

IBM Copy Services Manager

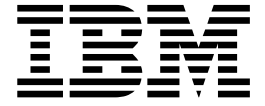


Release Notes

October 2018

Version 6 Release 2

IBM Copy Services Manager



Release Notes

October 2018

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Note:

Before using this information and the product it supports, read the information in "Notices" on page 15.

This edition applies to version 6, release 2, modification 3 of IBM Copy Services Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

About this document	v
What's new	vii
Prerequisites	1
Getting support and information	3
Publications and related information	5
Known issues and workarounds	9
Notices	15
Privacy policy considerations	17
Trademarks	17

About this document

This document contains the release notes in support of IBM® Copy Services Manager Version 6, Release 2, Modification 3.

What's new

The following functions are introduced in IBM Copy Services Manager Version 6.2.3:

Version 6, Release 2, Modification 3

This table provides the current technical changes and enhancements to Copy Services Manager as of October 2018.

For more information on how to use these new features, see the IBM Copy Services Manager online product documentation (<http://www-01.ibm.com/support/knowledgecenter/SSESK4>).

Table 1. What's new in Copy Services Manager Version 6.2.3 (October 2018)

Function or feature	Description
Automatic synchronization of z/OS host connection certificates	Now in Copy Services Manager V6.2.3, the certificates for a z/OS host connection are automatically synchronized across both the active and standby servers after import. This synchronization was previously a manual process, but is now handled by the Copy Services Manager code.
Updated software requirements for installing Copy Services Manager on z/OS	The IBM z/OS software levels for installing Copy Services Manager have been updated.
Information about using the FORCE_FULL_INSTALL parameter added to z/OS postinstallation instructions	You can use the FORCE_FULL_INSTALL parameter in the IWNINSTL job in case of a failed initial installation on z/OS.
FMIDs updated for uninstalling Copy Services Manager on z/OS	The function modification identifiers (FMIDs) have been updated for Copy Services Manager V6.2.3 in the instructions for uninstalling on z/OS.
Option to not set a schedule when initially creating a scheduled task	You can now create a scheduled task without setting a specific schedule for it. You cannot enable a task that does not have a schedule, but you can run it manually.
New 4 site session type available	A new multi-target session type has been added in Copy Services Manager 6.2.3. This new session is Metro Mirror - Global Mirror with Site 4 Replication, and is available on DS8000 storage systems.
Support for new Safeguarded Copy session type	Safeguarded Copy is a new protection mechanism for data on DS8000 storage systems. The Safeguarded Copy session type provides backup copies to recover data in case of logical corruption or destruction of primary data, either accidentally, or from deliberate attacks.

Table 1. What's new in Copy Services Manager Version 6.2.3 (October 2018) (continued)

Function or feature	Description
New and updated commands	<p>The following new commands were added in Copy Services Manager 6.2.3:</p> <ul style="list-style-type: none"> • lsbackups • lsbackupvols • lstasks • runtask <p>The following commands were updated in Copy Services Manager 6.2.3:</p> <ul style="list-style-type: none"> • chsess • cmdsess • lscptypes • mkcpset • mksess • showsess

Prerequisites

Prerequisites for Copy Services Manager include supported operating systems, browsers, and storage systems.

The Copy Services Manager prerequisites can be found at <http://www-01.ibm.com/support/docview.wss?uid=ssg1S1005402>.

Getting support and information

There are several resources available for obtaining additional information and support.

IBM System Storage® products website

IBM System Storage products: <http://www.ibm.com/servers/storage>

IBM Copy Services Manager Support Portal

Copy Services Manager Support Portal (https://www.ibm.com/support/home/product/10000480/IBM_Copy_Services_Manager)

Note: You might need to enter your IBM ID when you first enter this portal.

IBM Support representative

Contact your IBM support representative.

Publications and related information

Product guides, other IBM publications, and websites contain information that relates to IBM Copy Services Manager.

To view a PDF file, you need Adobe Reader. You can download it at no charge from the Adobe website (get.adobe.com/reader/).

Online documentation

The IBM Copy Services Manager online product documentation (<http://www-01.ibm.com/support/knowledgecenter/SSESK4>) contains all of the information that is required to install, configure, and manage IBM Copy Services Manager. The online documentation is updated between product releases to provide the most current documentation.

Publications

You can order or download individual publications that have an order number from the IBM Publications Center website (www.ibm.com/shop/publications/order/).

