



# ADVANCED TECHNOLOGY GROUP (ATG)

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## **Accelerate with ATG Webinar** **Take Your CSM to the Next Level: What's New in** **IBM Copy Services Manager 6.3.10 & 6.3.11**

**Randy Blea**

*STSM – DS8000 Copy Services Software Architecture*

*CSM & DS8000 Automation*

[blead@us.ibm.com](mailto:blead@us.ibm.com)



## Accelerate with ATG Technical Webinar Series

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*Advanced Technology Group* experts cover a variety of technical topics.

**Audience:** Clients who have or are considering acquiring IBM Storage solutions. Business Partners and IBMers are also welcome.

To automatically receive announcements of upcoming Accelerate with IBM Storage webinars, Clients, Business Partners and IBMers are welcome to send an email request to [accelerate-join@hursley.ibm.com](mailto:accelerate-join@hursley.ibm.com).



### 2024 Upcoming Webinars – Register Here!

[Get Up To Speed on IBM Storage Virtualize 8.6.3 & 8.7 - Latest Features and Enhancements](#) - July 16th, 2024

[IBM C-Type SAN Analytics: Real-time and Always-on SAN Performance visibility at Scale](#) – July 23<sup>rd</sup>, 2024

[Revolutionizing Data Archiving: IBM S3 Deep Archive on Diamondback](#) – July 25<sup>th</sup>, 2024

[IBM Fusion and RedHat OpenShift Virtualization](#) – August 6<sup>th</sup>, 2024

### Important Links to Bookmark:



ATG Accelerate Site: <https://ibm.biz/BdSUFN>

ATG MediaCenter Channel: <https://ibm.biz/BdfEgQ>

## Offerings

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### Client Technical Workshops

- **IBM Cyber Resiliency with IBM Storage Defender: July 17<sup>th</sup> - 18<sup>th</sup> – VIRTUAL**
- **IBM Storage Scale System & Storage Scale Workshop: August 8<sup>th</sup> in San Jose, CA**
- **IBM Fusion & Ceph: A Deep Dive into Next Gen Storage: August 21<sup>st</sup> – 22<sup>nd</sup> in Atlanta, GA**
- **IBM FlashSystem Deep Dive & Advanced Functions: September 18<sup>th</sup> – 19<sup>th</sup> in Paramus, NJ**
- IBM DS8900F Advanced Functions

### TechZone Test Drives / Demos

- IBM Storage Scale and Storage Scale System GUI
- IBM Storage Virtualize Test Drive
- IBM DS8900F Storage Management Test Drive
- Managing Copy Services on the DS8000 Using IBM Copy Services Manager Test Drive
- IBM DS8900F Safeguarded Copy (SGC) Test Drive
- IBM Cloud Object Storage Test Drive - (Appliance based)
- IBM Cloud Object Storage Test Drive - (VMware based)
- IBM Storage Protect Live Test Drive
- IBM Storage Ceph Test Drive - (VMware based)

Please reach out to your IBM Representative or Business Partner for more information.

**\*IMPORTANT\* The ATG team serves clients and Business Partners in the Americas, concentrating on North America.**

# Registration Open!

## Storage @ IBM TechXchange Conference 2024

October 21-24, 2024

Mandalay Bay | Las Vegas  
#IBMTechXchange

### Key Learnings

- Practical how-to advice
- Patterns and best practices
- Success stories, IBM PoV, proven techniques

### Featured Products

IBM Storage Defender

IBM Storage Fusion

IBM Storage Scale + IBM Storage Ceph

IBM Tape + IBM SAN

IBM Storage FlashSystem + IBM Storage DS8000

Collaborate. Learn. Play.

### Community

IBM Champions

User Groups

Tech Peers

Business Partners



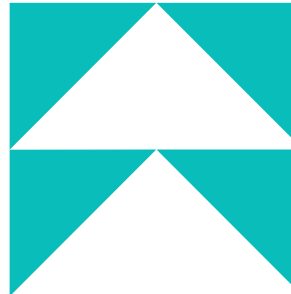
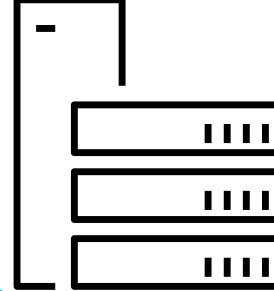
### Sandbox

Network

Learn

Collaborate

Play



### Accelerate your Career

Labs (Instructor-Led, Self-paced)

IBM Certification Testing

Earn up to 25 hours in CPE credits

### Breakout Sessions

Trends and Directions

User Groups

Product Deep Dives

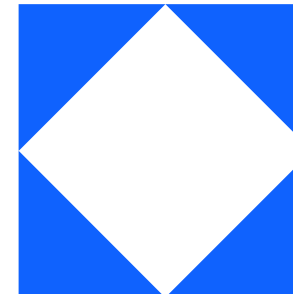
Meet the Expert

Professional Development

Show the Code

Birds of a Feather

Academic/Research



### Roadmaps

Go deep with people in the know and set the stage for where IBM is going in the future



<https://www.ibm.com/community/ibm-techxchange-conference/>

Game On!



# Accelerate with ATG Survey

Please take a moment to share your feedback with our team!

You can access this 6-question survey via [Menti.com](https://www.menti.com) with code **1708 6924** or

Direct link <https://www.menti.com/alwhyze7z1gz>

or

QR Code



## Fun Question: What do you do to get rid of stress?

34 responses





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## **Accelerate with ATG Webinar** **Take Your CSM to the Next Level: What's New in** **IBM Copy Services Manager 6.3.10 & 6.3.11**

**Randy Blea**

*STSM – DS8000 Copy Services Software Architecture*

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## Meet the Speaker

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**Randy Blea** is a Senior Technical Staff Member and software architect at IBM with over 25 years of experience in the field of copy services. His responsibilities include setting the strategic vision and technical architecture for IBM Copy Services Manager, an enterprise data center management solution for copy services and disaster recovery management on IBM storage devices.

In his role, Randy has gained experience in the agile development of Enterprise products using Java and deploying solutions across multiple platforms, from Distributed Systems to z/OS Systems. Randy has promoted innovation throughout his technical career earning the title of IBM Master Inventor for his contributions to the IBM patent portfolio as well as his mentorship of other IBM employees.

Recently, Randy has taken on an additional role in helping to deliver automation solutions using python and Ansible RedHat for DS8000 and Copy Services Manager customers.

