



IBM Copy Services Manager V6.1.4 delivers replication management with simplified and automated replication tasks

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At a glance

IBM^(R) Copy Services Manager is a replication management solution that delivers central control of your replication environment while helping to simplify and automate complex replication tasks. With Copy Services Manager, you can coordinate copy services on a variety of IBM Storage Systems, including DS8000^(R), SAN Volume Controller (SVC), Storwize^(R) V7000, and XIV^(R). 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 V6.1.4 offers the following improvements over the previously announced V6.1.3:

- Support for extent space-efficient (ESE) to standard Peer-to-Peer Remote Copy (PPRC) relationships
- Support for Ubuntu
- DSCLI shipped with Copy Services Manager on z/OS^(R)
- Ability to Setup SNMP and email notifications through the Copy Services Manager GUI
- Single direction support in port pairing CSV file
- Support for FlashSystemTM A9000 and A9000R
- New event for SVC auto restart and auto restart failure

Overview

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

Copy Services Manager supports Metro Mirror, FlashCopy^(R), and Global Mirror on the DS8000 and SVC 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 can also 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 multitarget 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 so that you can run a practice session before you perform the actual action.

Key prerequisites

None

Planned availability date

November 18, 2016: Electronic download

Description

IBM Copy Services Manager is a replication management solution that delivers central control of your replication environment using simplified and automated replication tasks. With Copy Services Manager, you can coordinate copy services on a variety of IBM Storage products, 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 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 nonmainframe (FBA) disk volumes.

Copy Services Manager delivers the ability to manage HyperSwap^(R), 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 delivers 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®). 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 management of your copy services, you can help reduce your workload by using less commands and improve safety through precommand execution warnings and user roles. The integration of Copy Services Manager with z systems and support for Metro Mirror, Global Mirror, and HyperSwap help to ensure your replication is managed in a single place and in an efficient manner.

IBM Copy Services Manager z/OS FlashCopy Manager is a tool to assist in the integration of IBM DS8000 FlashCopy Services into the z/OS batch production environment. z/OS FlashCopy Manager will deliver the tools to discover, document, and autogenerate FlashCopy configurations and build batch invocation jobs to be included in complex job streams that include other applications of software. You will also be able to control the entire FlashCopy process using standard z/OS job scheduling facilities in order to accomplish a required set of business objectives.

Accessibility by people with disabilities

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

Section 508 of the US Rehabilitation Act

IBM Copy Services Manager V6.1.4 is capable as of November 18, 2016, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be found on the [IBM Accessibility](#) website.

Reference information

For complete information about IBM Copy Services Manager for z Systems™, refer to Software Announcement [215-529](#), dated December 8, 2015.

For complete information about IBM Copy Services Manager for open systems, refer to Software Announcement [216-176](#), dated March 22, 2016.

Program number

Program number	VRM	Program name
5725-Z54	6.1.4	IBM Copy Services Manager (for Passport Advantage®)
5698-E01	6.1.4	IBM Copy Services Manager for z Systems V6.1
5698-E02	6.1.4	IBM Copy Services Manager Basic Edition for z Systems V6.1

Product identification number

Program PID number	Subscription and Support PID number
5698-E01	5698-E03
5698-E02	5698-E04

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^(R) ID and password are required (use IBMid).

[BP Attachment for Announcement Letter 216-458](#)

Publications

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

Title	Order number
<i>IBM Copy Services Manager User's Guide Version 6.1.4</i>	SC27-8542
<i>IBM Copy Services Manager Installation and Configuration Guide Version 6.1.4</i>	SC27-8543
<i>IBM Copy Services Manager z/OS FlashCopy Manager User's Guide</i>	SC27-8032

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.

Services

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, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Hardware requirements

Product must be installed on a supported server as described in the *IBM Copy Services Manager Installation and Configuration Guide Version 6.1.4*.

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

Packaging

IBM Copy Services Manager for z Systems

This offering is delivered through the internet through Shopz.

IBM Copy Services Manager for open systems

This offering is delivered as electronic download from Passport Advantage^(R). 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*.

Security, auditability, and control

IBM Copy Services Manager V6.1.4 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.

Ordering information

Product Group: IBM Systems

Product: IBM Copy Services Manager version 6.1.4 (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^(R) 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 6.1.4 (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.

The following program in this announcement has Value Unit-Based pricing:

Program number	Program name	Value Unit exhibit
5698-E01	IBM Copy Services Manager for System z ^(R) V6.1	VUE027

For each z Systems IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Your required license capacity is based upon the following factors:

- The z Systems IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

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

Shopz 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). For more details and availability, go to the [Shopz](#) website.

