

# GDPS v4.9 Technical Update: New Capabilities for HA, DR, and Cyber Resilience

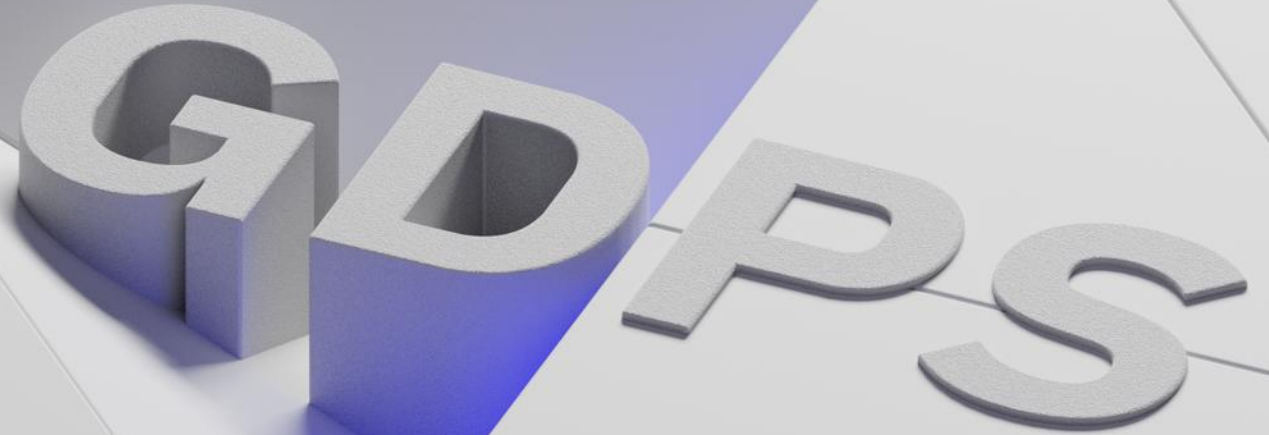
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GDPS Development  
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**VM Workshop**  
June 10-12, 2026



GDPS

# Agenda

- GDPS 4.9 Important Information
- GDPS Metro
- GDPS Global
- GDPS CA
- GDPS LCP Manager
- Data Migration Procedures
- Tech Preview
- Statement of Direction



# GDPS 4.9 Important Information

Megan

# GDPS Support levels



- The minimum level of z/OS® required to run GDPS 4.9 will be **z/OS 3.1**
- The GDPS 4.9 GUI/REST API Liberty server will require Java 21 runtimes and higher.
- Starting with APAR PH69626 (targeted for 2Q 2026), the GDPS 4.7 and 4.8 GUI/REST API Liberty server will support running in Java 8 runtimes **and higher**, rather than just Java 8 runtimes.



# GDPS Solutions



- Capability also available in GDPS HyperSwap Manager will feature the **GDPS HM** tag
- Capability also available in GDPS Metro Global will feature the **GDPS MGM** tag

# GDPS Metro

Steven

# Operational visibility and usability



A new Metro Dashboard 3270 panel provides an at-a-glance view of environment readiness and a plain language summary of how GDPS will react to primary, PPRC, and hybrid failure triggers, helping operators validate expected behavior before taking action.

GDPS GUI support will be available via SPE after GA

```
VPCPDASH                                     GDPS Failure Event Reactions
DATE: 04/15/2026 TIME: 19:48:43

Scope:
CG ..... PRODUCT3

Status Checks:
Primary Keys ..... CZK2
Primary Site ..... RS1
Mirroring Status
RL1 ..... OK

Reactions to Triggers:
Primary Trigger ..... HyperSwap from RS1 to RS2 via RL1. Systems not ready will be reset.
PPRC Trigger
RL1 ..... Freeze RL1 & continue on RS1

Other Information:
Unplanned HyperSwap Capability
RL1 ..... OK,PARTIAL
Planned HyperSwap Capability
RL1 ..... NOK - Not all systems ready for HyperSwap
Freeze Capability
RL1 ..... OK
Paths Established CGROUP=YES
RL1 ..... OK
Concurrent Copy Session
RL1 ..... OK
Temporarily Disabling HyperSwap
RL1 ..... NO
GDPS Systems HyperSwap Ready
RL1
Ready ..... CZK2 CZK1
Not Ready ..... CZP4

User Defined Policies:
Preferred HyperSwap Leg ..... RL1
Preferred RPFC Leg ..... RL1
Primary Failure Policy
RL1 ..... SWAP,GO
PPRC Failure Policy
RL1 ..... GO
```

# Operational visibility and usability



A new Configuration Information 3270 panel enables read-only browsing of key GDPS and NetView configuration members from the 3270 interface, making it easier to verify critical configuration without requiring TSO access.

Selected 3270 panels now adapt to the terminal screen size instead of being limited to 24x80, with support up to 62x160 on eligible panels, improving readability and reducing scrolling.

