

Advanced
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Accelerate with ATG: IBM DS8900F Copy Services Manager

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Accelerate with ATG Technical Webinar Series

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.

2023 Upcoming Webinars – click on the link to register for the live event:

September 26 – [New SAN Products: IBM b-type Gen 7 \(64G\) Storage Extension, High-Density Director Blade, Enhanced Security and New SANnav Release](#)

October 17 – [IBM Copy Services Manager Quarterly Update v6.3.8.0](#)

Important Links to Bookmark:



ATG Accelerate Support Site: <https://www.ibm.com/support/pages/node/1125513>

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



ATG-Storage Offerings

CLIENT WORKSHOPS

- **IBM DS8900F Advanced Functions – November 15-16 (Chicago, IL)**
- IBM Storage Point of View on Cyber Resiliency – **Coming Soon**
- IBM FlashSystem and Storage Virtualize
- **IBM Storage Scale System and Storage Scale – November 1-2 (Herndon, VA)**
- IBM FlashSystem 9500 Deep Dive & Advanced Functions
- **IBM Storage Fusion – October 24-25 (Herndon, VA)**

Please reach out to your IBM Rep or Business Partner for future dates and to be nominated.

TEST DRIVE / DEMO'S

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

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

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Meet the Speaker



Stephanie Beddow is an IBM Storage Technical Specialist, DS8000 SME. Over the last 5 years as a Storage Technical Specialist in the Washington, DC area, she supported Financial Services clients. Before joining IBM, Stephanie attended Lehigh University, earning a B.S. in Computer Science Engineering and Business.

Since becoming a member of the Advanced Technology Group earlier in the year, her focus is now helping IBMers, BPs, and clients learn about the advanced capabilities of the DS8000 by providing demos and presentations, along with assistance in building the proper solution for a client.

