabyte is a unit of measure by which the program can be licensed. A terabyte is 2 to the 40th power bytes. Licensee must obtain an entitlement for each terabyte of storage available to the program.

Note: Some programs may be licensed on a managed basis **only**. In that case, instead of the entitlements required for the program directly, licensee must obtain terabyte entitlements for this program sufficient to cover the storage managed by the program.

VU Value Unit

VU Value Unit is a unit of measure by which the program can be licensed. VU Value Unit Proofs of Entitlement (PoEs) are based on the number of units of users or a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of VU Value Units required for licensee's environment as specified in the table below. VU Value Unit entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with VU Value Unit entitlements of another program.

Pricing examples

Terabyte (TB) based scaling definitions for System z (VUE027)

Usage level, cumulative	Minimum	Maximum	value units/TB
Tier 1	1	12	1.0000
Tier 2	13	32	0.8455
Tier 3	33	64	0.6137
Tier 4	65	100	0.4639
Tier 5	101	250	0.3870
Tier 6	251+		0.3097

If you only plan to manage HyperSwap volumes on System z, you should order Tivoli Storage Productivity Center for Replication Basic Edition for System z, at no charge. There is a small fee per machine for service and subscription that covers support for one year. If you are interested in advanced copy services, in addition to HyperSwap, you need to order the priced product, Tivoli Storage Productivity Center for Replication for System z. Refer to the scenarios below.

Notes for Tivoli Storage Productivity Center for Replication for System z

- The Two Site feature is a prerequisite for the Three Site optional feature.
- It is not possible to order a number of TB for the Three Site optional feature that exceeds the number of TB ordered for the Two Site feature.

Scenario 1: The customer wants to manage 5 TB of storage capacity with Tivoli Storage Productivity Center for Replication for System z, using either FlashCopy, Metro Mirror, or Global Mirror:

Systems managed	TB quantity in customer environment	TB entitlements required
5 TB of Tivoli Storage Productivity Center for Replication for System z Two Site BC feature	5 TB	5 TB of IBM Tivoli Storage Productivity Center for Replication for System z Two Site BC feature

Scenario 2: The customer wants to manage 10 TB of storage capacity using Metro Global Mirror with Tivoli Storage Productivity Center for Replication for System z Three Site BC feature and therefore needs 10 TB of the prerequisite Tivoli Storage Productivity Center for Replication for System z Two Site BC feature:

Systems managed	TB quantity in customer environment	TB entitlements required
10 TB of Tivoli Storage Productivity Center for Replication for System z Two Site BC	10 TB	10 TB of IBM Tivoli Storage Productivity Center for Replication for System z Two Site BC

feature	feature
10 TB of Tivoli Storage Productivity Center for System z Three Site BC feature	10 TB of Tivoli Storage Productivity Center for System z Three Site BC feature

Scenario 3: The customer wants to add 20 more TB of storage capacity to their existing license of 30 TB of storage capacity for Tivoli Storage Productivity Center for Replication for System z:

Systems managed	TB quantity in customer environment	Additional TB entitlements required
50 TB of Tivoli Storage Productivity Center for System z Two Site BC feature	50 TB	20 TB of Tivoli Storage Productivity Center for System z Two Site BC feature

Scenario 4: The customer wants to perform Basic Hyperswap functions on System z using Tivoli Storage Productivity Center for Replication Basic Edition for System z:

- For each System z server running an active copy of Tivoli Storage Productivity Center for Replication Basic Edition for System z, a copy of Tivoli Storage Productivity Center for Replication Basic Edition for System z is required. If you are managing one or more sysplexes across one or more partitions or servers, where all active copies of Tivoli Storage Productivity Center for Replication Basic Edition for System z are running on a single System z server, then one copy of Tivoli Storage Productivity Center for Replication Basic Edition for System z is required.
- If you are managing multiple sysplexes across multiple servers and the active copies of Tivoli Storage Productivity Center for Replication Basic Edition for System z are running on multiple System z servers, then one copy of Tivoli Storage Productivity Center for Replication Basic Edition for System z is required for each System z server running an active copy of Tivoli Storage Productivity Center for Replication Basic Edition for System z.

Ordering information

Value Unit exhibit VUE027

Cumulative usage Level	Value Units per TB
1 - 12 TB	1 VU/TB
13 - 32 TB	0.8455 VUs/TB
33 - 64 TB	0.6137 VUs/TB
65 - 100 TB	0.4639 VUs/TB
101 - 250 TB	0.3870 VUs/TB
251+ TB	0.3097 VUs/TB

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative

(or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Current licensees

Current licensees, with support in effect, will receive instructions on how to order this update.

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for 5698-B30 and 5698-B31 non-MSU-based System z offerings

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: Tivoli Storage Productivity Center for Replication
Basic Edition for System z V4.2
Program PID: 5698-B30

Entitlement identifier	Description	License option/ Pricing metric
S015H9C	Tivoli Storage Productivity Center for Replication Basic Edition for System z	Basic OTC, per Machine

Orderable supply ID	Language	Distribution medium
S015H96	Multilingual	Tape

Subscription and Support PID: 5698-RB1

Entitlement identifier	Description	License option/ Pricing metric
S0150HC	Tivoli Storage Productivity Center for Replication Basic Edition for System z S&S	Basic ASC, per Machine SW S&S No charge, decline SW S&S

Orderable supply ID	Language	Distribution medium
S01511M	Multilingual	Hardcopy pub

Program name: Tivoli Storage Productivity Center for Replication for
for System z V4.2
Program PID: 5698-B31

Entitlement identifier	Description	License option/ Pricing metric
S015H9D	Tivoli Storage Productivity Center for Replication for System z Two Site BC	Basic OTC, per Value Unit

Orderable supply ID	Language	Distribution medium
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S015H98	Multilingual	Tape
Entitlement identifier	Description	License option/ Pricing metric
S015H9F	Tivoli Storage Productivity Center for Replication for System z Three Site BC	Basic OTC, per Value Unit
Orderable supply ID	Language	Distribution medium
S015H9B	Multilingual	Tape
Subscription and Support PID: 5698-S1A		
Entitlement identifier	Description	License option/ Pricing metric
S0140WX	Tivoli Storage Productivity Center for Replication for System z Two Site BC S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S0144F4	Multilingual	Hardcopy publication
Entitlement identifier	Description	License option/ Pricing metric
S0140WZ	Tivoli Storage Productivity Center for Replication for System z Three Site BC S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S0144F3	Multilingual	Hardcopy publication

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, Processor Value Units or terabytes) must be the same as the capacity ordered for the product licenses.

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

IBM is also providing Subscription and Support for these products, via a separately purchased offering, under the terms of the IBM International Agreement for Acquisition of Support Maintenance. 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.

Customized Offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the Customized Offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs - 3480, 3480 Compressed, 3490E, 3590, 3592*
- ServerPacs - 3480, 3480 Compressed, 3490E, 3590, 3592*
- SystemPacs - 3480, 3480 Compressed, 3490E, 3590, 3592*

*3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

Terms and conditions

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

Licensing

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

Agreement for Acquisition of Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures:

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

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance

(voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

- IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z: L-JTUR-85LPRF
- IBM Tivoli Storage Productivity Center for Replication for System z: L-JTUR-85LPRF

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

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Volume orders (IVO)

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IBM International Passport Advantage Agreement

Passport Advantage applies

No

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Yes

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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Corrections

(Corrected on September 27, 2010)

Updated the companion products section.