GDPS GUI support will be available via SPE after GA

Auditing for Role-based security has been enhanced to provide a new GEO message detailing all security actions taken in GDPS

```
VPCPGDO                                View GDPS Configuration Datasets

Actions:  B rowse

Member          Dataset Name
-----
GDPS options    MGMOPT          AOC.USER.MGM.S4.DSIPARM
GDPS scripts    MGMSCR          AOC.USER.MGM.S4.DSIPARM
GDPS workloads  MGMSCR2         AOC.USER.MGM.S4.DSIPARM
GDPS GEOPARM    SEGDPSS33      AOC.USER.DSIPARM
GDPS GEOGROUP   MGM3460        AOC.USER.GEOGROUP
GDPS GEOMNT     N/A            N/A
CxxSTYLE mbr    CMGSTYLE       AOC.USER.MGM.S4.DSIPARM
CxxSTGEN mbr    CMGSTGEN       AOC.USER.MGM.S4.DSIPARM
CNMSTUSR mbr    CNMSTUSR       AOC.USER.MGM.S4.DSIPARM
User Exit      GEOUXI11       AOC.USER.DSICLD
AUTH Table     N/A            ATDATASET

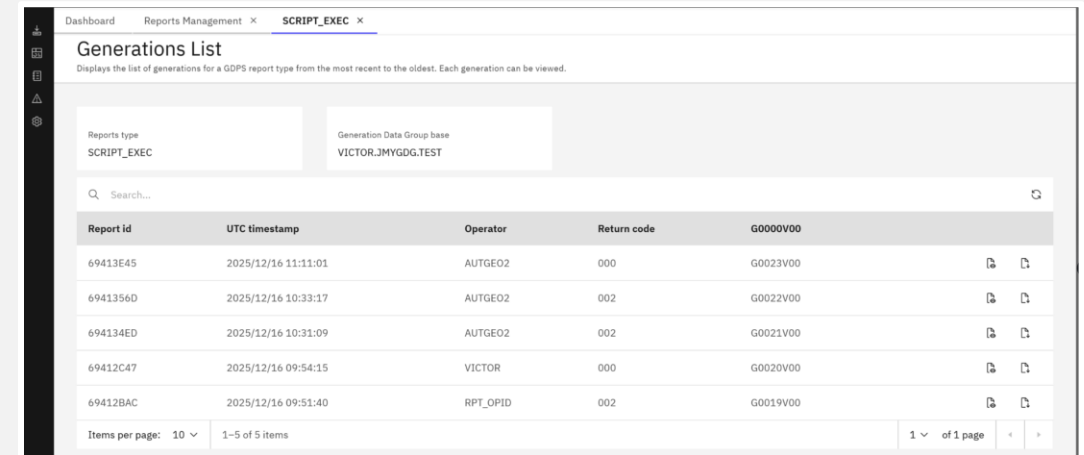
NetView Info    Time
-----
Started         21 Aug 2025 12:28:27
Last refresh    N/A

Command ==>
F1=Help  F3=Return  F6=Roll  F7=Up  F8=Down
```

# Standardized YAML reports

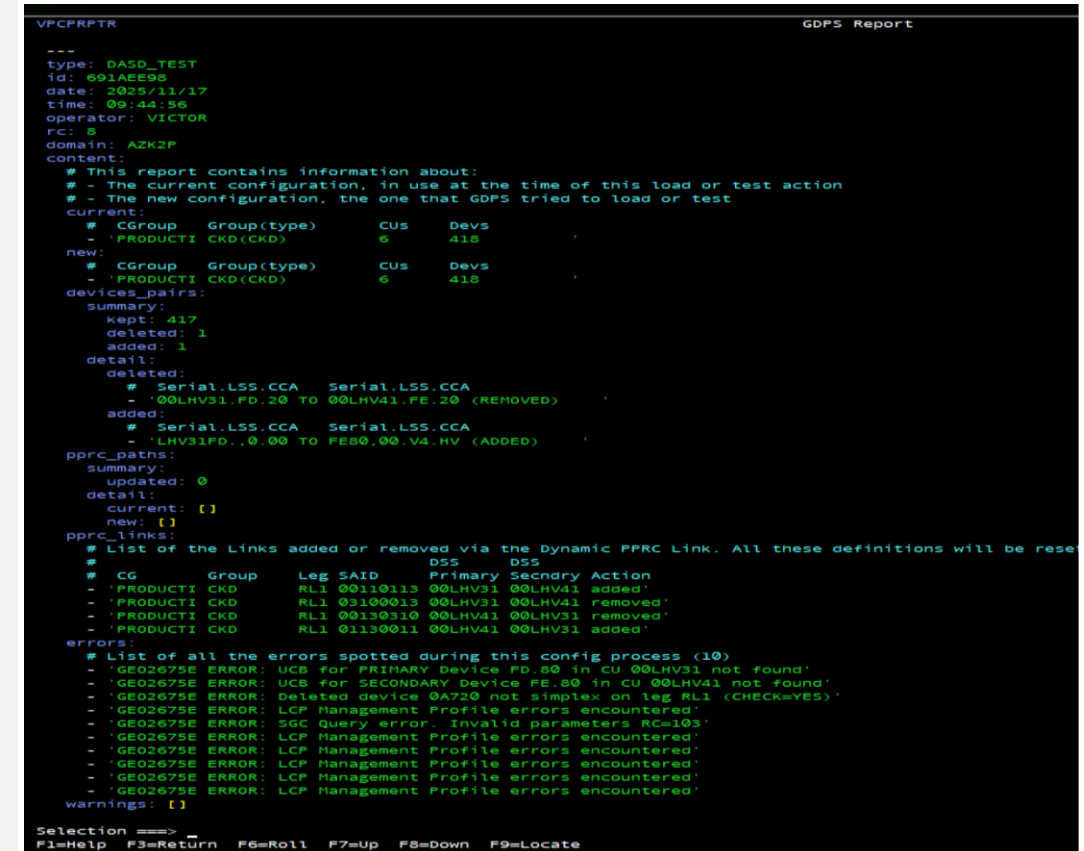
GDPS Metro now generates standardized YAML reports that are retained as multiple historical versions (GDG generations).

