

IBM Copy Services Manager



Release Notes

March 2017

Version 6 Release 1

IBM Copy Services Manager



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Note:

Before using this information and the product it supports, read the information in "Notices" on page 13.

Edition notice

This edition applies to Version 6, Release 1, Modification 5 of IBM Copy Services Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this document

This document contains the release notes in support of IBM® Copy Services Manager Version 6, Release 1, Modification 5.

What's new

The following functions are introduced in IBM Copy Services Manager Version 6.1.5:

Version 6, Release 1, Modification 5

This table provides the current technical changes and enhancements to Copy Services Manager as of March 2017.

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 6.1.5 (March 2017)

Function, feature, or fix	Description
Advanced LDAP configuration	You can now use the Copy Services Manager GUI to perform an advanced edit of your LDAP configuration directly within the <code>ldapRegistry.xml</code> file.
Support for adding, removing, and updating a user-defined group name for sessions in the Copy Services Manager GUI and CLI	You can now filter on the group name in either the GUI or the CLI. When you add a group name on a session, you can select from one of the existing group names. You can also use this feature to update and remove the group name from a session.
Support for importing a certificate for an IBM z/OS® host connection by using the GUI	You can upload a certificate for a z/OS host connection from within the Copy Services Manager GUI. This feature enables you to manage z/OS HyperSwap® from Copy Services Manager when it is running on an IBM DS8000® HMC. You can add the certificate to a new host connection, or update an existing, disconnected host connection.
Synchronize the <code>csmAuth</code> certificate between two Copy Services Manager servers by using either the CLI or the GUI	You can now use Copy Services Manager servers for remote LDAP authentication. You can also configure multiple Copy Services Manager servers for redundancy by having both servers start <code>csmAuth</code> with the same <code>key.jks</code> file. You can synchronize this file onto each server by using either the GUI or the CLI. This new feature is useful for environments where Copy Services Manager is installed on the HMC.

Table 1. What's new in Copy Services Manager Version 6.1.5 (March 2017) (continued)

Function, feature, or fix	Description
Hardened freeze support enabled on the multi-target Metro Mirror - Metro Mirror session	You can now issue a hardened freeze on a multi-target Metro Mirror - Metro Mirror session. Note: APAR OA52282 from z/OS is required to support a hybrid hardened freeze/HyperSwap configuration, where one leg is hardened freeze and the other is HyperSwap.
New chsystem command for updating properties in the <code>rmserver.properties</code> file	The new chsystem command can be used to change properties within the <code>rmserver.properties</code> file. You can also disable SSL remotely from the HMC using the Copy Services Manager chsystem command. Attention: While some customers need the option to disable SSL in their environment, doing so is not generally recommended. Carefully consider the security impact before you disable SSL.
New warning message when the no copy property is set in the <code>rmserver.properties</code> file	When you start Copy Services Manager, a warning message now displays if the no copy property is set in the <code>rmserver.properties</code> configuration file.
LDAP disabled by default for Copy Services Manager on z/OS installations	When you install Copy Services Manager on z/OS, the <code>csmAuth</code> server is disabled for LDAP. If you want to enable LDAP for z/OS, you can edit the <code>rmserver.properties</code> file.
Fix: Setting "cn=users.dc=" is no longer appended to the domain name when an Active Directory LDAP authentication type is used	Previous releases of Copy Services Manager append "cn=users.dc=" to the domain name when you are using an Active Directory LDAP authentication type. Copy Services Manager now only uses the information that is entered into the Advanced LDAP Configuration wizard. Note: LDAP configuration changes are still saved if you select Save in the wizard. However, the <code>ldapRegistry.xml</code> file changes are not updated if you only select Test .
Additional tasks that are specific to the DS8000 HMC	The following tasks are added to the Install Guide in "Using Copy Services Manager on the DS8000:" <ul style="list-style-type: none">• Exporting the Copy Services Manager license from the HMC to run on a separate server• Exporting a license from a stand-alone Copy Services Manager server and importing to the DS8000 HMC• Getting Copy Services Manager code updates onto the DS8000 HMC by using DSCLI commands

Table 1. What's new in Copy Services Manager Version 6.1.5 (March 2017) (continued)