## Session Objectives

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- Quick Product Overview
- What's New in 6.3.10.0



# IBM Copy Services Manager

## Simplify Your Replication

Provides Automation for Advanced Copy Services

Single Point of Control Across Environment

Designed to Scale For Thousands of Relationships

RPO Monitoring and Historical Reporting



Easy to install. Easy to Setup. Easy to Manage.

## One Step Recovery

Simplifies the recovery process in multi-site replication, protecting customer data while keeping costs down



Provides support for both distributed and mainframe data  
Supports DS8900F and Spectrum storage systems

Installable across all major platforms:  
Windows, Linux, AIX, z/OS, Linux for z Systems  
And now pre-installed on the DS8000 HMC



### Disaster Recovery and High Availability



Manages z Systems HyperSwap and supports Power HA HyperSwap to create highly available solutions in Metro Mirror and Metro Global Mirror Environments

### Advanced Built in Scheduler



Schedule multiple actions across multiple sessions!! Advanced features such as checking RPO, waiting for states and now running External Scripts

### Protect Your Data



Warning Prompts  
User Roles  
Site Awareness  
Dynamic Images  
Event and Threshold Alerts  
Dual Control Support

# What's New in IBM Copy Services Manager V6.3.10

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Remote CLI installer for Distributed Systems

[IDEA CSM-I-79](#) – Support for setting multiple times on Daily/Weekly Scheduled Task

Support for FlashSystems Restore to Production and Refresh Thin Clones

Associate Multiple Sysplexes on 4-Site Replication Enhanced Session

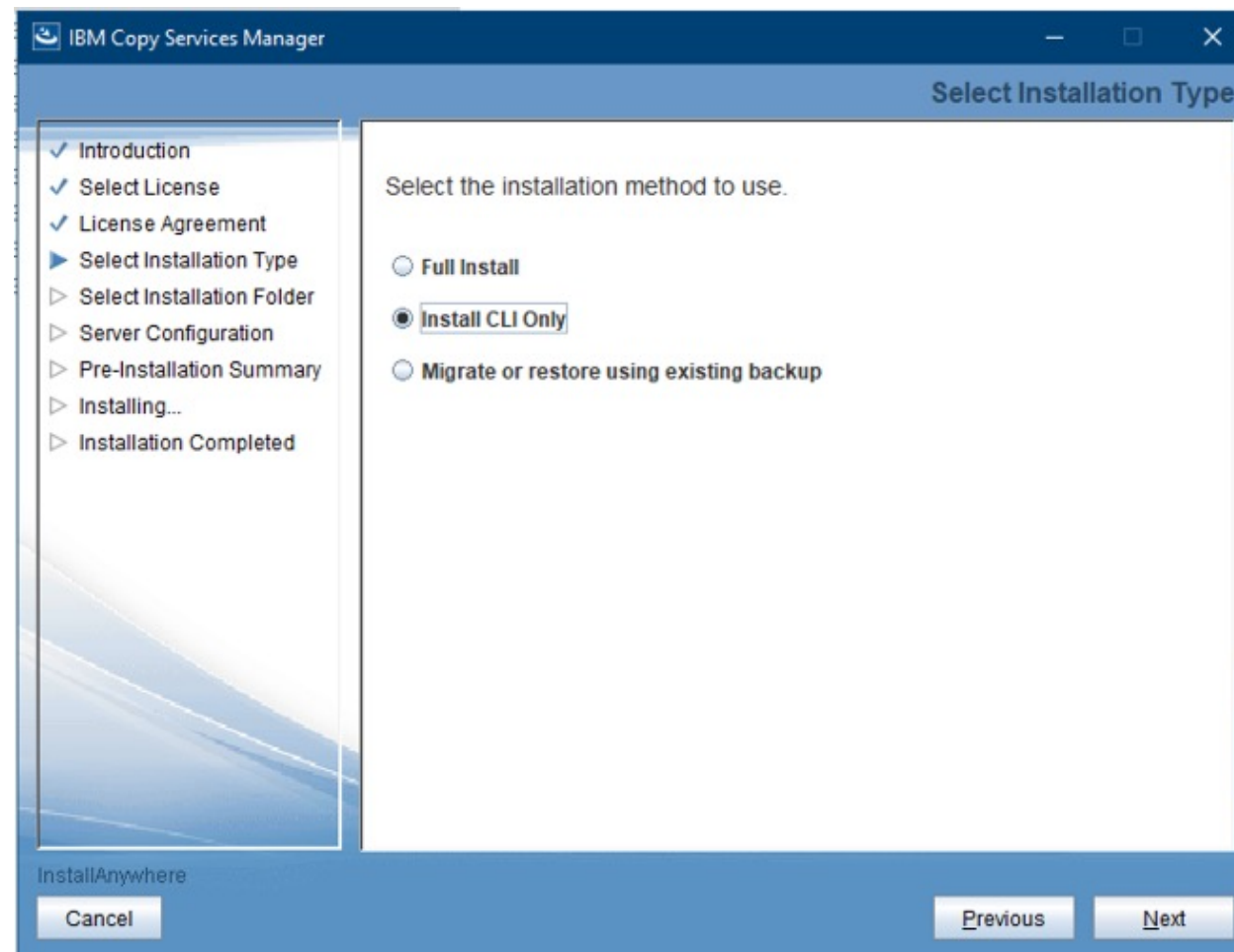
Support for FlashSystems Asynchronous Policy Based Replication Recovery Test Mode

New Flash 3<sup>rd</sup> Site and Backup 4<sup>th</sup> Site commands on 4-Site Replication Enhanced session