Reports are created automatically when validating or updating key configuration artifacts such as DASD configuration, site table, options, and scripts, and for selected operational executions (for example, script execution and HyperSwap).



The screenshot shows a web application interface titled 'Generations List'. It displays a table of report generations for the 'SCRIPT\_EXEC' type. The table has columns for Report id, UTC timestamp, Operator, Return code, and G0000V00. There are also search and pagination controls.

Report id	UTC timestamp	Operator	Return code	G0000V00
69413E45	2025/12/16 11:11:01	AUTGEO2	000	G0023V00
6941356D	2025/12/16 10:33:17	AUTGEO2	002	G0022V00
694134ED	2025/12/16 10:31:09	AUTGEO2	002	G0021V00
69412C47	2025/12/16 09:54:15	VICTOR	000	G0020V00
69412BAC	2025/12/16 09:51:40	RPT_OPID	002	G0019V00



The screenshot shows a terminal window titled 'GDPS Report' displaying a detailed report. The report includes information about the current configuration, device pairs, and pprc paths. It also lists errors encountered during the configuration process.

```
VPCPRPTR                                GDPS Report
---
type: DASD_TEST
id: 691AEE98
date: 2025/11/17
time: 09:44:38
operator: VICTOR
rc: 8
domain: AZK2P
content:
# This report contains information about:
# - The current configuration, in use at the time of this load or test action
# - The new configuration, the one that GDPS tried to load or test
current:
# CGroup  Group(type)  CUs  Devs
# 'PRODUCTI CKD(CKD)  6    418
new:
# CGroup  Group(type)  CUs  Devs
# 'PRODUCTI CKD(CKD)  6    418
devices_pairs:
summary:
  kept: 417
  deleted: 1
  added: 1
  detail:
    deleted:
      # Serial.L55.CCA  Serial.L55.CCA
      - '00LHV31.PD.20 TO 00LHV41.FE.20 (REMOVED)
    added:
      # Serial.L55.CCA  Serial.L55.CCA
      - 'LHV31FD.,0.00 TO FEB0.00.V4.HV (ADDED)
pprc_paths:
summary:
  updated: 0
  detail:
    current: []
    new: []
pprc_links:
# List of the Links added or removed via the Dynamic PPRC Link. All these definitions will be reset
#
# CG      Group      Leg SAID  Primary  Secndry  Action
# 'PRODUCTI CKD      RL1 001100113 00LHV31 00LHV41 added'
# 'PRODUCTI CKD      RL1 001000013 00LHV31 00LHV41 removed'
# 'PRODUCTI CKD      RL1 00130310 00LHV41 00LHV31 removed'
# 'PRODUCTI CKD      RL1 01130011 00LHV41 00LHV31 added'
errors:
# List of all the errors spotted during this config process (10)
- 'GEO2675E ERROR: UCB for PRIMARY device PD.80 in CU 00LHV31 not found'
- 'GEO2675E ERROR: UCB for SECONDARY device FE.80 in CU 00LHV41 not found'
- 'GEO2675E ERROR: Deleted device 0A720 not simplex on leg RL1 (CHECK=YES)'
- 'GEO2675E ERROR: LCP Management Profile errors encountered'
- 'GEO2675E ERROR: SGC Query error. Invalid parameters RC=103'
- 'GEO2675E ERROR: LCP Management Profile errors encountered'
- 'GEO2675E ERROR: LCP Management Profile errors encountered'
- 'GEO2675E ERROR: LCP Management Profile errors encountered'
- 'GEO2675E ERROR: LCP Management Profile errors encountered'
- 'GEO2675E ERROR: LCP Management Profile errors encountered'
warnings: []
Selection ==> _
F1=Help F3=Return F6=Roll F7=Up F8=Down F9=Locate
```

# Enhanced sysplex management



Coupling facility management is enhanced to reduce risk when activating new CFRM policies: GDPS performs a DISPLAY XCF/REALLOCATE TEST first and proceeds with the reallocate only when the test indicates it can complete successfully.

```
VPCPASSU                               Confirmation panel                               CZK2

You are requesting to

Switch CFRM policy from GDPSPC15 to GDPSPC16

GDPS will: Switch CFRM policy
           If switch is ok, test structures reallocation
           If test is ok, request a structures reallocation

Processing may take a long time

Enter   YES   to Proceed
        NO    to Cancel Request

Selection ==>>  _
F3=Return
```

# Improved problem determination



A new informational message (GEO562I) is issued when GDPS is about to stop or reset systems as part of unplanned processing, improving problem determination by logging that a removal/reset is happening and providing the associated reason.

## **Before**

GDPS was killing systems as part of unplanned event within raising specific alerts or messages that can be trapped

## **After**

A new dedicated GEO562I message will be issued every time GDPS has to kill a system or every time a system is killing itself. Objective is to simplify problem determination and to allow customer to automatically react to this kind of event if they want.