Table 2. IBM Copy Services Manager product publications

Title	Description	Order number
<i>IBM Copy Services Manager Installation and Configuration Guide</i>	This guide provides task-oriented information for anyone who installs and configures IBM Copy Services Manager.	V6.2.3 SC27-8543-08 V6.2.2 SC27-8543-07 V6.2.1 SC27-8543-06 V6.2.0 SC27-8543-05 V6.1.5 SC27-8543-04 V6.1.4 SC27-8543-03 V6.1.3 SC27-8543-02 V6.1.2 SC27-8543-01 V6.1.0 SC27-8543-00
<i>IBM Copy Services Manager User's Guide</i>	This guide provides task-oriented information for users of IBM Copy Services Manager. Users should be familiar with the following topics <ul style="list-style-type: none"> • Copy Services concepts • General principles of IBM AIX®, Linux, Windows, and the IBM z/OS operating systems • Simple Network Management Protocol (SNMP) concepts • Storage Area Network (SAN) concepts 	V6.2.3 SC27-8542-09 V6.2.2 SC27-8542-08 V6.2.1 SC27-8542-07 V6.2.0 SC27-8542-06 V6.1.5 SC27-8542-05 V6.1.4 SC27-8542-04 V6.1.3 SC27-8542-03 V6.1.2 SC27-8542-02 V6.1.1 SC27-8542-01 V6.1.0 SC27-8542-00
<i>IBM Copy Services Manager Command-line Interface User's Guide</i>	This guide provides information for customizing and using the command-line interface for IBM Copy Services Manager. This guide provides information for customizing and using the command-line interface for IBM Copy Services Manager.	V6.2.3 SC27-8998-04 V6.2.2 SC27-8998-03 V6.2.1 SC27-8998-02 V6.2.0 SC27-8998-01 V6.1.5 SC27-8998-00

Table 2. IBM Copy Services Manager product publications (continued)

Title	Description	Order number
<i>IBM Copy Services Manager z/OS FlashCopy Manager User's Guide</i>	This guide provides task-oriented information for those who administer FlashCopy® operations in a z/OS® environment.	V6.2.3 SC27-8032-04 V6.2.2 SC27-8032-03 V6.2.0 SC27-8032-02 V6.1.5 SC27-8032-01 V6.1.3 SC27-8032-00
<i>IBM Copy Services Manager Release Notes</i>	This document contains the release notes in support of IBM Copy Services Manager.	Search on IBM Copy Services Manager at IBM Fix Central (www.ibm.com/support/fixcentral) to locate and download the Release Notes® related to your product version.
<i>IBM Copy Services Manager for z Systems Program Directory and IBM Copy Services Manager Basic Edition for z Systems Program Directory</i>	<p>These program directories are intended for system programmers who are responsible for program installation and maintenance.</p> <p>They contain information about the material and procedures associated with the installation of IBM Copy Services Manager for z Systems® and IBM Copy Services Manager Basic Edition for z Systems.</p>	<p><i>IBM Copy Services Manager for z Systems Program Directory</i></p> <p>V6.2.3 GI13-4517-07 V6.2.2 GI13-4517-06 V6.2.1 GI13-4517-05 V6.2.0 GI13-4517-04 V6.1.4 GI13-4517-03 V6.1.3 GI13-4517-02 V6.1.1 GI13-4517-01 V6.1.0 GI13-4517-00</p> <p><i>IBM Copy Services Manager Basic Edition for z Systems Program Directory</i></p> <p>V6.2.3 GI13-4518-07 V6.2.2 GI13-4518-06 V6.2.1 GI13-4518-05 V6.2.0 GI13-4518-04 V6.1.4 GI13-4518-03 V6.1.3 GI13-4518-02 V6.1.1 GI13-4518-01 V6.1.0 GI13-4518-00</p>
<i>Program Directory for IBM Copy Services Manager FlashCopy Manager for IBM Copy Services Manager for z Systems</i>	This guide is intended for the system programmer or storage administrator of the IBM Copy Services Manager z/OS FlashCopy Manager utility.	V6.2.3 GI11-2904-07 V6.2.2 GI11-2904-05 V6.2.1 GI11-2904-04 V6.2.0 GI11-2904-03 V6.1.4 GI11-2904-02 V6.1.3 GI11-2904-01
<i>IBM DSCLI on z/OS Program Directory</i>	<p>This program directory is intended for system programmers who are responsible for program installation and maintenance.</p> <p>It contains information about the material and procedures associated with the installation of the IBM Copy Services Manager on the DS8000® HMC for access to the DS8000 CLI.</p>	V6.2.3 GI13-3563-04 V6.2.2 GI13-3563-03 V6.2.1 GI13-3563-02 V6.2.0 GI13-3563-01 V6.1.4 GI13-3563-00

Related websites

View the websites in the following table to get more information about IBM Copy Services Manager.