# Remote CLI installer for Distributed Systems

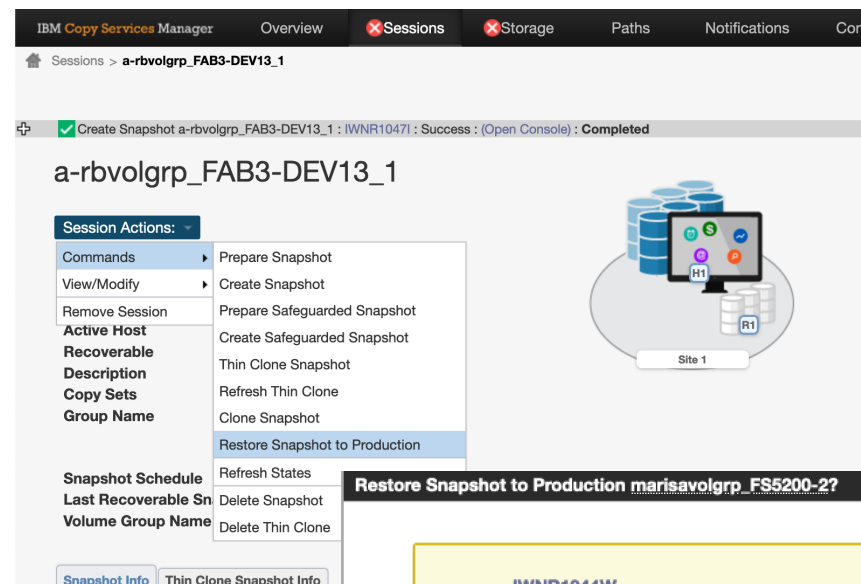
- The CSM CLI is installed on the same system as the server using the installation files
- Prior to 6.3.10 you could run the CSM CLI from a remote system by downloading an archive file and extracting it to that remote system
- Starting with CSM 6.3.10 you can now install the CSM CLI remotely using the installation file itself. The installation file will then be used for upgrading an existing CLI installation for future releases.
- The installation of the remote CLI can be done via the graphical installer or silent installer as in the example below.

```
cmd /c csm-setup-6.3.x-win.exe -i silent
-DLICENSE_ACCEPTED=true -
DSCLI_ONLY_INSTALL=true
```



# Support for FlashSystems Snapshot Restore to Production

- CSM has supported the creation of Snapshot and Safeguarded Snapshots for FlashSystems since their release.
- Starting with 6.3.10 you can now take advantage of the new support on Snapshots to Restore a Snapshot of Safeguarded Snapshot back onto the Source volumes in the Volume Group.
- Caution should be taken prior to issuing the Restore Snapshot to Production command as this will overwrite the data for the production volumes with the data in the Snapshot.



## Restore Snapshot to Production marisavolgrp\_FS5200-2?

**IWNR1944W**  
 [Mar 26, 2024, 10:02:41 AM] This command will restore data from the selected snapshot to the source volumes in session marisavolgrp\_FS5200-2. Note that this will overwrite the data on the source volumes! Do you want to continue?

**This command will overwrite the data on the production volumes. Are you sure you want to continue?**

Snapshot Time	Snapshot Name	Copy Sets	Safeguarded
2024-03-18 14:17:27 EDT	csmRecoveryTest_1710785849	5	No
2024-03-15 16:23:39 EDT	csmRecoveryTest_1710534222	5	No

## Support for FlashSystems Snapshot Refresh Thin Clones

- To access the data on both Snapshots and Safeguarded Snapshots you have to create a Clone or Thin Clone which creates a new volume group with host accessible volumes.
- However, if you're doing regular tests of snapshots creating a new Thin Clone for each Snapshot means that you have to mount the hosts to a different set of volumes each time.
- With the new Refresh Thin Clones support, you can choose an existing Thin Clone and refresh the data on that with the same or a different Snapshot. The hosts can then remain attached to the same volumes.

The screenshot shows the IBM Copy Services Manager interface. The top navigation bar includes 'Overview', 'Sessions', 'Storage', 'Paths', 'Notifications', and 'Consolidation'. The main content area is titled 'randyvolgrp2\_FS5200-1'. A 'Session Actions' dropdown menu is open, showing the following options:

- Commands
  - Prepare Snapshot
- View/Modify
  - Create Snapshot
- Remove Session
  - Prepare Safeguarded Snapshot
- Active Host
  - Create Safeguarded Snapshot
- Recoverable
  - Thin Clone Snapshot
  - Refresh Thin Clone
- Description
  - Clone Snapshot
- Copy Sets
  - Restore Snapshot to Production
- Group Name
  - Refresh States
- Snapshot Schedule
  - Delete Snapshot
- Last Recoverable Snapshot
  - Delete Thin Clone
- Volume Group Name

The screenshot shows a confirmation dialog titled 'Refresh Thin Clone randyvolgrp2-0?'. The dialog contains a warning icon and the following text: 'This command will overwrite the data on the volumes in the thin clone volume group randyvolgrp2-0 with the snapshot selected below. Are you sure you want to continue?'. Below the warning is a table with the following data:

Snapshot Time	Safeguarded
2024-03-21 09:56:17 CDT	No

At the bottom of the dialog are 'Yes' and 'No' buttons.

## Support for FlashSystems Asynchronous Policy Based Replication Recovery Test Mode

- In previous releases, in order to test host connectivity and other disaster processes, the Asynchronous Replication would need to be suspended while tests at the remote site were done, leading to potentially long resynch times when the test completed.
- In CSM 6.3.10 you can now issue the “**Start Recovery Test**” command to put the session in a recovery test mode.
- While in the **Recovery Test Mode** the hosts can attach and write to the target volumes. Updates will continue to the target site, but Consistency Groups will NOT be forming.
- When the test is complete issue the **Stop Recovery Test**.
- Prior to entering Recovery Test Mode, the session will create a snapshot at the remote site. This snapshot can be used to restore the targets to a consistent point if a disaster occurs during the testing. Or the session can be recovered to a diverged copy of the data.

The screenshots illustrate the process of starting and stopping a Recovery Test Mode for an asynchronous policy-based replication session in IBM Copy Services Manager.

**Top Screenshot:** Shows the session configuration for 'RC\_randyvolgrp2\_FS5200-1'. The 'Session Actions' menu is open, highlighting 'Start Recovery Test'. The session details include:
 

- Status: Warning
- State: Recovery Test Mode
- Session Type: Async Policy Based Replication
- Active Host: H1
- Recoverable: Yes
- Description: Automatically created AsyncPBR session(modify)
- Copy Sets: 3 (view)
- Group Name: Automatically Generated Session

 A diagram shows Site 1 (H1) connected to Site 2 (H2).

**Middle Screenshot:** Shows the session after the 'Start Recovery Test' command has been executed. The status is 'Completed' and the state is 'Recovery Test Mode'. The 'Session Actions' menu is open, highlighting 'Stop Recovery Test'. The session details are:
 

- H1 System Name: FS5200-1
- H2 System Name: FS5200-2
- Volume Group Name: randyvolgrp2
- Replication Policy: csm\_test

 A progress bar at the bottom right shows 'Progress' at '00:00:08'.

**Bottom Screenshot:** Shows the session after the 'Stop Recovery Test' command has been executed. The status is 'Completed' and the state is 'Recovery Test Mode'. The 'Session Actions' menu is open, highlighting 'Stop Recovery Test'. The session details are:
 


- H1 System Name: FS5200-1
- H2 System Name: FS5200-2
- Volume Group Name: randyvolgrp2
- Replication Policy: csm\_test

 A diagram shows Site 1 (H1) with a warning icon.