## **New messages:**

GEO562I SYSTEM ' sys' WILL BE REMOVED/RESET REASON: FREEZE

GEO562I SYSTEM ' sys' WILL BE REMOVED/RESET REASON: HYPERSWAP FAILED (MVS QUIESCE)

GEO562I SYSTEM ' sys' WILL BE REMOVED/RESET REASON: PRIMARY EVENT

GEO562I SYSTEM ' sys' WILL BE REMOVED/RESET REASON: Wrong subchannel set (MVS QUIESCE)

GEO562I SYSTEM ' sys' WILL BE REMOVED/RESET REASON: SPLIT SYSPLEX EVENT

# Availability improvements



Consistent FlashCopy processing no longer briefly disables HyperSwap.

HyperSwap protection will remain enabled while GDPS coordinates the consistent FlashCopy operation, reducing exposure during consistency activities.

## Before

HyperSwap capability had to be suspended during the execution of the consistent FlashCopy to prevent potential problems.

Typical messages visible from SDF when using Consistent FlashCopy:

```
GE0089I Consistent FlashCopy I/O queueing started
Disabling HyperSwap prior to ConsistentFlashCopy on leg RLx
HYPERSW DISABLE LEG(RLx)
GE0090I Consistent FlashCopy I/O queueing ended
Attempting to re-enable HyperSwap on leg RLx
HYPERSW ON LEG(RLx)
HyperSwap is re-enabled on leg RLx
```

In a large config, this suspension can take several seconds

## After

No HyperSwap disablement required anymore during a Consistent FlashCopy action.

No exposure anymore if an unplanned event occurs during the execution of the consistent FlashCopy.

Typical messages visible from SDF when using Consistent FlashCopy after this code change:

```
GE0089I Consistent FlashCopy I/O queueing started
GE0090I Consistent FlashCopy I/O queueing ended
```

# DASD configuration flexibility



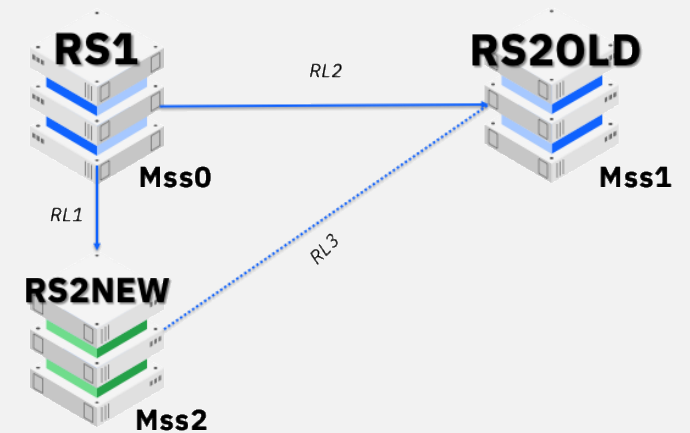
Subchannel-set (MSS) rules are relaxed to allow more flexible device-to-site mappings, reducing unnecessary constraints during DASD migration and technology refresh scenarios while preserving HyperSwap and freeze protections.

MSS3 devices will soon be supported in GDPS Metro

Step1:  
MM2SITE



Step2:  
Temporarily using  
MM3SITE  
During the migration



Step3:  
We update the GEOPARM  
And go back to MM2SITE



It is now possible to run with MSS2 devices on RS2. That was not possible in 4.8.

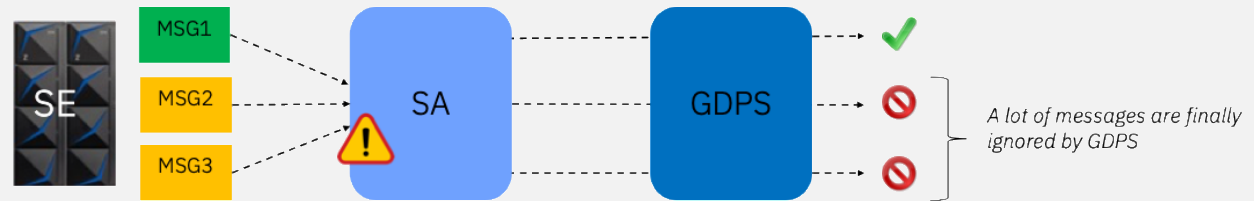
# BCPii Message Filtering



BCPii message filtering improves the reliability of message-driven IPL monitoring by subscribing only to the message patterns GDPS requires, reducing contention from high-volume message streams during load processing.

Before:

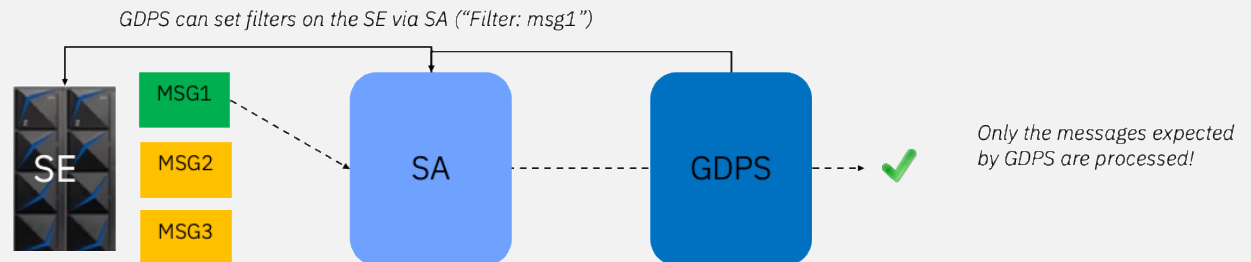
- All BCP messages sent from SE to GDPS through SA causing contention



*Bottleneck! Contention may be visible if too many messages are sent by the SE!*

After:

- GDPS can tell SA the messages that he wants to receive (via a CGLOBAL)
- SA will ask the Support Element to set some filters accordingly
- Messages are filtered and only the messages needed by GDPS are sent by the SE through SA.