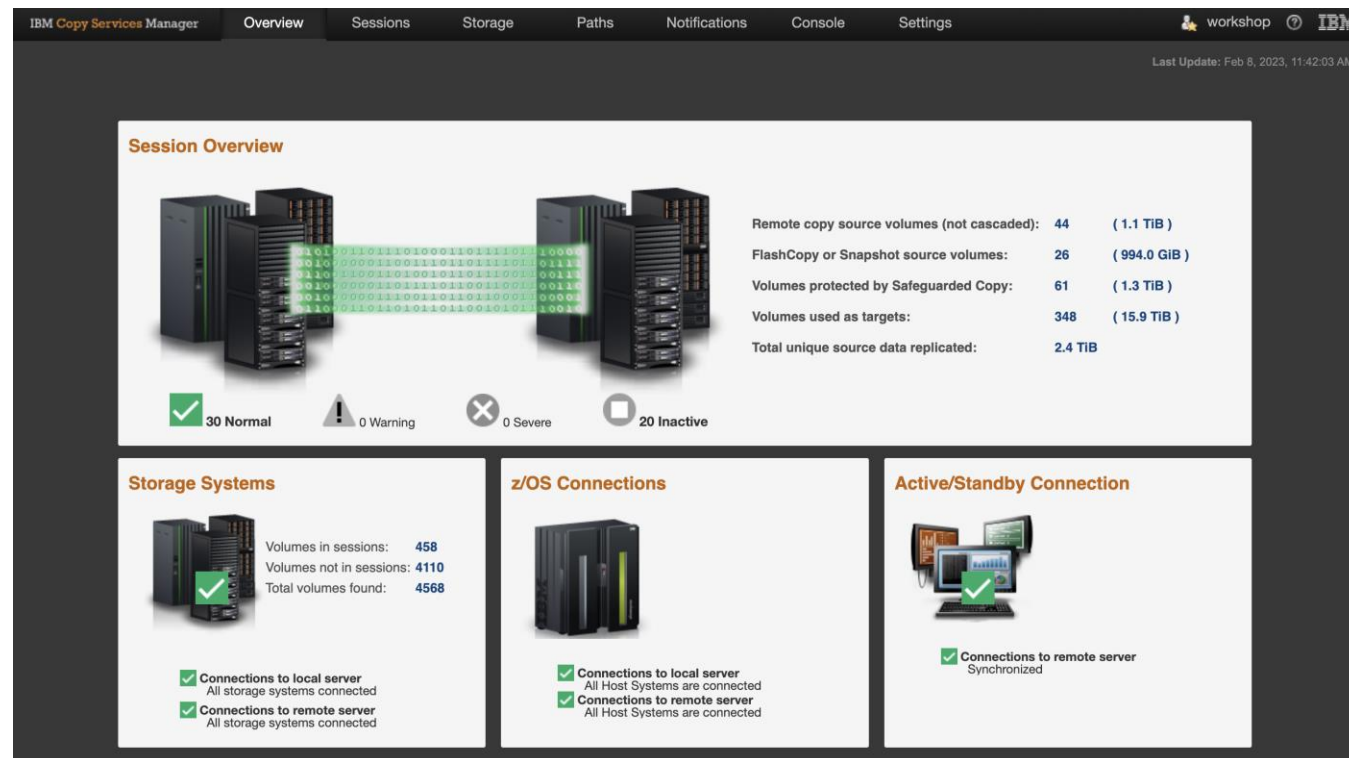
Discussion Topics

- Introduction to IBM Copy Services Manager
- Review Terminology
- CSM Capabilities
- IBM DS8900F CSM Demo – How to Create a 3-Site Multi-Target Solution

Introduction to IBM Copy Services Manager

What is IBM Copy Services Manager?

- Simplifies & automates IBM Storage copy services management for DR & Business Continuity.
- Ease of use from a single point of control.
- Coordinate Copy Services capabilities in sessions that are easy to manage, e.g.,
 - FlashCopy/Snapshot
 - Safeguarded Copy
 - Metro Mirror
 - Global Mirror
 - Metro Global Mirror
 - Multi-Target PPRC (MM & GC/GM)
 - DS8000 4-site replication
- **Support for z/OS HyperSwap in 2 & 3 site environments.**



[CSM v6.3.7.0 Update](#)

[CSM v6.3.8.0 Update](#)

IBM Copy Services Manager Terminology

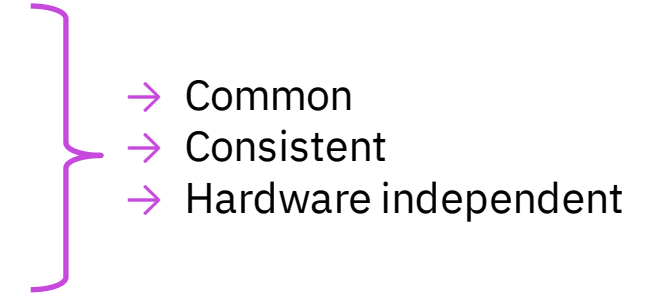
Terminology – Role

Role – 2-digit identifier indicating volume function & site.

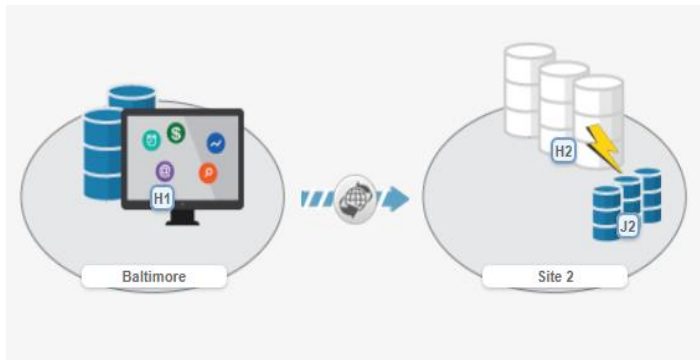
Role Pair

Copy Set

Session



→ Example – Global Mirror Session



→ **1st digit** – Volume function:

- **H – Host**
 - Potentially accessed by application servers
- **J – Journal**
 - Global Mirror FlashCopy target
- **I – Intermediate**
 - Consistent copy of remote site data

→ **2nd digit** – Site where volume is located:

- **1 – Site 1**
- **2 – Site 2**

Terminology – Role Pair

Role – 2-digit identifier indicating volume function & site.

