



# IBM Copy Services Manager V6.1.1 delivers replication management with simplified and automated replication tasks

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## At a glance

IBM<sup>(R)</sup> Copy Services Manager is a replication management solution based on Tivoli<sup>(R)</sup> Productivity Center (TPC) technology that delivers central control of your replication environment while helping to simplify and automate complex replication tasks. Using Copy Services Manager, you can coordinate copy services on a variety of IBM Storage Systems, including DS8000<sup>(R)</sup>, SVC, Storwize<sup>(R)</sup> V7000, and XIV<sup>(R)</sup>. You can help prevent errors and increase system continuity using source and target volume matching, site awareness, disaster recovery testing, and standby management. Copy Services Manager improves upon the replication functionality offered in TPC:

- Stand-alone installation for replication management
- Multi-target support for Metro Mirror and Global Mirror with practice capability
- Support for over 200 Global Mirror sessions
- Supports purchase for open systems
- HyperSwap<sup>(R)</sup> enabled for the Multi-target Metro Mirror/Global Mirror sessions
- Support for DS8000 for LDAP
- Migration support for old storage systems using multi-target
- PowerHA<sup>(R)</sup> support

## Overview

IBM Copy Services Manager offers all of the great the replication management features of TPC with improved functionality.

Copy Services Manager delivers support for the advanced copy services capabilities on the DS8000, in addition to the support for SAN Volume Controller, Storwize V7000, and XIV. This includes automating administration and configuration of these services, operational control (starting, suspending, resuming) of copy services tasks, and monitoring and managing the copy services sessions.

Copy Services Manager supports Metro Mirror, FlashCopy<sup>(R)</sup>, and Global Mirror on the DS8000 and SAN Volume hardware platforms. Advanced disaster recovery functions are also supported with failover/failback (planned and unplanned) from a primary site to a disaster recovery site. Copy Services Manager also can monitor the performance of the copy services that provide a measurement of the amount of replication and the amount of time that is required to complete the replication

operations. Copy Services Manager also supports multi-target for both Metro Mirror and Global mirror, with practice capability.

By using Copy Services Manager on IBM DS storage devices, tasks that took up to five steps can be accomplished in just one. The practice session in Copy Services Manager enables you to test your disaster recovery environment without interfering with daily operations. This means you can run a practice session before you perform the actual action. Copy Services Manager also improved functionality to support over 200 Global Mirror sessions to help your data mining efforts.

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## Key prerequisites

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None

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## Planned availability date

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March 24, 2016: Electronic download

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## Description

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IBM Copy Services Manager is a replication management solution based on TPC replication technology that delivers central control of your replication environment using simplified and automated complex replication tasks. Using Copy Services Manager, you can coordinate copy services on IBM Storage including DS8000, SVC, Storwize V7000, and XIV. You can also help prevent errors and increase system continuity using source and target volume matching, site awareness, disaster recovery testing, and standby management. Copy Services Manager improves upon the functionality offered in TPC-R with multi-target support for Metro Mirror and Global Mirror with practice capability and support for over 200 Global Mirror sessions.

Copy Services Manager is simple to use, reduces the number of steps required for many copy services management activities, and has many added benefits over other replication methods. Commands are efficient and easy to understand. An active and a standby server can be set up to enable server redundancy. You can define default port pairings for logical paths on DS8000 Storage Systems. Progress reports of the copies within the sessions are available within reports. You can help ensure visibility by setting up recovery point objective (RPO) warnings and severe threshold alerts. The RPO data can be exported in CSV format for easy analysis.

Safety features are built-in with Copy Services Manager. This includes prompts or warnings before an action is executed, defined user roles to help prevent unapproved actions, volume protection capability, and site awareness to help prevent incorrect hardware relationships.

Copy Services Manager is well-integrated with z Systems™ even when running on a distributed systems server. The server function runs in a z/OS® address space. You can use FICON® for FICON-attached volumes without a TCP/IP connection when the system mover is present (TCP/IP can be used for non-FICON attached volumes). Hardened freeze support ensures consistency can be maintained for a Metro Mirror session even when there is loss of access to the Copy Services Manager server. The z Systems storage administrator can monitor both mainframe (ECKD™) DASD volumes and non-mainframe (FBA) disk volumes.