*Lower risk of contention, only the filtered messages are sent to SA*

# View and update LPAR Image (ICNTL) values



LPAR capacity and weight management is extended through BCPii to allow operators and automation to view and modify key LPAR attributes such as defined capacity and processing weights.

Support is provided through panels, with the new CAPACITY ICNTL script statement, and REST APIs.

```

VPCPLR00 Standard Actions - LPAR View CZK2
Actions: I Info P Processor

      HMC
SITE.CPC LPAR System System Selected
  LPAR Name Status Type Name by system Status Type
-----
SITE1.ST01
- CCF1 OPERATING CFCC CCF1 CCF1 MANUAL CF
- CZK1L OPERATING MVS CZK1 CZK1 ACTIVE GDPS
- CZP3L NOT_OPERATING N/A N/A CZP3 RESET GDPS
SITE2.ST01
- CCF2 OPERATING CFCC CCF2 CCF2 MANUAL CF
P CZK2L OPERATING MVS CZK2 CZK2 ACTIVE GDPS
- CZP4L OPERATING MVS CZP4 CZP4 ACTIVE GDPS

Command/Filter ==> Row 1 of 8
F1=Help F3=Return F5=Refresh F7=Up F8=Down F10=Left F11=Right
    
```

```

VPCPLR02 Standard Actions - LPAR Processor details

LPAR: ST01.CZK2L
Current Activation profile: CZK2L
Last Activation profile: CZK2L

Defined Capacity: 0

Processor types: GPP IIP

Initial weight: 50 Capped: 0

WLM:
Enabled: 0
Maximal weight: 0
Minimum weight: 0

Command ==>
F1=Help F3=Return F5=Refresh F7=Up F8=Down F10=Left F11=Right
    
```

# Dual control for config and DASD actions



GDPS 4.9 introduces dual control protection for selected high-impact configuration and storage actions, reducing the risk of unintended or unauthorized changes. When enabled, sensitive actions—such as refreshing or loading configuration changes and DELPAIR operations—require separation of duties between the requester and an authorized approver.

Requests are tracked through a dedicated interface, where approvers can review and act based on defined roles. Policy-driven controls provide flexibility while strengthening governance, auditability, and operational safety for critical GDPS activities.

4.9 update includes protection for:

- DASD: Delpair device pairs
- CONFIG:
  - Load GDPS Configuration
  - Refresh GDPS Options

```

VPCPDC00          Dual Control Requests          BZK2
  Actions:  V iew  M odify  D elete  R eopen  X ecute          DC status:  ENABLED

  Requester  Request#  Resource Name  Type  Action  Status  Approver
  _  NATHAN    69821A59      FBAONLY.XDRFBA.R  DASD  DELPAIR  SUBMITTED

Command ==>
F1=Help  F3=Return  F5=Refresh  F6=Roll  F7=Up  F8=Down          1 Policy  2 Cleanout
                                                Row 1 of 1

VPCPDC05          Dual Control Request          BZK2
  Request:  69821A59          Status:  SUBMITTED
  Requester:  NATHAN          Submitted:  2026/02/03 16:55:05
  Approver:  N/A              Approved:  N/A
  Action:  DELPAIR            Last Updated:  2026/02/03 16:55:05

Attempting to DELPAIR in FBAONLY.XDRFBA.RL1

----- Primary ----- Secondary -----
Serial.LSS.SSID Dev#   Serial.LSS.SSID Dev#
00LHV31.B0.FFB0 01141  00LHV41.C1.FFC1 11141

***** Top Requester Text *****
000000 Attempting to DELPAIR 01141 -> 11141
***** Bottom Requester Text *****

Enter APPROVE or REJECT or EXECUTE on the selection line

Selection ==>
F1=Help  F3=Return  F7=Up  F8=Down          Page 1 of 1
    
```

# GDPS Global

Megan

# Enhanced check state validation for DASD config changes



New enhancements to the check state validation used when changing the Global Mirror disk storage configuration.

In addition to verifying that devices being removed are in a SIMPLEX state, GDPS now performs broader consistency checks, including ensuring that primary devices and logical subsystems are not joined to an active GM session, that FlashCopy relationships are not present where unsupported, and that session-level attributes are not modified while a session is active.

## Check State

⌊ When set to YES, this option will tell GDPS to check that:

- Devices removed are in a SIMPLEX state
- GM primary devices removed are not joined to the GM session
- GM primary LSSs removed are not defined to the GM session
- GMFC devices removed are not in a FC relation
- FC1 devices removed are not in a FC relation
- A GM session removed is not active
- Changing SNBR is not done on an active session
- Changing utility devices LSS for the session master disk subsystem is not done on an active session

A check that fails will result in failure of the whole config action without any changes being done. Setting this to NO tells GDPS to not perform these checks or just issue warnings in some cases. The default is YES. >



# MTFO default changed to YES for GM2SITE topologies

With GDPS 4.9, the MTFO option for GM2SITE topologies now defaults to MTFO(YES). Previously, MTFO defaulted to NO and had to be explicitly enabled.