## IDEA CSM-I-79 – Support for Setting Multiple Times on Daily/Weekly Scheduled Task

- The CSM Scheduled Task provides a number of options for setting a schedule: Hourly, Daily, or no scheduled at all.
- Starting with the 6.3.10 release, when setting up a Daily/Weekly schedule, you can now add multiple times during the days chosen that the task should run.
- To add additional times, click on the “Add Another Time” button.
- To remove times, click on the “Remove” button next to the time you want to remove.
- Times will be reorder chronologically after the task is saved.

Modify a Scheduled Task



### How often do you want the task to run? ?

Schedule

Hourly

Every (mins/hours/days):

Daily / Weekly

Sun  Mon  Tue  Wed  Thu  Fri  Sat

Time [CDT]:

Time [CDT]:

Time [CDT]:

No schedule

◀ Back
Next ▶
Cancel

## Associate Multiple Sysplexes on 4-Site Replication Enhanced Session

- Customers can associate a System of Sysplex to a session today in order to manage HyperSwap, Hardened Freeze.
- Today this is limited though to a single system/sysplex, and another session would need to be created to handle associating a separate system/sysplex when there are shared volumes across the sysplexes.
- In CSM 6.3.10, for the 4-Site Replication Enhanced session type, you can now associate multiple systems/sysplexes to cover shared volumes.
- When the session loads the HyperSwap/Hardened Freeze configuration it will load it across all associated sysplexes.
- NOTE: Hardware Reserves is still required to support shared volumes across sysplexes.

View / Modify Properties for session SSEnhanced4SiteH1\_MS

Session Options **H1-H2 Options** H3-H4 Options HyperSwap Options H1-J3 Options H2-J3 Options H3-J1 Options H2-J1 Options H1-J2 Options  
H4-J1 Options H3-J2 Options H1-J4 Options H2-J4 Options H3-J4 Options H4-J2 Options H4-J3 Options Journal Options

**Metro Mirror Options:**

**z/OS Management:**  
System or sysplex  
No association  
SVPLN68  
Unknown  
SVPLEX1  
 Manage H1-H2 with HyperSwap

OK Cancel



## New Flash 3<sup>rd</sup> Site and Backup 4<sup>th</sup> Site Commands on 4-Site Replication Enhanced Session

- Customers using the 4-Site Enhanced session are likely to want to create a FlashCopy at whatever site is currently the 3<sup>rd</sup> site and an SGC Backup at whatever site is currently the 4<sup>th</sup> Site.
- While this can be done with multiple Scheduled Tasks, given the flexibility of the session type to handle various failover scenarios, any site at any time could be the 3<sup>rd</sup> or 4<sup>th</sup> site meaning there would need to be a lot of Scheduled Tasks.
- In addition to needing a lot of tasks, the enablement/disablement would need to be coordinated or automated all depending on which is the 3<sup>rd</sup> and 4<sup>th</sup> site.
- If the right task was not enabled, this could result in missing SGC backups.

The screenshot displays the IBM Copy Services Manager interface for a session named '4SiteEnhancedWithHS'. The interface includes a navigation bar with tabs for Overview, Sessions, Storage, Paths, Notifications, Console, and Settings. The main content area shows the session details and a diagram of the four-site replication topology.

**Session Actions:**

- Commands
  - Backup 4th Site
  - Flash 3rd Site
- View/Modify
  - Start...
- Export
  - Suspend...
- Remove Session
  - Stop...
- Description
  - Refresh States
- Copy Sets
  - Terminate...

**Consistency Groups:**

Consistency Group	State
H3-H4 Consistency Group	default (modify)
H1-J3 Consistency Group	d0 (modify)
H1-J2 Consistency Group	d1 (modify)
H2-J3 Consistency Group	d2 (modify)
H3-J4 Consistency Group	d3 (modify)
H1-H2 Consistency Group	default (modify)
H1-J4 Consistency Group	d4 (modify)
H2-J4 Consistency Group	d5 (modify)
H3-J2 Consistency Group	d6 (modify)
H4-J3 Consistency Group	d7 (modify)
H2-J1 Consistency Group	d8 (modify)
H4-J1 Consistency Group	d9 (modify)
H3-J1 Consistency Group	da (modify)
H4-J2 Consistency Group	db (modify)

The diagram illustrates four sites (Site 1, Site 2, Site 3, Site 4) connected in a replication topology. Site 1 is the primary site, and Sites 2, 3, and 4 are secondary sites. Arrows indicate data flow between sites, and a context menu is shown over Site 3, highlighting the 'Flash 3rd Site' command.

## New Flash 3<sup>rd</sup> Site and Backup 4<sup>th</sup> Site Commands on 4-Site Replication Enhanced Session

- Two new commands have been created to minimize the complexity of taking practice flashes and SGC backups.
- Flash 3<sup>rd</sup> Site** and **Backup 4<sup>th</sup> Site** were created so that no matter which site is production, or which configuration you're running, the session will determine which site is the 3<sup>rd</sup> and which is the 4<sup>th</sup> site.
- Only a single set of Scheduled Tasks are now needed with the simple command.
- No need to enable/disable tasks. No need to for the task to issue multiple actions across both the 4-site and FC/SGC sessions.

The screenshots show the IBM Copy Services Manager interface for a session named '4SiteEnhancedWithHS'. The interface includes a navigation bar with tabs for Overview, Sessions, Storage, Paths, Notifications, Console, and Settings. The main content area displays the session details and a diagram of the four-site replication topology. The diagram shows Site 1, Site 2, Site 3, and Site 4, each with its own storage and replication components. Arrows indicate the flow of data between sites.

The 'Session Actions' menu is open, showing the following options:

- Commands
  - Backup 4th Site
  - Flash 3rd Site
- View/Modify
  - Start...
- Export
  - Flash 3rd Site
- Remove Session
  - Suspend...
  - Stop...
- Description
  - Refresh States
- Copy Sets
- Group Name
  - Terminate...