Function, feature, or fix	Description
<p><i>IBM Copy Services Manager Command-line Interface User's Guide</i> now added to the product library</p>	<p>All of the command-line reference topics that are provided in the online product documentation in the IBM Knowledge Center are now also included in a CLI Guide PDF.</p> <p>See "Publications and related information" on page 5 for information on where to obtain this guide.</p>
<p><i>IBM Copy Services Manager z/OS FlashCopy Manager User's Guide</i> now includes messages</p>	<p>The messages for the z/OS FlashCopy® Manager utility are now provided as an appendix in the associated user's guide.</p> <p>See "Publications and related information" on page 5 for information on where to obtain this guide.</p>

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

IBM Copy Services Manager Support: http://www.ibm.com/support/entry/portal/product/system_storage/storage_software/storage_infrastructure_management/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.	V6.1.5 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 	V6.1.5 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.	V6.1.5 SC27-8998-00
<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.	V6.1.5 SC27-8032-01 V6.1.3 SC27-8032-00

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

Title	Description	Order number
<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>	These program directories are intended for system programmers who are responsible for program installation and maintenance. 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.	<i>IBM Copy Services Manager for z Systems Program Directory</i> V6.1.4 GI13-4517-03 V6.1.3 GI13-4517-02 V6.1.1 GI13-4517-01 V6.1.0 GI13-4517-00 <i>IBM Copy Services Manager Basic Edition for z Systems Program Directory</i> V6.1.4 GI13-4518-03 V6.1.3 GI13-4518-02 V6.1.1 GI13-4518-01 V6.1.0 GI13-4518-00
<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.	V6.1.4 GI11-2904-02 V6.1.3 GI11-2904-01
<i>IBM DSCLI on z/OS Program Directory</i>	This program directory is intended for system programmers who are responsible for program installation and maintenance. 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.	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/storage/support)	Find support-related information such as downloads, documentation, troubleshooting, and service requests and PMRs.
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.

Table 3. IBM Copy Services Manager related websites (continued)

Title	Description
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 6.1.5 and any associated workarounds.

Table 4. IBM Copy Services Manager Version 6.1.5 known issues and workarounds

Issue	Explanation and possible workaround
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.	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. Consult with IBM Support to ensure proper coverage of your required configuration.
When more than 256 Copy Services Manager sessions are assigned the same consistency group name, internal issues are encountered.	Limit the number of sessions with the same consistency group name to under 256. This issue will be addressed in a future release.
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.	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.
When the Global Mirror data for a session is exported, gaps might result with no data while the session was in a suspended state.	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. This code limitation has no current workaround.
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.	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. This is a code limitation with no current workaround.

Table 4. IBM Copy Services Manager Version 6.1.5 known issues and workarounds (continued)

Issue	Explanation and possible workaround
Copy Services Manager does not support local OS authentication.	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. 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.
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.	If you need to migrate Copy Services Manager from one server to another on z/OS, contact IBM Support. 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.
The Start H3H1H2/StartH3H2H1 command on a multi-target Metro Mirror - Global Mirror with Practice session receives a 0F52 hardware error.	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. 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.

Table 4. IBM Copy Services Manager Version 6.1.5 known issues and workarounds (continued)

Issue	Explanation and possible workaround
<p>The install and production root parameters are not properly named in the DS CLI install sample job IWNINST2.</p>	<p>The error lines in IWNINST2 have: CSMD_InstallRoot=/usr/lpp/IBM/CSMDSCLI CSMD_ProductionRoot=/opt/IBM/CSMDSCLI</p> <p>The correct parameter names are: CSM_InstallRoot=/usr/lpp/IBM/CSMDSCLI CSM_ProductionRoot=/opt/IBM/CSMDSCLI</p> <p>Change the parameter names before you run the install job.</p> <p>These parameters will be fixed in an upcoming PTF.</p>
<p>An HMC can only be set up for remote LDAP authentication against the Copy Services Manager instance that is running on the same HMC or a stand-alone server.</p>	<p>If a second server is needed for redundancy, it must be a stand-alone Copy Services Manager server.</p>
<p>You cannot have a hybrid configuration on a multi-target Metro Mirror - Metro Mirror session type, where one leg is hardened freeze, and the other is HyperSwap.</p>	<p>APAR OA52282 from z/OS is required to support a hybrid hardened freeze/HyperSwap configuration, where one leg is hardened freeze and the other is HyperSwap.</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 by adding the SIZE(2048) parameter to the RACDCERT statement when you generate a self-signed certificate. For more information, see the topic 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>

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