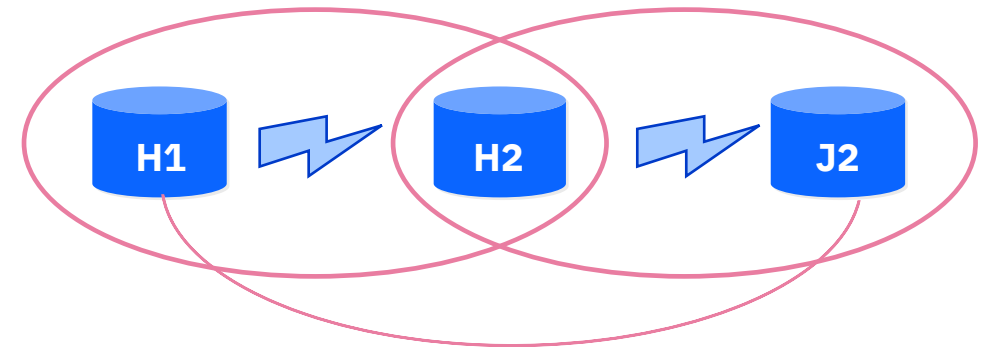
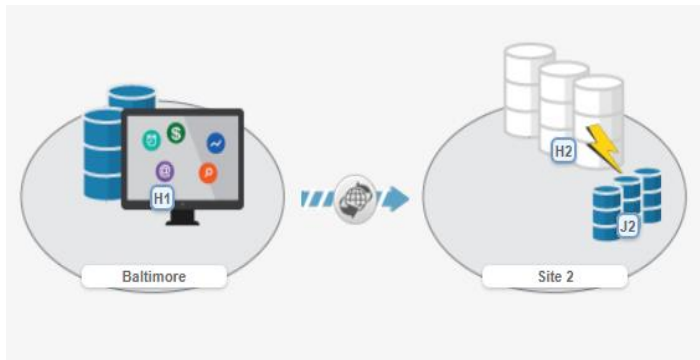
Role Pair – Pair of 2 volumes (2 roles) in a copy set.

Copy Set

Session

- Common
- Consistent
- Hardware independent

→ Example – Global Mirror Session



Terminology – Copy Set

Role – 2-digit identifier indicating volume function & site.

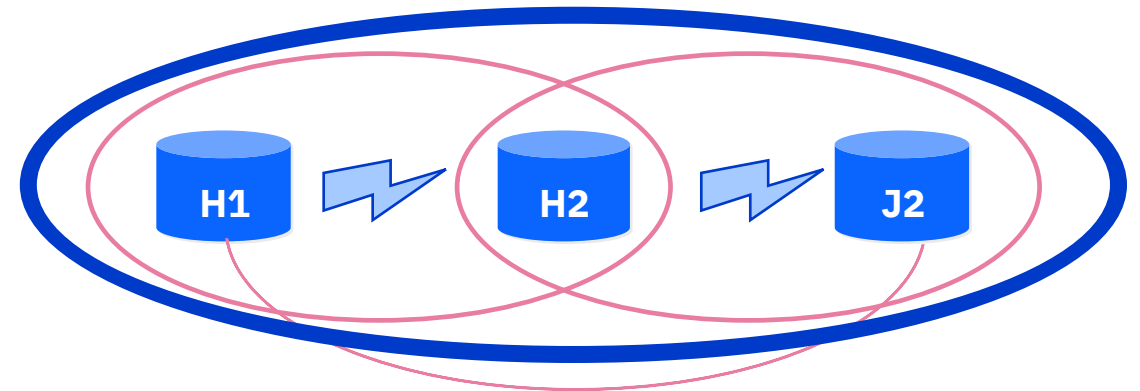
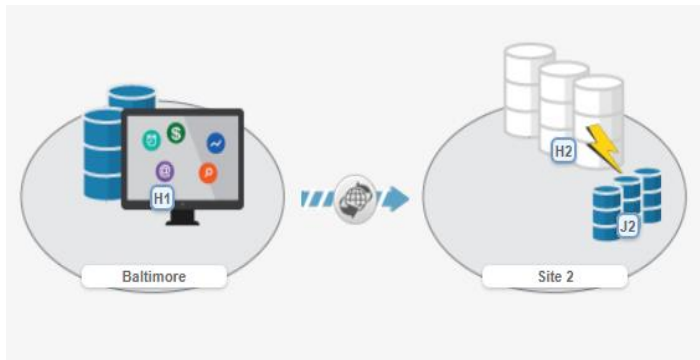
Role Pair – Pair of 2 volumes (2 roles) in a copy set.

