



# IBM Tivoli Storage Productivity Center for Replication for System z V5.1 delivers exciting enhancements to help monitor, report, and manage replication sessions for the System z environment

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## At a glance

IBM® Tivoli® Storage Productivity Center for Replication for System z® V5.1 delivers:

- Support for IBM DS8000® V6.3 Extent Space Efficient volume for all remote copy services relationships
- Co-existence support with external failover applications
- Support for IBM WebSphere® Application Server V7 and V8 on z/OS® in both 31-bit and 64-bit addressing modes
- Addition of warning and severe thresholds for Recovery Point Objective alerts and export of Recovery Point Objective statistics for historical analysis
- Ability to start a Global Mirror session in Global Copy mode
- Support for new HyperSwap® functions

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 V5.1 products offer the same capabilities and support that are provided by the IBM Tivoli Storage Productivity Center for Replication distributed product version, but for the System z environment.

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

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

These products can help you to manage easily and efficiently 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 products also add data protection capabilities with proactive management of copy services operations.

Tivoli Storage Productivity Center for Replication for System z V5.1 products support all combinations of copy services available on IBM enterprise storage devices, such as FlashCopy® and Metro Global Mirror, including HyperSwap . New in V5.1 is support for DS8000 V6.3 Extent Space Efficient volume, support for IBM WebSphere Application Server V7 and V8, and better integration with external failover applications.

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## Key prerequisites

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

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## Planned availability date

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June 15, 2012

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## Description

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IBM Tivoli Storage Productivity Center for Replication for System z 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 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

### **Tivoli Storage Productivity Center for Replication Basic Edition for System z**

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

### **Tivoli Storage Productivity Center for Replication for System z**

Tivoli Storage Productivity Center for Replication for System z combines the former Two-Site BC and Three-Site BC offerings into a single license. It provides support for Metro Mirror and Global Mirror configurations as well as 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.

Tivoli Storage Productivity Center for Replication for System z products support:

- FlashCopy
- Basic HyperSwap
- Metro Mirror
- Metro Mirror with HyperSwap
- Metro Mirror with Open HyperSwap

- Global Mirror
- IBM System Storage DS8000 Metro Global Mirror
- IBM System Storage DS8000 Metro Global Mirror with HyperSwap

## What's new

- **Simplified licensing** - Tivoli Storage Productivity Center for Replication for System z V5.1 combines the licenses for Two-Site BC and Three-Site BC into a single, comprehensive license encompassing all replication features.
- **Improved integration with third-party products** - Tivoli Storage Productivity Center for Replication for System z is designed to manage replication at a storage device level. Several products outside of Tivoli Productivity Center for Replication for System z are built to handle site failovers. These products do not manage and set up the storage level replication, but may perform the failover actions to the hardware in order to automatically perform a site switch of their data. Tivoli Storage Productivity Center for Replication for System z recognizes when an external failover is issued on the storage systems being managed providing the ability to reverse the direction of the copy or restart in the original direction accordingly.
- **New configuration support** - Tivoli Storage Productivity Center for Replication for System z provides support for IBM DS8000 V6.3 Extent Space Efficient volumes in all Remote Copy Services relationships. Combined with DS8000 V6.3, users can now use Extent Space Efficient (ESE) volumes in any role of a remote copy services relationship.
- **Metro mirror management improvements (requires APAR OA37632)** - Tivoli Storage Productivity Center for Replication for System z provides improved management capability for Metro Mirror sessions containing system volumes. Enablement of HyperSwap is no longer required. This feature also helps ensure that data consistency is still maintained even if Tivoli Storage Productivity Center for Replication for System z is not active at the time of a disaster.
- **Improved management and alerting** - Tivoli Storage Productivity Center for Replication for System z provides the ability to set a "warning" and a "severe" threshold on Recovery Point Objective (RPO) metrics for a Global Mirror session. If the RPO surpasses the warning threshold, an SNMP event will be thrown and a message issued for the Tivoli Storage Productivity Center for Replication for System z session indicating that the RPO has passed the warning point and, therefore, may soon pass the severe threshold. If the RPO surpasses the severe threshold, an SNMP event will be activated, a message issued, and the session should indicate a severe status until the RPO once again drops below the threshold. Additionally, Tivoli Storage Productivity Center for Replication for System z will allow the user to export Global Mirror history to a CSV file for RPO and Out of Sync analysis. This feature extends the reporting capability already available and provides a means of storing this history for extended periods of time for greater report capability.
- **Global Mirror enhancements** - Tivoli Storage Productivity Center for Replication provides the ability to export Global Mirror history to a CSV file for RPO and Out of Sync Track analysis. This feature extends the reporting capability already available and provides a means of storing this history for extended periods of time for greater report capability.
- **Enhanced session flexibility** - Tivoli Storage Productivity Center for Replication for System z provides the ability to start a Global Mirror session in Global Copy mode. This gives the user better control of replication services activity as DS8000 family storage systems begin forming consistency groups.
- **IBM WebSphere Application Services for z/OS** Tivoli Storage Productivity Center for Replication for System z supports IBM WebSphere Application Services for z/OS V7 and V8 in 31 bit and 64 bit.
- **HyperSwap enhancements (require APAR OA37632)**
  - Exploits features of the IBM DS8700 and DS8800 that allows HyperSwap to obtain information on the cause of storage replication suspension events, and based on that information is able to allow systems to continue to run where that was not previously possible.