Copy Services Manager provides the ability to manage HyperSwap, Metro Mirror with HyperSwap, and Metro Global Mirror with HyperSwap when all primary and secondary devices are defined to z Systems with available paths. HyperSwap provides continuous availability by handling both planned and unplanned automatic swapping of I/O requests from the primary to secondary site for Metro Mirror pairs. Operator interaction is not required making this nondisruptive to the application.

*Basic* is an entitled version of Copy Services Manager on z Systems for HyperSwap continuous availability support without disaster recovery capabilities. Metro Mirror with HyperSwap and Metro Global Mirror with HyperSwap support adds in disaster recovery capabilities along with the high availability of HyperSwap in both two- and three-site solutions. Once Copy Services Manager loads the configuration, swap by command or event can be managed directly from z Systems. The same IOS component handles the actual swap as with IBM Geographically Dispersed Parallel Sysplex™ (GDPS<sup>(R)</sup>). This HyperSwap is coordinated across the sysplex and can also be managed through Copy Services Manager from a remote server.

By using Copy Services Manager for your copy services management, you can help reduce your workload by using less commands and improve safety through pre-command execution warnings and user roles. The integration of Copy Services Manager with z systems and support for metro Mirror, Global Mirror, and HyperSwap help ensure your replication is managed in a single place and in an efficient manner.

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### Accessibility by people with disabilities

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A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM Accessibility](#) website.

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### Reference information

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For complete information about IBM Copy Services Manager for z Systems™, refer to Software Announcement [ZP15-0691](#), dated December 8, 2015.

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### Program number

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Program number	VRM	Program name
5725-Z54	6.1.1	IBM Copy Services Manager

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### Offering Information

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Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage<sup>\(R\)</sup>](#) and [Passport Advantage Express<sup>\(R\)</sup>](#) website.

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### Publications

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The following publications can be ordered from the [IBM Publications Center](#):

Title	Order number
<i>IBM Copy Services Manager User's Guide Version 6.1.1</i>	SC27-8542
<i>IBM Copy Services Manager Installation and Configuration Guide Version 6.1 .1</i>	SC27-8543

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. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

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### Services

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#### Global Technology Services

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

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

Product must be installed on a supported server as described in the *IBM Copy Services Manager Installation and Configuration Guide Version 6.1.1*.

#### **Software requirements**

No prerequisites or corequisites.

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.

#### **IBM Electronic Support**

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools on the [IBM Electronic Support](#) website.

You can also access the [IBM Support Portal](#) page and the online [Service requests and PMRs](#) tool for more support.

### Planning information

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#### **Packaging**

This offering is delivered as electronic download from Passport Advantage. There is no physical media.

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 named so as to include the word *license*.

### Direct customer support

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Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support (Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

## Security, auditability, and control

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IBM Copy Services Manager V6.1.1 uses the security and auditability features of the host hardware.

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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## Ordering information

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For ordering information, consult your IBM representative or authorized IBM Business Partner, or go to the <http://www.ibm.com/software/support/pa.html> website.

Product Group: IBM Systems

Product: IBM Copy Services Manager version 6.1.1 (5725-Z54)

Product Category: IBM Copy Services Manager

### Ordering information for Passport Advantage

Passport Advantage (PPA) allows greater flexibility to help customers manage their software licenses and Subscription and Support renewals. Customers can now have a common anniversary date for Subscription and Support renewals for all IBM software, under a PPA agreement, including IBM Storage software. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while their Passport Advantage or Passport Advantage Express agreement remains in effect.

The quantity to be specified for the Passport Advantage part numbers in the following table is per **Resource Value Unit**.

### Resource Value Unit (RVU)

RVU is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for licensee's environment for the specific resources as specified in the program specific table. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource.

The Resource for the purpose of RVU calculation for Copy Services Manager is Terabyte. A Terabyte is 10 to the 12th power bytes. Licensee must obtain sufficient entitlements to cover the total number of Terabytes of source data managed by the Program.