Copy Set – Set of volumes that represent copies of the same data.

Session

- Common
- Consistent
- Hardware independent

→ Example – Global Mirror Session



Terminology – Session

Role – 2-digit identifier indicating volume function & site.

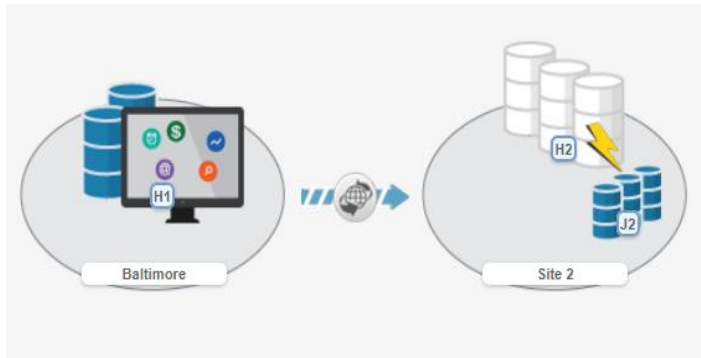
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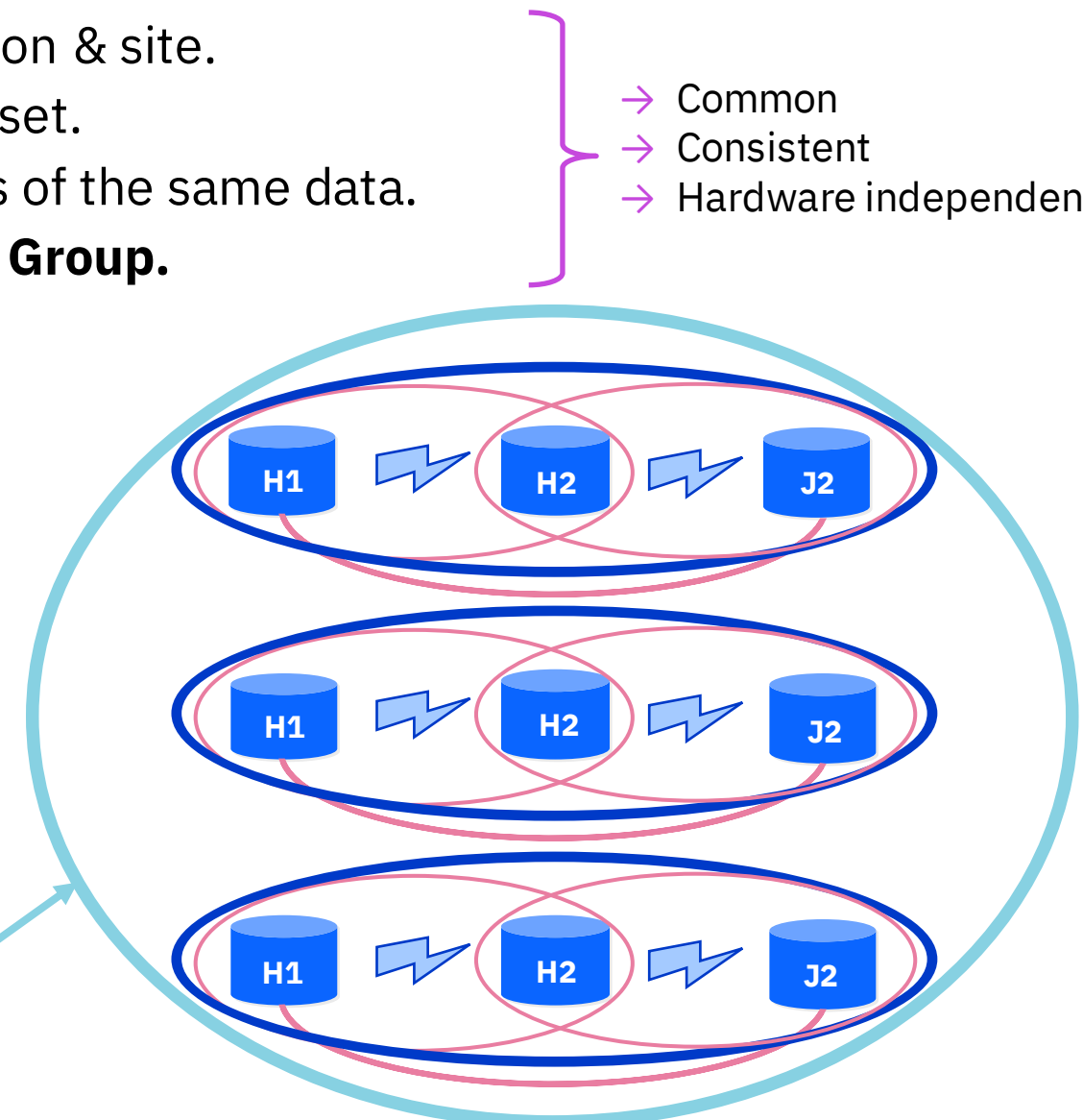
Session – Copy Sets making up a Consistency Group.