The table of consistency groups is as follows:

Consistency Group	Group Name	Group Name
H3-H4 Consistency Group	d6	default (modify)
H1-J3 Consistency Group	d0	d0 (modify)
H1-J2 Consistency Group	d1	d1 (modify)
H2-J3 Consistency Group	d2	d2 (modify)
H3-J4 Consistency Group	d3	d3 (modify)
H1-H2 Consistency Group	del	default (modify)
H1-J4 Consistency Group	d4	d4 (modify)
H2-J4 Consistency Group	d5	d5 (modify)
H3-J2 Consistency Group	d6	d6 (modify)
H4-J3 Consistency Group	d7	d7 (modify)
H2-J1 Consistency Group	d8	d8 (modify)
H4-J1 Consistency Group	d9	d9 (modify)
H3-J1 Consistency Group	da	da (modify)
H4-J2 Consistency Group	db	db (modify)

## New Flash 3<sup>rd</sup> Site and Backup 4<sup>th</sup> Site Commands on 4-Site Replication Enhanced Session

- The two new commands work by associating the SGC session (already supported) and FC session (new to 6.3.10) to the 4-site session. This association allows the 4-site session to know which FC or SGC session to use for the command based off its current state.
- To setup the solution, create an FC and/or SGC session to any site you want to take a Flash or Backup...and then associate it to the 4-Site session.
- When issued the “Flash 3<sup>rd</sup> Site” command does the following internally:
  - Validates that the RPO for the GM role pair to the 3<sup>rd</sup> site is below 10 secs.
  - Pauses the GM role pair to the 3<sup>rd</sup> Site with consistency.
  - Once Paused it looks up the associated FC session for role that is currently the 3<sup>rd</sup> site and issues the Flash.
  - Resumes the GM role pair to the 3<sup>rd</sup> Site.
- When issued the ”Backup 4<sup>th</sup> Site” command does the following internally:
  - Validates that the RPO for the GM role pair to the 3<sup>rd</sup> site is below 10 secs.
  - Issues a Pause with Consistency to the GM role pair to the 4<sup>th</sup> Site.
  - Issues a Pause with Consistency to the GM role pair to the 3<sup>rd</sup> Site.
  - Using the cascaded GM solution, once the GM to the 4<sup>th</sup> site. pauses, the session will automatically resume the GM to the 3<sup>rd</sup> site, thus minimizing the time DR is paused.
  - Looks up the associated SGC session for role that is currently the 4<sup>th</sup> site and issues the Backup.
  - When the backup completes the session then Resumes the GM role pair to the 4<sup>th</sup> Site.

**Associate a session to this FlashCopy session**

Associate another session to this session to coordinate actions between sessions.

**Which session should be associated to this FlashCopy session?**

Filter...

Name	Type
4SiteEnhanced	MT-MM-GM
4SiteEnhancedWithHS	MT-MM-GM
8kGM	GM

**Which role pair in the session selected above should be associated to the session?**

Role Pair:

**Which role in the selected role pair is the H1 volume in the FlashCopy session?**

Role:

# What's New in IBM Copy Services Manager V6.3.11

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[IDEA CSM-I-139](#) – Allow larger size volumes for FC targets and SGC recovery volumes

Support for connecting to DS8000 storage systems using z/OS Passtickets

[IDEA CSM-I-155](#) – LSS level selection for ESESizer and SGCSizer

Support Scheduled Task Run External Script action with SSH key pair

[IDEA CSM-I-162](#) – Display Role Pair on DS8000 Global Mirror Info Tab

[IDEA CSM-I-160](#) – Automatically reconnect active and standby servers after a disconnect

Support LDAP for z/OS RACF

## IDEA CSM-I-139 – Allow Larger Size Volumes for FC Targets and SGC Recovery Volumes

- Today a FlashCopy session target and a Safeguarded Copy session recovery volume, have to be the same size as the source volume.
- Customers have requested the ability to use FlashCopy for migration.
- In 6.3.11, a new “FlashCopy Migration” session is now available which allows customers to define targets with a larger size.
- Customers have also requested allow Safeguarded Copy recovery volumes of a larger size.
- Having larger SGC recovery volumes allows customers to setup a pool of volumes that could be a recovery volume for any of their volumes, in case they need to recover only one, or a subset of volumes, such as with products like IZBR.

**Create Session**

Hardware type: DS8000, DS8000, ESS 800

Session type: FlashCopy Migration

Choose Session Type

- Monitor
- ESESizer
- SGCSizer
- Point in Time
- FlashCopy
- FlashCopy Migration**
- Safeguarded Copy
- Synchronous
- Metro Mirror Single Direction
- Metro Mirror Failover/Fallback

**\*Host1 volume**  
DS8000:2107.GXZ91:VOL:0200 (CSM200)

**Volume Details**  
 User Name: CSM200  
 Full Name: DS8000:2107.GXZ91:VOL:0200  
 Type: 3390  
 Capacity: 100 Cyls  
 Protected: No  
 Space Efficient: No  
 z/OS Connection: No  
 Volume WWN: 6005076307FFD7A30000000000000200  
 Device Number: N/A

**\*Target1 volume**  
DS8000:2107.GXZ91:VOL:6400

**Volume Details**  
 User Name: DS8000:2107.GXZ91:VOL:6400  
 Full Name: DS8000:2107.GXZ91:VOL:6400  
 Type: 3390  
 Capacity: 60102 Cyls  
 Protected: No  
 Space Efficient: No  
 z/OS Connection: No  
 Volume WWN: 6005076307FFD7A300000000000006400  
 Device Number: N/A