Table 3. IBM Copy Services Manager related websites

Title	Description
IBM website (ibm.com [®])	Find more information about IBM products and services.
IBM Support Portal website(www.ibm.com/support/home)	Find support-related information such as downloads, documentation, troubleshooting, and service requests and PMRs.
Copy Services Manager Support Portal (https://www.ibm.com/support/home/product/10000480/IBM_Copy_Services_Manager)	Find technical support information that is specific to IBM Copy Services Manager.
IBM Directory of Worldwide Contacts website(www.ibm.com/planetwide)	Find contact information for general inquiries, technical support, and hardware and software support by country.
IBM Redbooks [®] website(www.redbooks.ibm.com/)	Find technical information developed and published by IBM International Technical Support Organization (ITSO).
IBM System Storage Interoperation Center (SSIC) website (www.ibm.com/systems/support/storage/config/ssic)	Find information about supported host system models, operating systems, adapters, and switches.
IBM Fix Central (www.ibm.com/support/fixcentral)	Find fixes and updates for your system's software, hardware, and operating system.

Known issues and workarounds

The following information describes current known issues with IBM Copy Services Manager Version 6.2.3 and any associated workarounds.

Table 4. IBM Copy Services Manager Version 6.2.3 known issues and workarounds

Issue	Explanation and possible workaround
<p>When defined with the same consistency group name, all sessions that share the same DS8000 storage system have the same Master/Subordinate topology, even if there are sessions that do not span the same set of storage systems.</p>	<p>Copy Services Manager supports assigning the same consistency group name to multiple Global Mirror sessions. Master/Subordinate sessions for DS8000 are supported, but limited testing was completed for different combinations of Master/Subordinate configurations, due to environment limitations.</p> <p>Consult with IBM Support to ensure proper coverage of your required configuration.</p>
<p>When more than 256 Copy Services Manager sessions are assigned the same consistency group name, internal issues are encountered.</p>	<p>Limit the number of sessions with the same consistency group name to under 256. This issue will be addressed in a future release.</p>
<p>The Global Mirror options are not synced across sessions that share the same consistency group name. Therefore, when the Global Mirror Master is started, it uses the options that were defined for one of the sessions.</p>	<p>In Copy Services Manager, you can modify certain options for Global Mirror sessions, such as the consistency-group interval time. Ensure that all sessions that have the same consistency group name are also defined with the same Global Mirror options.</p>
<p>When the Global Mirror data for a session is exported, gaps might result with no data while the session was in a suspended state.</p>	<p>When a Global Mirror session that shares a consistency group name with other sessions is suspended, the suspended session is removed from the Master on the hardware while the other sessions are restarted and continue to form consistency groups. When a session is removed from the Master, Copy Services Manager stops collecting historical Global Mirror data for that session.</p> <p>This code limitation has no current workaround.</p>
<p>Copy Services Manager does not support the ability to change the Master of the Metro Global Mirror session from the H2 volumes to the H1 volumes without affecting the other Global Mirror sessions that share the consistency group name.</p>	<p>Copy Services Manager supports the ability to use the same consistency group name across a Metro Global Mirror session. However, when running H1>H2, if you issue either a Start H1>H3 to complete an Incremental Resync, or you issue a Suspend/Recover/Start H2H1H3 to switch the direction of the session, the Global Mirror session is terminated at site 2, which affects the other shared Global Mirror sessions.</p> <p>This is a code limitation with no current workaround.</p>

Table 4. IBM Copy Services Manager Version 6.2.3 known issues and workarounds (continued)