- Common
- Consistent
- Hardware independent

→ Example – Global Mirror Session



Session managed via simple commands



IBM Copy Services Manager Capabilities

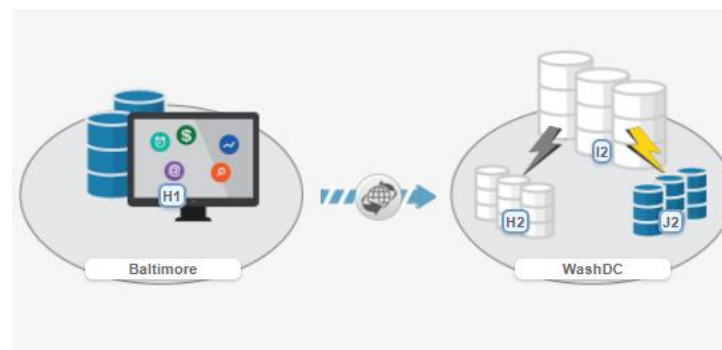
Session with Practice Volumes

- Manage Metro Mirror, Global Mirror, Metro/Global Mirror & Metro Mirror – Global Mirror w/ FlashCopy to provide a point in time copy of data on a Practice Volume.

Ex. Global Mirror



& Global Mirror w/ Practice



- **Built-in Automation** – Single command to put consistent data on Practice Volumes.
- Practice Volumes can be used to:
 - Test DR environment or data mine without interfering w/ DR operations.
 - Add an additional set of recoverable data to protect against disaster during resynch.
 - Re-Flash consistent data if something went wrong during recovery.
- Practice Volumes are also the Recovery Host Volumes.
 - Practice how to recover & recover how it was practiced.
 - Use recovery host volumes as source to resync in reverse direction.

Scheduled Tasks

- Able to schedule:
 - Single commands.
 - Multiple actions against different sessions in the same task.
- Hourly, Daily, or Weekly intervals.
- Receive email / SNMP events for failed tasks.
- **“Wait for State”** – task waits until session reaches given state before the next action.
- **“Wait for Percent Complete”** – similar to *Wait for State*.
- Validate **Role Pair Consistency** before next task.
- CSMCLI starting a Scheduled Task can wait for completion of all tasks before returning.
- Call external scripts.

Modify a Scheduled Task

What action would you like to perform? ?

Step #	Action type	Session	Action
1	Command	8k-GMP	Issue 'Suspend' to '8k-GMP' session
2	Wait For State	8k-GMP	Wait for 'Suspended' state on '8k-GMP' session
3	Command	8k-FC	Issue 'Flash' to '8k-FC' session
4	Command	8k-GMP	Issue 'Start H1->H2' to '8k-GMP' session

IBM Copy Services Manager GUI Demo

How to Create & Manage a 3-Site Multi-Target Solution

Hyperlinks to CSM Reference Material

[IBM Documentation](#) → [CSM](#)

[CSM Support Portal](#)

[CSM Support Matrix](#)

[CSM YouTube Channel](#)

[CSM Global Mirror Reporting Tool](#)

Thank you!



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