During migration from GDPS 4.8, environments that require the existing behavior must explicitly specify MTFO(NO); otherwise, MTFO(YES) is assumed.

## Migrating GDPS code from 4.8 to 4.9

For a classic migration, also known as a rolling migration, take the following steps:

1. With both K-sys and R-sys at the 4.7 GDPS level.
2. Stop and restart the K-sys (or R-sys) at the 4.8 code level.
3. Stop and restart the R-sys (or K-sys) at the 4.8 code level.

**Note:** the big bang approach is also available.

< GDPS Global - GM 4.9 change the topology option MTFO() default from MTFO(NO) to MTFO(YES). For more information, see [GDPS Options](#). If the MTFO() option is not specified on the GM2SITE options keyword, then it must be either:

1. Explicitly specified as MTFO(NO) if the current default MTFO(NO) setting is to be kept as is, or
2. Specified as MTFO(YES) if changing the environment into to a multi-target capable or tolerant one.  
This must be combined with any other changes needed for multi-target support. For more information, see [GDPS and Multi-target PPRC considerations](#).

Explicitly specifying MTFO(NO) or changing to MTFO(YES) must be done before any Kg or Kr is migrated to 4.9. Note that a MTFO(NO) to MTFO(YES) (or vice versa) change also requires a DASD config and that **GDPSCHG MIGRATE GMMODE** is used on any running GM sessions so the GM joins are converted to the correct type. For further information, see [GDPSCHG](#).>

>

# Operational visibility and usability



A new Configuration Information 3270 panel enables read-only browsing of key GDPS and NetView configuration members from the 3270 interface, making it easier to verify critical configuration without requiring TSO access.

Selected 3270 panels now adapt to the terminal screen size instead of being limited to 24x80, with support up to 62x160 on eligible panels, improving readability and reducing scrolling.

GDPS GUI support will be available via SPE after GA

Auditing for Role-based security has been enhanced to provide a new GEO message detailing all security actions taken in GDPS

```
VPCPGDO View GDPS Configuration Datasets

Actions:  B rowse

Member      Dataset Name
-----
GDPS options  MGMOPT      AOC.USER.MGM.S4.DSIPARM
GDPS scripts  MGMSCR      AOC.USER.MGM.S4.DSIPARM
GDPS workloads  MGMSCR2     AOC.USER.MGM.S4.DSIPARM
GDPS GEOPARM   SEGDP33     AOC.USER.DSIPARM
GDPS GEOGROUP  MGM3460     AOC.USER.GEOGROUP
GDPS GEOMNT    N/A         N/A
CxxSTYLE mbr  CMGSTYLE    AOC.USER.MGM.S4.DSIPARM
CxxSTGEN mbr  CMGSTGEN    AOC.USER.MGM.S4.DSIPARM
CNMSTUSR mbr  CNMSTUSR    AOC.USER.MGM.S4.DSIPARM
User Exit     GEOUXI11    AOC.USER.DSICLD
AUTH Table    N/A         ATDATASET

NetView Info  Time
-----
Started       21 Aug 2025 12:28:27
Last refresh  N/A

Command ==>
F1=Help  F3=Return  F6=Roll  F7=Up  F8=Down
```

# View and update LPAR Image (ICNTL) values



LPAR capacity and weight management is extended through BCPii to allow operators and automation to view and modify key LPAR attributes such as defined capacity and processing weights.

Support is provided with the new CAPACITY ICNTL script statement, and REST APIs.

```
VPCPFLFX                                View Planned Action                                CZK2

Requested action: AM0DC02091_13                                Number of steps: 2
Script Group:      SCRDFLT
  Nbr  Script statement
  1    COMM=CAPACITY ICNTL OK: PT + PWI
  2    CAPACITY=ICNTL LPAR(ST01.CZK2L) PT(IIP) PWI(50)
```

```
VPCPFLFX                                View Planned Action                                CZK2

Requested action: AM0DC02091_10                                Number of steps: 2
Script Group:      SCRDFLT
  Nbr  Script statement
  1    COMM=CAPACITY ICNTL OK: DEFCAP UPDATE
  2    CAPACITY=ICNTL LPAR(ST01.CZK2L) DEFCAP( 0)
```

# Enhanced 3270 panels



GDPS 4.9 introduces a refreshed set of 3270 panels to improve usability and consistency with the broader GDPS user interface.