Resource Value Unit Conversion table:

From 1 to 12 Resources, 1.00 RVU per Resource  
From 13 to 32 Resources, 12 RVUs plus 0.84 RVUs per Resource above 12  
From 33 to 64 Resources, 28.8 RVUs plus 0.61 RVUs per Resource above 32  
From 65 to 100 Resources, 48.32 RVUs plus 0.46 RVUs per Resource above 64  
From 101 to 250 Resources, 64.88 RVUs plus 0.38 RVUs per Resource above 100  
For more than 250 Resources, 121.88 RVUs plus 0.30 RVUs per Resource above 250

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

Program name: IBM Copy Services Manager version 6.1.1 (5725-Z54)

Description	Part number
IBM Copy Services Manager Resource Value Units Lic + SW S&S 12 Mo	D1M9SLL
IBM Copy Services Manager Resource Value Units Annual SW S&S Rnwl	E0MK5LL
IBM Copy Services Manager Resource Value Units SW S&S Reinstate 12 Mo	D1M9TLL
IBM Copy Services Manager Resource Value Units MONTHLY LICENSE	D1M9MLL
IBM Copy Services Manager Resource Value Units for Linux™ on z Systems Lic + SW S&S 12 Mo	D1M9ULL
IBM Copy Services Manager Resource Value Units for Linux on z Systems Annual SW S&S Rnwl	E0MK6LL
IBM Copy Services Manager Resource Value Units for Linux on z Systems SW S&S Reinstate 12 Mo	D1M9VLL
IBM Copy Services Manager Resource Value Units for Linux on z Systems MONTHLY LICENSE	D1M9NLL

The products in the above tables are also available via web download from Passport Advantage.

#### Charge metric

Program name	PID number	Charge metric
IBM Copy Services Manager	5725-Z54	PA per Resource Value Units

#### Terabyte

Terabyte is a unit of measure by which the Program can be licensed. A Terabyte is 10 to the 12th power bytes. Licensee must obtain an entitlement for each Terabyte of storage available to the Program.

#### Resource Value Unit (RVU)

RVU is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for licensee's environment for the specific resources as specified in the program specific table. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource.

#### VUE027A

- From 1 to 12 (Resources/Users), 1.00 (RVU/UVU) per (Resource/User)
- From 13 to 32 (Resources/Users), 12 (RVUs/UVUs) plus 0.84 (RVUs/UVUs) per (Resource/User) above 12
- From 33 to 64 (Resources/Users), 28.8 (RVUs/UVUs) plus 0.61 (RVUs/UVUs) per (Resource/User) above 32
- From 65 to 100 (Resources/Users), 48.32 (RVUs/UVUs) plus 0.46 (RVUs/UVUs) per (Resource/User) above 64
- From 101 to 250 (Resources/Users), 64.88 (RVUs/UVUs) plus 0.38 (RVUs/UVUs) per (Resource/User) above 100
- For more than 250 (Resources/Users), 121.88 (RVUs/UVUs) plus 0.30 (RVUs/UVUs) per (Resource/User) above 250

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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

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IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

### Agreement for Acquisition of Software Maintenance

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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. Copy Services Manager supporting open systems is only available via Passport Advantage. Copy Services Manager supporting z is available via ESW.

### Licensing

IBM International Passport Advantage Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of IBM Copy Services Manager. IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of IBM Copy Services Manager for z. PoEs are required for all authorized use Part number products only, offered outside of Passport Advantage where applicable, are license only and do not include Software.

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

### License Information number

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L-TANE-A6XV6H

See the [License Information documents](#) page on the IBM Software License Agreement website for more information.

### Limited warranty applies

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Yes

### Limited warranty

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IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation

of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, see the [IBM Software Support Handbook](#).

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

### **Money-back guarantee**

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If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

### **Volume orders (IVO)**

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No

### **Passport Advantage applies**

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Yes, information is available on the [Passport Advantage and Passport Advantage Express](#) website.

### **Software Subscription and Support applies**

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Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support 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 by 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 users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, see the [IBM Software Support Handbook](#). Software Subscription and Support 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 the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.



## **System i Software Maintenance applies**

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No

## **Variable charges apply**

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No

## **Educational allowance available**

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Education allowance does not apply. Education software allowance does not apply. Special education prices are available for qualified customers through Passport Advantage.

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## **Statement of good security practices**

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IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

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## **Prices**

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For all local charges, contact your IBM representative

### **Passport Advantage**

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner.

Additional information is also available at <http://www.ibm.com/software/passportadvantage> website

### *Business Partner information*

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to [Passport Advantage Online for resellers](#) where you can obtain Business Partner pricing information. An IBM ID and password are required

For all local charges, contact your IBM representative.

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## **Announcement countries**

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All European, Middle Eastern, and African countries except Islamic Republic of Iran, Sudan, and Syrian Arab Republic.

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

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## **Corrections**

### **(Corrected on July 10, 2017)**

The Resource Value Unit section and the information under the Terabyte heading in the Ordering information section have been updated.