- Exploits features of the IBM DS8700 and DS8800 to inform HyperSwap of the impact to applications of recovery operations the storage system may be performing. HyperSwap monitors these alerts and will trigger a HyperSwap on certain recovery actions.
- Provides the option of suspending replication on a HyperSwap session when a storage failure occurs, even when the HyperSwap session is currently disabled. This provides a consistent copy of the data at the target site.

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### Accessibility by people with disabilities

A US 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](http://www.ibm.com/able/product_accessibility/index.html)

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### Section 508 of the US Rehabilitation Act

IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z V5.1 and IBM Tivoli Storage Productivity Center for Replication for System z V5.1 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 website

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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### 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=212-144>

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### Product positioning

Tivoli Storage Productivity Center for Replication for System z 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).

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### Reference information

Refer to Software Announcement [212-189](#), dated June 04, 2012

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### Program number

Program number	VRM	Program name
5698-Z12	5.1	IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z
5698-Z11	5.1	IBM Tivoli Storage Productivity Center for Replication for System z

## Product identification number

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Program PID number	Subscription and Support PID number
5698-Z12	5698-RB1
5698-Z11	5698-S1A

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## Education support

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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/>

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## Offering Information

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Product information is available via the Offering Information website

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

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## Publications

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The publications listed below are available in English and can be downloaded from the following website on the general availability date. Translated copies in selected languages will be available for download within 30 days of the general availability date.

<http://publib.boulder.ibm.com/infocenter/tivihelp/v59r1/index.jsp>

Title	Order number
IBM Tivoli Storage Productivity Center for Replication for System z V5.1 Command-line Interface User's Guide	SC27-4055
IBM Tivoli Storage Productivity Center for Replication for System z V5.1 Installation and Configuration Guide	SC27-4053
IBM Tivoli Storage Productivity Center for Replication for System z V5.1 User's Guide	SC27-4054

English and translated versions of the IBM Tivoli Storage Productivity Center for Replication for System z V5.1 Problem Determination Guide (SC27-4056) are available from the website six weeks following the general availability date.

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.

### Specified operating environment

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#### **Hardware requirements**

Following are the minimum hardware requirements for Tivoli Storage Productivity Center Basic Edition for System z V5.1 and Tivoli Storage Productivity Center for Replication for System z V5.1.

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 V5.1**

- Operating system:
  - IBM z/OS V1.11 with APAR OA39124
  - IBM z/OS V1.12 with APAR OA39124
  - IBM z/OS V1.13 with APAR OA39124

Tivoli Storage Productivity Center for Replication Basic Edition for System z new HyperSwap and Metro Mirror functions require APAR OA37632. Refer to the [Description](#) for additional details.