The updated panels modernize the layout and presentation of Global Mirror information, making session status, device relationships, paths, and copy activity easier to interpret during day-to-day operations.

```
VPCMSR1  GDPS Global - GM  Kr-sys      REMOTE view      MVS2
Actions:  V View

Session:  02  PROD2      Status:  RUNNING  LSSs:  4   Pairs:  144

      Primary    ->  Secondary
Type  CU / LSS      CU / LSS      Pairs
_ CKD DS8910_1/48 -> DS8910_3/4A      64
_ CKD DS8910_1/4B -> DS8910_3/4D      16
_ CKD DS8910_2/4B -> DS8910_3/4C      16
_ FB  DS8910_1/CA -> DS8910_3/CF      48
```

```
VPCMSR1  GDPS Global - GM  Kr-sys      REMOTE view      MVS2
Session:  02  PROD2      Status:  RUNNING  LSSs:  4   Pairs:  144
Actions:  V iew

      Primary    ->  Secondary
Type  CU / LSS      CU / LSS      Pairs
_ CKD DS8910_1/48 -> DS8910_3/4A      64
_ CKD DS8910_1/4B -> DS8910_3/4D      16
_ CKD DS8910_2/4B -> DS8910_3/4C      16
_ FB  DS8910_1/CA -> DS8910_3/CF      48
```

# Dual control for config and DASD actions



GDPS 4.9 introduces dual control protection for selected high-impact configuration and storage actions, reducing the risk of unintended or unauthorized changes. When enabled, sensitive actions—such as refreshing or loading configuration changes and DELPAIR operations—require separation of duties between the requester and an authorized approver.

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- CONFIG:
  - Load GDPS Configuration
  - Refresh GDPS Options

```

VPCPDC00          Dual Control Requests          BZK2
  Actions:  V iew  M odify  D elete  R eopen  X ecute          DC status:  ENABLED

  Requester  Request#  Resource Name  Type  Action  Status  Approver
  _  NATHAN    69821A59      FBAONLY.XDRFBA.R  DASD  DELPAIR  SUBMITTED

Command ==>
F1=Help  F3=Return  F5=Refresh  F6=Roll  F7=Up  F8=Down          1 Policy  2 Cleanout
                                                Row 1 of 1

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  Request:  69821A59          Status:  SUBMITTED
  Requester:  NATHAN          Submitted:  2026/02/03 16:55:05
  Approver:  N/A              Approved:  N/A
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Attempting to DELPAIR in FBAONLY.XDRFBA.RL1

----- Primary ----- Secondary -----
Serial.LSS.SSID Dev#   Serial.LSS.SSID Dev#
00LHV31.B0.FFB0 01141  00LHV41.C1.FFC1 11141

***** Top Requester Text *****
000000 Attempting to DELPAIR 01141 -> 11141
***** Bottom Requester Text *****

Enter APPROVE or REJECT or EXECUTE on the selection line

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```

# GDPS CA

Steven

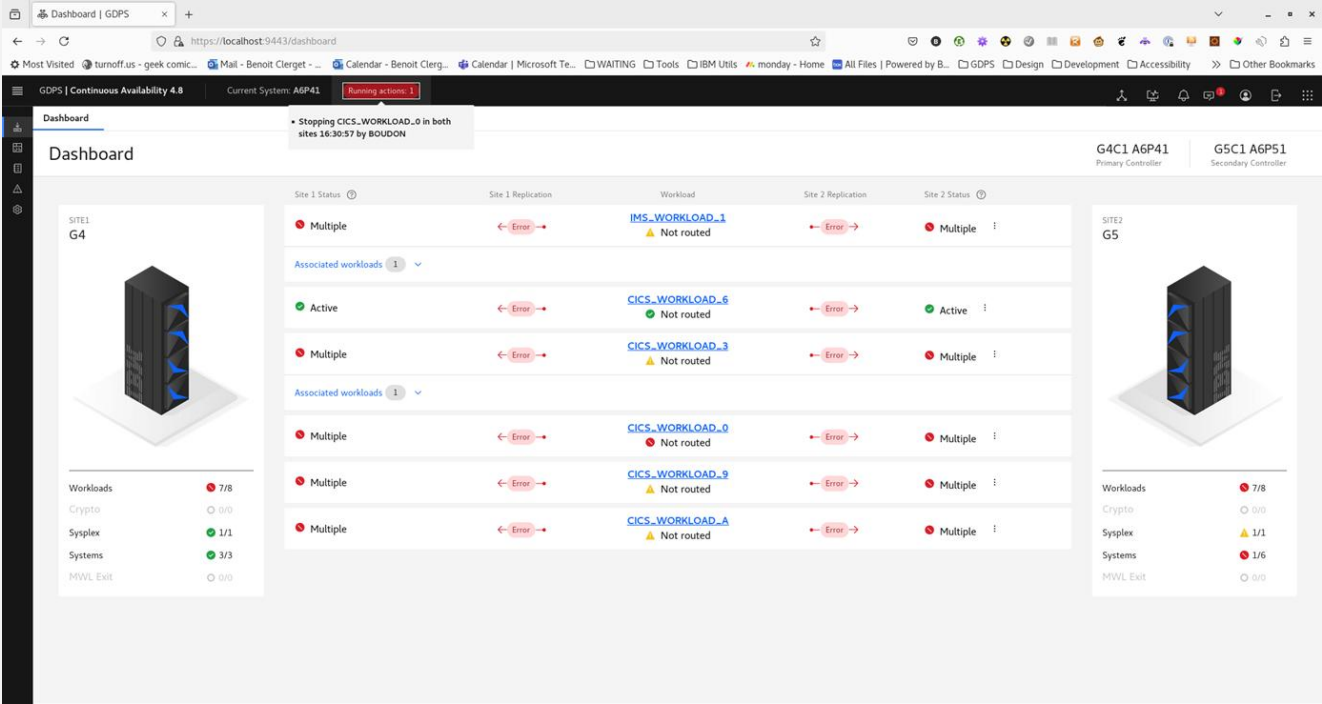
# Updated Graphical User Interface



GDPS 4.9 introduces an updated Graphical User Interface (GUI) for GDPS Continuous Availability.

The GUI has been modernized by transitioning from the Dojo framework to the Carbon Design System, providing a more consistent, intuitive, and user-friendly experience.

This update delivers an improved look and feel along with enhanced usability, while preserving existing functionality and workflows.

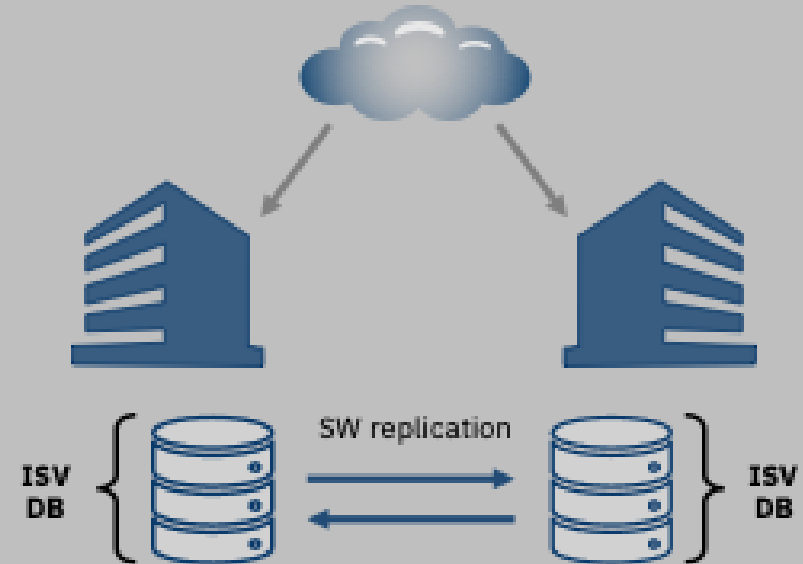


# Support for ISV-Managed Replication Workloads



GDPS Continuous Availability (CA) now supports a new workload type known as an ISV Workload, enabling CA to manage and automate failover for workloads that replicate data using independent software vendor (ISV) replication technologies, rather than IBM-provided Db2, IMS, or VSAM replication solutions.

**Near continuous availability at extended distance**



# LCP Manager

Megan

# Integrated Type 1 Validation

GDPS 4.9 introduces support for automated Type 1 (Infrastructure) validation of Safeguarded Copy backups within the vault.

Validation in GDPS 4.9 enables the LCP Manager to:

- IPL recovery systems directly from RC(n) copies, collected either via a new capture or from an existing tagged capture.
- Monitor IPL progress using enhanced BCPii message filtering, delivering reliable checkpoint detection even in high-volume environments.
- Record validation results, associate them with captures, and automatically mark intervening captures as *validated*, *failed*, or *in-doubt* based on sequencing.
- Can be integrated with existing Type 2 (Data structure) and Type 3 (Data content) validation.

Figure 2. VPCPLV00, LCP Safeguarded validation summary