OK Cancel

**View / Modify Properties for session SGC\_site4**

Session Options Backup Options **H1-R1 Options**

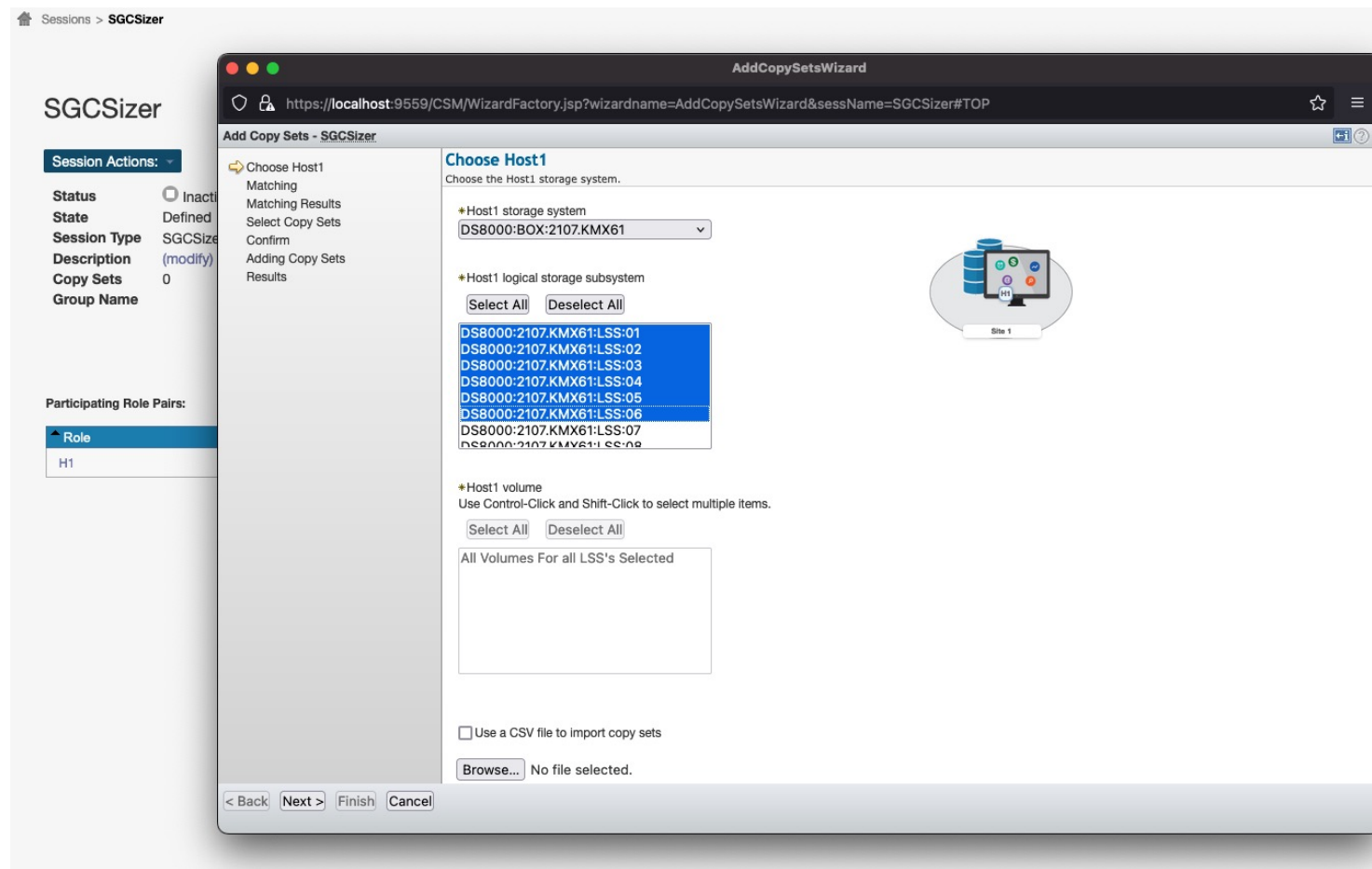
**Backup Recovery:**

- No Copy
- Persistent
- Allow Larger Target Volumes

OK Cancel

## IDEA CSM-I-155 – LSS Level Selection for ESESizer and SGCSizer

- Both the ESESizer and SGCSizer sessions only require a single volume in the copy set.
- In previous releases, while you could multi-select all the volumes in an LSS, you had to go through the wizard another time to choose the volumes in a different LSS.
- In 6.3.11, you can now multi-select at the LSS level.
- When multi-selecting LSSs, all volumes in the selected LSS will get added to the session.
- In addition, when single selecting an LSS, there are new Select All or Deselect All buttons allowing for easier selection.



## IDEA CSM-I-162 – Display Role Pair on DS8000 Global Mirror Info Tab

- CSM 6.3.9 and DS8000 9.4 introduced the ability to have more than 1 active GM role pair in a session.
- Both the Global Mirror – Global Mirror session (which defines a multi-target Global Mirror relationship), as well as the 4-Site Replication Enhanced session (which defines a cascaded Global Mirror relationship), might have more than one active Global Mirror relationship.
- When there is more than one Global Mirror relationship, the Global Mirror Info tab will display the details for each of the Global Mirror sessions on the hardware.
- Starting with 6.3.11, a new “Role Pair” field will now display with each entry, so that you can easily tell which details are for what Role Pair in the session.

MT-GMGM

Session Actions: ▾

Status  Normal  
 State Prepared  
 Session Type Global Mirror - Global Mirror  
 Active Host H1  
 Recoverable Yes  
 Description (modify)  
 Copy Sets 1 (view)  
 Group Name

H1-J3 Consistency Group 3 (modify)  
 H1-J2 Consistency Group 6 (modify)  
 H2-J3 Consistency Group default (modify)  
 H3-J2 Consistency Group 81 (modify)  
 H2-J1 Consistency Group default (modify)  
 H3-J1 Consistency Group 41 (modify)

Role Pairs Info Global Mirror Info

View Global Mirror Data Export Global Mirror Data

Global Mirror Master: DS8000:2107.KMX61:LSS:C0

Role Pair: H1-J3 ←  
 Last Master Consistency Group Time: Jun 21, 2024, 3:35:44 PM CDT  
 Master Time During Last Query: Jun 21, 2024, 3:35:45 PM CDT  
 Data Exposure: 1.52 seconds

Session ID: 0x3  
 Master State:  Running  
 Unsuccessful CG's since last successful CG: 0

CG Interval Time: 0 seconds  
 Max Coordination Interval: 50 milliseconds  
 Max CG Drain Time: 240 seconds

	Previous Query	Total
Unsuccessful CGs	0 (0%)	0 (0%)
Successful CGs	60 (100%)	62 (100%)

Global Mirror Master: DS8000:2107.KMX61:LSS:C0

Role Pair: H1-J2 ←  
 Last Master Consistency Group Time: Jun 21, 2024, 3:35:40 PM CDT  
 Master Time During Last Query: Jun 21, 2024, 3:35:40 PM CDT  
 Data Exposure: 1.50 seconds

Session ID: 0x6  
 Master State:  Running  
 Unsuccessful CG's since last successful CG: 0

CG Interval Time: 0 seconds  
 Max Coordination Interval: 50 milliseconds  
 Max CG Drain Time: 240 seconds

	Previous Query	Total
Unsuccessful CGs	0 (0%)	0 (0%)
Successful CGs	61 (100%)	63 (100%)

## Support LDAP for z/OS RACF

- CSM has always supported both Basic users as well as LDAP users.
- Starting with 6.3.11, CSM now supports the ability to define an LDAP server running on z/OS with the SDBM backend.
- This setup can be done through the Advanced Setup tab for LDAP using the following XML, updating the bold values for your environment.
- This support provides mainframe customers the ability to setup CSM on a Distributed server while still using the same RACF users defined on the z/OS system with the volumes that CSM is managing.