Trade-up ordering information

Current licensees of the IPLA replaced program, IBM Tivoli[®] Storage Productivity Center for Replication for System z (5698-Z11) with active Subscription and Support (5698-S1A) are eligible to trade-up to the IPLA replacement program, IBM Copy Services Manager for z Systems V6.1 (5698-E01). All IPLA replaced program entitlements being traded in must be terminated. In some cases, the IPLA replaced program entitlements may not be the same as the IPLA replacement program entitlement. For example, if the customer has 100 Value Units entitlement of IPLA replaced program A and is trading up to 90 Value Units of entitlement to the IPLA replacement program, the customer must terminate all 100 Value Units entitlement of IPLA replaced Program A. Current licensees interested in trading up should contact their IBM Sales representative.

IBM Tivoli Productivity Center for Replication Basic Edition, 5698-Z12, is not eligible for trade up. However, clients are encouraged to move to CSM for z Basic Edition at the expiration date of their current subscription and support for TPC-R Basic Edition.

Charge metric

Program name	PID number	Charge metric
IBM Copy Services Manager for open systems	5725-Z54	PA per Resource Value Units
IBM Copy Services Manager for z Systems	5698-E01	ESW per TB Value Units
IBM Copy Services Manager Basic Edition for z Systems	5698-E02	Per machine

Value units

A Value Unit (VU) is the metric by which this software's license entitlements are obtained. Value Unit entitlements are based on the quantity of a specific designated measurement, for example MSUs, Users Engines, Tape Drives, etc., for the given software. The appropriate number of entitlements must be obtained for the appropriate number of VUs required for your environment as defined by the specific software terms. The VU entitlements are specific to the software and may not be exchanged, interchanged, or aggregated with VU entitlements of another software program.

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 (such as 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 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 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.

Basic license

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: IBM Copy Services Manager for z Systems V6.1

Program PID: 5698-E01 6.1.4

Entitlement identifier	Description	License option/Pricing metric
S017SN1	IBM Copy Services Manager for z Systems V6.1	Basic OTC, Value Units
	Trade-up from 5698-Z11 IBM Tivoli ^(R) Storage Productivity Center for	

Entitlement identifier	Description	License option/Pricing metric
	Replication for System z ^(R) V5	
Orderable supply ID	Language	Distribution medium
S017SN0	MUL (multi-lingual)	3590 Tape

Subscription and Support PID: 5698-E03

Entitlement identifier	Description	License option/Pricing metric
S017WXT	IBM Copy Services Manager for z Systems S&S	Basic ASC, per Value Unit SW S&S
		No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S017WXS	MUL (multi-lingual)	Paper

Program name: IBM Copy Services Manager Basic Edition for z Systems V6.1

Program PID: 5698-E02 6.1.4

Entitlement identifier	Description	License option/Pricing metric
S017WXV	IBM Copy Services Manager Basic Edition for z Systems V6.1	Basic OTC, Per Machine
Orderable supply ID	Language	Distribution medium
S017SN3	MUL (multi-lingual)	3590 Tape

Subscription and Support PID: 5698-E04

Entitlement identifier	Description	License option/Pricing metric
S017WXZ	IBM Copy Services Manager Basic Edition for z Systems S&S	Basic ASC, per Machine SW S&S
		No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S017WXX	MUL (multi-lingual)	Paper

Subscription and support (S&S)

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The license includes one year of S&S. S&S renewal in one year increments is automatic unless specifically canceled. The capacity of S&S (Value Units) must be the same as the capacity ordered for the product licenses. To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- 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 canceled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390^(R) and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business

model, you must order BOTH the license for the program AND the support for the selected programs at the same Value Unit quantities.

Customized Offerings

Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where Shopz 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, go to the Help section on the [Shopz](#) website.

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 include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the product ServerPac, go to the Help section on the [Shopz](#) website.

For additional information about the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 31, 2012.

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 four weeks after general availability.

Terms and conditions

The terms and conditions for IBM Copy Services Manager, as previously announced in Software Announcements [215-529](#), dated December 8, 2015, and [216-176](#), dated March 22, 2016, are unchanged.

Statement of good security practices

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.

Prices

The prices are unchanged by this announcement.

Order now

To order, contact your Americas Call Centers, local IBM representative, or your IBM Business Partner. To identify your local IBM representative or IBM Business Partner call 800-IBM-4YOU (426-4968). For more information, contact the Americas Call Centers.

Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: callserv@ca.ibm.com

For IBM Business Partner: pwcs@us.ibm.com

Mail:

IBM Teleweb Customer Support
ibm.com^(R) Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada L3R 2Z1

Reference:

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

Trademarks

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[Terms of use](#)

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the [IBM worldwide contacts page](#)

[IBM United States](#)

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.