Issue	Explanation and possible workaround
Copy Services Manager does not support local OS authentication.	<p>When you migrate from a Tivoli® Storage Productivity Center for Replication installation that uses local OS authentication to a Copy Services Manager installation (see the <i>IBM Copy Services Manager Installation and Configuration Guide</i> for migration instructions), local OS users are displayed on the Administration page with an indication that they were not found in either the LDAP or Basic User Registries.</p> <p>Delete these local OS users, and then either create new basic users for local users, or configure LDAP to use LDAP users or groups for authentication.</p>
There is a known DS8000 issue on certain microcode levels when a relationship is running in Global Copy and switched to a Metro Mirror mode. An error occurs indicating that the multi-target feature is not supported. This problem might be encountered on multi-target Metro Mirror - Global Mirror and multi-target Metro Mirror - Global Mirror with Practice session types.	Suspend the Metro Mirror pairs, and then restart to work around the issue.
After a Recover to Site 3 for a Metro Mirror - Global Mirror with Practice session that uses count-key data (CKD) volumes, when a Start H3->H1->H2 or Start H3->H2->H1 command is issued, the hardware might return an error code 0F74 with Sense Byte 9 set to 0A on the H1-H3 relationships. This situation leads to a full copy of the data from H3 to H1.	There is a known issue after recovering to site 3 for a Metro Mirror - Global Mirror with Practice session using CKD volumes. The Start H3->H1->H3 and Start H3->H2->H1 command attempt to establish failed over relationships from the H3 volume back to H1 to avoid a full copy, as H3 is the target of the FlashCopy relationship and not in the remote copy relationship between site 1 and site 3. Due to the error in setting up the failback to avoid a full copy, the H3 to H1 relationship performs a full copy of the data.
Copy Services Manager does not support migrating from one Copy Services Manager server to another on z/OS.	<p>If you need to migrate Copy Services Manager from one server to another on z/OS, contact IBM Support.</p> <p>Also, see the section that is titled "Backing up and restoring product data" in Chapter 2 of the <i>IBM Copy Services Manager User's Guide</i> for a high availability approach.</p>

Table 4. IBM Copy Services Manager Version 6.2.3 known issues and workarounds (continued)

Issue	Explanation and possible workaround
<p>The Start H3H1H2/StartH3H2H1 command on a multi-target Metro Mirror - Global Mirror with Practice session receives a 0F52 hardware error.</p>	<p>During the Start H3H1H2/Start H3H2H1 command operation for a multi-target Metro Mirror - Global Mirror with Practice session, a failover is issued to the H1/H2 volume to later establish H3 to H1/H2. If there are no paths between H1/H2 and H3, you receive a 0F52 error.</p> <p>The workaround for this scenario is to ensure that there are paths from H1/H2 to H3 and H3 to H1/H2 before you issue the Start H3H1H2 or H3H2H1 command.</p>
<p>When you use Copy Services Manager on a DS8000 HMC, the key size for a certificate must be 2048.</p>	<p>On z/OS 2.1, you might encounter a problem due to the key size of a certificate not defaulting to 2048. You can resolve this issue by adding the SIZE(2048) parameter to the RACDCERT statement when you generate a self-signed certificate.</p> <p>For more information, see the topic that is titled "Configuring a secure communication between HyperSwap® and the client" in the Install Guide or online product documentation. "Publications and related information" on page 5 provides details on where to find this information.</p>
<p>When you upgrade from a previous version of Copy Services Manager to Version 6.2.0, you might encounter an error when you edit the port pairings CSV file in the GUI.</p>	<p>A new feature in Copy Services Manager 6.2.0 is the ability to add logical paths by editing a sample CSV file in the GUI. However, in previous versions of this file, one of the lines that is supposed to be a comment starts with a dollar (\$) sign instead of a number (#) sign. This situation returns an error.</p> <p>This issue is fixed in Version 6.2.0, but is retained for upgrades. Therefore, be aware that you might encounter this error if you upgrade from an older version of Copy Services Manager.</p>

Table 4. IBM Copy Services Manager Version 6.2.3 known issues and workarounds (continued)