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

Any one of the following:

- IBM WebSphere Application Server for z/OS V6.1, V7, and V8
- IBM WebSphere Application Server OEM Edition for z/OS V6.1 and V7

Note: IBM WebSphere Application Server is a prerequisite for Tivoli Storage Productivity for Replication Basic Edition for z/OS . If you currently have the supported version of IBM WebSphere Application Server, you may use it. If you

do not, IBM WebSphere Application Server OEM Edition for z/OS V7.0 is shipped with Tivoli Storage Productivity for Replication Basic Edition for z/OS .

### **Tivoli Storage Productivity Center for Replication for System z V5.1**

- Operating system:
  - IBM z/OS V1.11 with APAR OA39124
  - IBM z/OS V1.12 with APAR OA39124
  - IBM z/OS V1.13 with APAR OA39124

Tivoli Storage Productivity Center for Replication for System z new HyperSwap and Metro Mirror functions require APAR OA37632. Refer to the [Description](#) for additional details.

- 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 Fixed Block volumes on storage systems

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

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

Any one of the following:

- IBM WebSphere Application Server for z/OS V6.1, V7, and V8
- IBM WebSphere Application Server OEM Edition for z/OS V6.1 and V7

Note: IBM WebSphere Application Server is a prerequisite for Tivoli Storage Productivity for Replication for z/OS . If you currently have the supported version of IBM WebSphere Application Server, you may use it. If you do not, IBM WebSphere Application Server OEM Edition for z/OS is shipped with Tivoli Storage Productivity for Replication for z/OS .

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 V5.1 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 400 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 prediction, zone control, real-time monitoring and alerting, 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, 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

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## **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 V5.1 and Tivoli Storage Productivity Center for Replication for System z V5.1 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 website, 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.

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## **Security, auditability, and control**

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

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## Software Services

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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/>

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## Licensing metric definitions and pricing examples

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### Licensing metric definitions

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#### 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, the following applies: 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 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 volumes on System z with Basic HyperSwap , 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, beyond the capabilities of, or in addition to Basic 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

**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, Metro Mirror with HyperSwap , 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	5 TB	5 TB of IBM Tivoli Storage Productivity Center for Replication for System z

**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 .

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

**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 Replication for System z	50 TB	20 TB of Tivoli Storage Productivity Center for Replication for System z

**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 .

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## Ordering information

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### 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 US 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 website at

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

### Current licensees

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#### ***New licensees***

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

### Basic license

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#### **Ordering information for 5698-Z11 and 5698-Z12 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 V5.1  
 Program PID: 5698-Z12

Entitlement identifier	Description	License option/ Pricing metric
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S01714V Tivoli Storage Productivity Basic OTC, per Machine  
Center for Replication  
Basic Edition for System z

Orderable supply ID Language Distribution medium

S01714W Multilingual 3590 Tape

Subscription and Support PID: 5698-RB1

Entitlement identifier	Description	License option/ Pricing metric
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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
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Orderable supply ID Language Distribution medium

S01511M Multilingual Hardcopy pub

Program name: Tivoli Storage Productivity Center for Replication for System z V5.1

Program PID: 5698-Z11

Entitlement identifier	Description	License option/ Pricing metric
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S01714Z	Tivoli Storage Productivity Center for Replication for System z	Basic OTC, per Value Unit
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Orderable supply ID Language Distribution medium

S017150 Multilingual 3590 Tape

Subscription and Support PID: 5698-S1A

Entitlement identifier	Description	License option/ Pricing metric
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S0140WG	Tivoli Storage Productivity Center for Replication for System z S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S
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Orderable supply ID Language Distribution medium

S0144F5 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**

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Product deliverables are shipped only via CBPDO, ServerPac, SystemPac® .

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the ShopzSeries help information at

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

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options for CBPDO, ServerPac, and SystemPac , include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. 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 general availability.
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

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## **Terms and conditions**

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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 (5698-Z12) and IBM Tivoli Storage Productivity Center for Replication for System z (5698-Z11): L-JSHW-8SYMSF

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Yes

**Limited warranty**

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**Other terms****Volume orders (IVO)**

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**IBM International Passport Advantage Agreement****Passport Advantage applies**

No

**Usage restriction**

Yes.

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**IBM Operational Support Services - SoftwareXcel**

Yes

**System i Software Maintenance applies**

No

**Variable charges apply**

Yes

**Educational allowance available**

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