The screenshot displays the 'LDAP Configuration' window with the 'Advanced' tab selected. The 'Configuration' section shows XML code for defining an LDAP registry. The code includes a `<ldapRegistry>` block with attributes for `baseDN`, `bindDN`, `bindPassword`, `host`, `id`, `ldapType`, and `port`. Below the XML, there is a 'Bind Password' field with an 'Enter' button and a 'Load' button. A 'Test' button is visible at the bottom of the configuration area.

```

1 <server description="IBM Copy Services Manager LDAP Registry">
2
3 <ldapRegistry baseDN="profiletype=user,sysplex=PLEXNAME" bindDN="racfid
   =csmusr,profiletype=user,sysplex=SVPLEX1" bindPassword
  ="{xor}asBSC124==" host="hostname.domain.com" id="ldap" ldapType
   ="IBM Tivoli Directory Server" port="389" realm="RACFRealm">
4
5 <idsFilters groupFilter="racfid" <server description="IBM Copy Services Manager LDAP Registry">
   groupMemberIdMap="racfconne <ldapRegistry baseDN="profiletype=user,sysplex=PLEXNAME"
   ="racfid=%v" userIdMap="*:r bindDN="racfid=csmusr,profiletype=user,sysplex=SVPLEX1" bindPassword="{xor}asBSC124=="
6 </ldapRegistry> host="hostname.domain.com" id="ldap" ldapType="IBM Tivoli Directory Server" port="389"
7 </ldapRegistry> realm="RACFRealm">
8
9 <idsFilters groupFilter="racfid" <ldapRegistry baseDN="profiletype=user,sysplex=PLEXNAME"
   groupMemberIdMap="racfconne bindDN="racfid=csmusr,profiletype=user,sysplex=SVPLEX1" bindPassword="{xor}asBSC124=="
   ="racfid=%v" userIdMap="*:r host="hostname.domain.com" id="ldap" ldapType="IBM Tivoli Directory Server" port="389"
   userIdMap="*:racfid"/> realm="RACFRealm">
10
11 </ldapRegistry> <idsFilters groupFilter="racfid=%v" groupIdMap="*:racfid"
   groupMemberIdMap="racfconnectgroupname:racfgroupuserids" userFilter="racfid=%v"
   userIdMap="*:racfid"/>
12
13 </ldapRegistry> <federatedRepository>
14
15 <extendedProperty dataType="String" entityType="PersonAccount" name="racfid"/>
16
17 <extendedProperty dataType="String" entityType="Group" name="racfid"/>
18
19 <primaryRealm name="FederatedRealm">
20
21 <participatingBaseEntry name="profiletype=user,sysplex=PLEXNAME"/>
22
23 <userDisplayNameMapping inputProperty="racfid" outputProperty="racfid"/>
24
25 <userSecurityNameMapping inputProperty="racfid" outputProperty="racfid"/>
26
27 <groupSecurityNameMapping inputProperty="uniqueName" outputProperty="uniqueName"/>
28
29 <uniqueGroupIdMapping inputProperty="uniqueName" outputProperty="uniqueName"/> </
   primaryRealm> </federatedRepository>
30
31 </server>

```



## Support for Connecting to DS8000 Storage Systems using z/OS Passtickets

- Today CSM supports connecting to the DS8000 storage system using a userid and a static password.
- With most customers now requiring rolling passwords for security, this becomes difficult to have to modify this password across all storage system connections when the password changes.
- Starting with CSM 6.3.11, CSM can now connection to the DS8000 with a z/OS Passticket.
- Users in RACF can be setup with a Passticket key which can be added to the CSM DS8000 connection instead of a password. Every time CSM attempts to connect to the storage system, a new Passticket is created to authenticate to RACF. This means the password is ALWAYS different and doesn't need to be modified in CSM.
- To support DS8000 Passticket connections, the DS8000 must be setup for LDAP for z/OS RACF with the SDBM backend.

The screenshot shows the 'Add Storage System Wizard' web interface. The browser address bar displays 'https://localhost:9559/CSM/WizardFactory.jsp?wizardname=AddSubsystemWizard#TOP'. The page title is 'Add Storage System Wizard'. The main content area is titled 'Add Storage System' and includes a navigation pane on the left with options: 'Type', 'Connection', 'Adding Storage System', and 'Results'. The 'Connection' step is active, showing a 'DS8000' server icon. The 'Connection' section prompts the user to 'Enter connection information for the DS8000 storage system.' It is divided into three main sections: 'Primary HMC', 'Secondary HMC (Optional)', and 'Credentials'. Under 'Primary HMC', there is a field for 'IP Address/Domain Name' with the value '9.12.39.132'. Under 'Secondary HMC (Optional)', there is a field for 'IP Address/Domain Name' with the value '9.12.39.133'. Under 'Credentials', there is a field for 'Username' with the value 'CSMUSR', a field for 'Password or Passticket Key' (masked with dots), and a field for 'Application Name (Passticket Only)' with the value 'LDAPSRV'. At the bottom of the wizard, there are navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

## Support Scheduled Task Run External Script Action with SSH Key Pair

- The Scheduled Task Action ‘Run External Script’ allows customers today to execute external scripts via an SSH userid / password.
- Starting with 6.3.11, customers can now setup an SSH key pair for the Run External Script action instead of using a static password.
- To setup an SSH key you can now define an External Server connection which can be used across multiple Scheduled Tasks.
- If the server connection is setup for an SSH key connection, you can then export the key and apply that key on the server that will be called by the Scheduled Task.