Issue	Explanation and possible workaround
<p>There are limitations for DS8000 storage systems when you set a property in the <code>rmserver.properties</code> file on a multi-target session to support Remote Pair FlashCopy in a multi-target environment.</p>	<p>The only option that is currently supported by DS8000 for Remote Pair FlashCopy (Preserve Mirror) is Attempt to preserve Metro Mirror consistency but fail FlashCopy if Metro Mirror target consistency can't be preserved, or restricted mode in the DSCLI.</p> <p>You might receive the following error if you use the wrong option: IWNR1027E : The command Flash in session rpfc-mtc23-12xx has completed with one or more errors. error Jun 6, 2017 4:07:52 PM : csmuser : IWNR2114E : A hardware error occurred during the running of a command for the pair in session rpfc-mtc23-12xx for copy set DS8000:2107.LD581:VOL:1206 with source DS8000:2107.LD581:VOL:1206 and target DS8000:2107.LD581:VOL:1201 in role pair H1-T1. The hardware returned an error code of 0f89. Sense Byte 9: 10.</p>
<p>Unable to connect to older DS8000 storage systems after upgrade to Copy Services Manager 6.2.0</p>	<p>After you upgrade to Copy Services Manager 6.2.0, the Copy Services Manager server might be unable to connect to older DS8000 storage systems due to updated security protocols.</p> <p>Contact support if you encounter problems with connecting to the storage system after upgrade.</p>
<p>Discovery of disconnected storage under FICON® during storage systems refresh</p>	<p>If a storage system disconnects from the FICON attachment under z/OS, its status, along with the parent connection is reported as Degraded and marked with the message: z/OS Device Path Connection Degraded.</p> <p>During normal operation, after the device reconnects, the status goes back to Connected for both the device and its connection. However, if a device is disconnected and then removed from the Copy Services Manager storage connection panel, the message is not removed from the parent. The parent continues to display z/OS Device Path Connection Degraded until Copy Services Manager is restarted.</p>

Table 4. IBM Copy Services Manager Version 6.2.3 known issues and workarounds (continued)

Issue	Explanation and possible workaround
<p>Removal of a Copy Services Manager user also results in the removal of any users that have the same name, but in a different case.</p>	<p>If you have multiple user IDs with the same spelling, but different case, you should not remove any of these user ID variations. Doing so causes all of the users to be removed from the Copy Services Manager access control list, and none of the users are then able to log in to the account.</p> <p>You can add the deleted user back if necessary with no errors. Remove the other users from the <code>basicRegistry.xml</code> file, and then they can be added again.</p>
<p>Migration from Tivoli Storage Productivity Center for Replication to Copy Services Manager on z/OS results in some features that fail to start if the <code>rmserver.properties</code> file is in ASCII and not EBCDIC.</p>	<p>Check your <code>rmserver.properties</code> file before you migrate from Tivoli Storage Productivity Center for Replication to Copy Services Manager. If the file is encoded in ASCII, change it to EBCDIC encoding before you proceed with the migration.</p> <p>For more information and detailed steps, see "Migrating on z/OS," in the installation procedures. See "Publications and related information" on page 5 for where to obtain the Install Guide or view the installation topics in the online help.</p>
<p>On a multi-target Metro Mirror - Global Mirror session with HyperSwap enabled, after the swap occurs, an 0FD2 error might appear on the original Global Mirror leg when you start replication from the new site.</p>	<p>The original Global Mirror leg is non-participating and does not affect replication. However, after you swap back, the leg might continue to show the error. If so, the error puts the session in a Target Available and Severe state, even though the swap was successful.</p> <p>To clear the error on the non-participating role pair, another start can be issued, even if the session is already in a Prepared state.</p>
<p>During certain migrations from Tivoli Storage Productivity Center for Replication to Copy Services Manager, the <code>rmserver.properties</code> file might become corrupt during installation.</p>	<p>If you plan to upgrade from Tivoli Storage Productivity Center for Replication to Copy Services Manager, you need to back up the <code>rmserver.properties</code> file in case it becomes corrupt during the installation.</p> <p>If the properties file becomes corrupt, the Copy Services Manager GUI will not be accessible, or the login will say: <code>IWNG0003E: The user interface was unable to connect to the server. Wait a few minutes and try again. If problems persist contact the system administrator.</code></p> <p>If this situation occurs, it will be necessary to replace the Copy Services Manager <code>rmserver.properties</code> file with the version that you backed up from Tivoli Storage Productivity Center for Replication.</p>

Table 4. IBM Copy Services Manager Version 6.2.3 known issues and workarounds (continued)

Issue	Explanation and possible workaround
RACF LDAP is currently not supported.	LDAP using RACF cannot be supported because the underlying product libraries require full LDAP version 3 compliance. Specifically, it does not support most complex filters.
APAR OA56173 is required to run Safeguarded Copy sessions when managing the storage system without an HMC connection.	If you only have a z/OS connection (either FICON or IP to z/OS) without an HMC connection, then you cannot run Safeguarded Copy sessions until APAR OA56173 has been applied to the z/OS system.

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