The screenshot displays the IBM Copy Services Manager interface. The main window shows the 'Scheduled Tasks' section with a table of tasks:

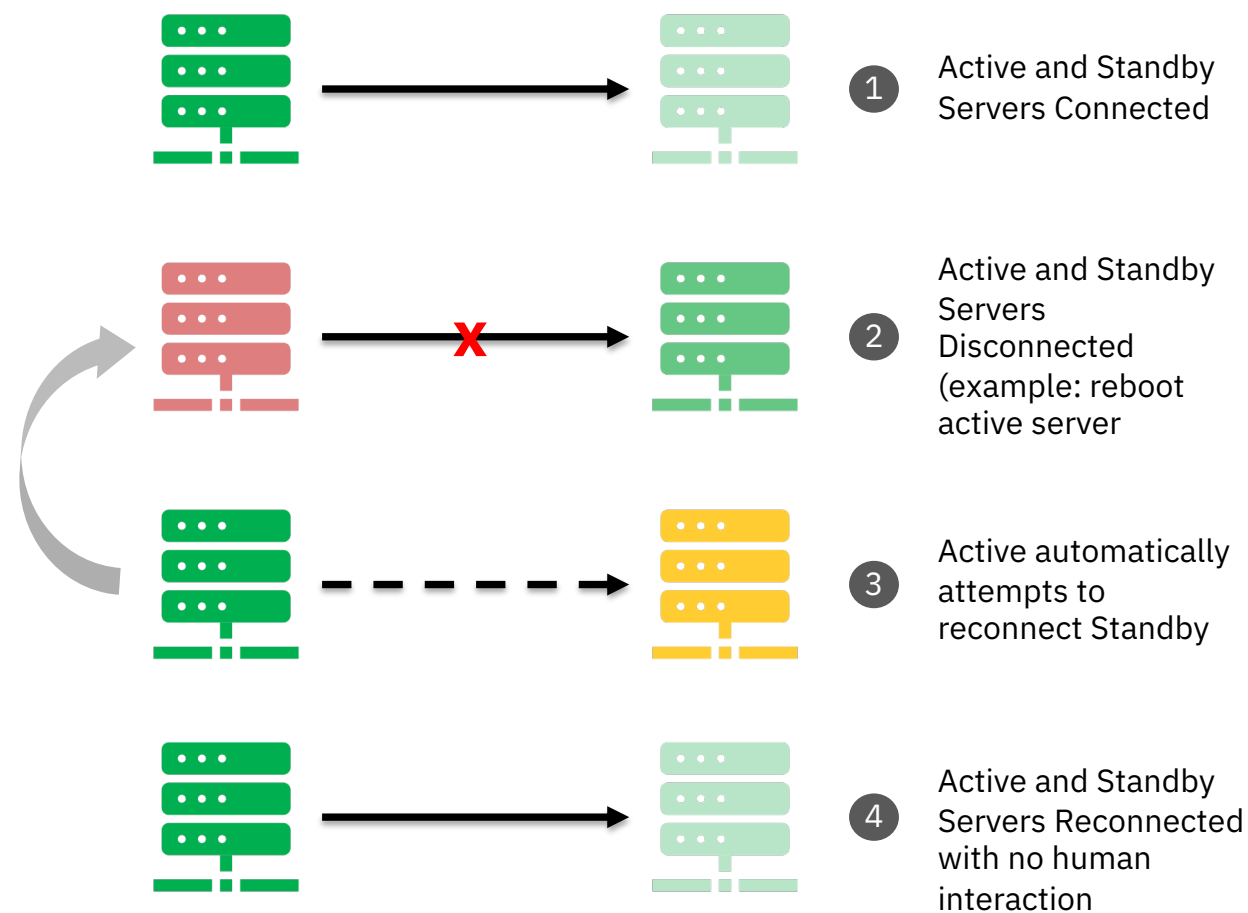
Name	ID
windows script	60
windows script via key	61

Overlaid on this are two configuration windows:

- Modify Server:** This window is used to define an external server connection. It asks for the hostname (e.g., 'amador1.storage.tucson.ibm.c') and port (e.g., '22'). It offers two authentication methods: 'Connect to server with userid and password' and 'Connect to server with SSH key'. The 'SSH key' option is selected. Fields for 'UserID' (e.g., 'root') and 'Operating System' (e.g., 'Windows') are visible. There is also a checkbox for 'Generate a new key pair'.
- Modify Action:** This window configures the task's action. The 'Type' is set to 'Run External Script'. It asks 'What server should the script run on?' and shows a selected server: 'Administrator@csmin2k12r2.tuc.stglabs.ibm.com'. It also asks for the command to run (e.g., 'hostname'), the timeout time in minutes (e.g., '5'), and an optional success string.

## IDEA CSM-I-160 – Automatically reconnect active and standby servers after a disconnect

- When an Active and Standby server disconnects the standby will go into a Disconnected Consistent state.
- Starting with the 6.3.11 release, after a disconnect, the active server will automatically attempt to reconnect to the standby.
- The active will attempt to reconnect by default every minute for up to 10 minutes. If it cannot reconnect within that time a manual reconnect will be necessary.
- When the active server automatically reconnects, before sync'ing the servers, a backup will be taken automatically on the standby server to ensure a consistent image is preserved of the standby config.
- If a takeover is issued to the standby server, the active will see this on the next attempt to reconnect and will stop trying to reconnect.
- NOTE: When upgrading the active and standby servers it is always recommended to issue a takeover on the standby server prior to the upgrade process.



# IBM System Storage Ideas Portal!!! → New RFE Portal for CSM

<https://ibm-sys-storage.ideas.ibm.com/ideas?project=CSM>

- The CSM RFE process has been converted to the new IBM System Storage Ideas Portal.
- With the change, IBM is moving to a more common Aha! based process for customers to submit ideas across all IBM products.
- All existing RFEs have been converted to Ideas. When you visit an RFE for status it will direct you to the Idea for that RFE in the Idea Portal.

## IBM System Storage Ideas Portal

### Shape the future of IBM!

We invite you to shape the future of IBM, including product roadmaps, by submitting ideas that matter to you the most. Here's how it works:

### Post your ideas

Start by posting ideas and requests to enhance a product or service. Take a look at ideas others have posted and upvote them if they matter to you,

1. Post an idea
2. Upvote ideas that matter most to you
3. Get feedback from the IBM team to refine your idea



### Help IBM prioritize your ideas and requests

The IBM team may need your help to refine the ideas so they may ask for more information or feedback. The offering manager team will then decide if they can begin working on your idea. If they can start during the next development cycle, they will put the idea on the priority list. Each team at IBM works on a different schedule, where some ideas can be implemented right away, others may be placed on a different schedule.

### Receive notification on the decision

Some ideas can be implemented at IBM, while others may not fit within the development plans for the product. In either case, the team will let you know as soon as possible. In some cases, we may be able to find alternatives for ideas which cannot be implemented in a reasonable time.

**Thank You!**

# Accelerate with ATG Survey

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Please take a moment to share your feedback with our team!

You can access this 6-question survey via [Menti.com](https://www.menti.com) with code **1708 6924** or

Direct link <https://www.menti.com/alwhyze7z1gz>

or

QR Code