```

VPCPLV00          Logical Corruption Protection Safeguarded Validation          GIC3
Management Profile: SGC1VAL1          Latest Capture: 2026/03/04.14:01:07
Consistency Group: ZPRODII1.RS1      Latest Validation: 2026/03/04.14:01:13

Actions: I nfo

Validation          Capture          Data Consistency
UTC TimeStamp      Seqno          UTC TimeStamp      Source      RCn      Status
- 2026/03/04.14:01:13 69A83B23 2026/03/04.14:01:11 RS(1)      001      Failure
- 2026/03/04.13:02:05 69A82D48 2026/03/04.13:02:03 RS(1)      001      Success
- 2026/03/04.11:02:32 69A81143 2026/03/04.11:02:30 RS(1)      001      Success
- 2026/03/04.10:16:49 69A8068C 2026/03/04.10:16:48 RS(1)      001      Success
- 2026/03/04.10:04:53 69A803C0 2026/03/04.10:04:51 RS(1)      001      Aborted
- 2026/03/04.09:33:08 69A7FC4F 2026/03/04.09:33:07 RS(1)      001      Success
- 2026/03/04.08:54:24 69A7F33B 2026/03/04.08:54:23 RS(1)      001      Failure
- 2026/03/04.08:27:53 69A7EA47 2026/03/04.08:16:11 SGC(1)     001      Aborted
- 2026/03/03.16:05:34 69A70682 2026/03/03.16:04:22 SGC(1)     002      Aborted
- 2026/03/03.15:21:33 69A6F0B8 2026/03/03.14:31:24 SGC(1)     002      Aborted
- 2026/03/02.10:23:33 69A56520 2026/03/02.10:23:32 RS(1)      002      Aborted
- 2026/02/27.14:25:28 69A1A953 2026/02/27.14:25:27 RS(1)      001      Failure

Command/Filter ==>
F1=Help F3=Return F5=Refresh F6=Roll F7=Up F8=Down          Row 1 of 16
  
```

```

_VPCPLVII          LCP Validation Information          GIC3
Management Profile: SGC1VAL1          Capture Seqno: 69A83B23
Consistency Group: ZPRODII1.RS1      Capture Time: 2026/03/04.14:01:07
Direct Flash Copy: RS(1) to RC(1)    Data Consistency: 2026/03/04.14:01:11
Validation Seqno: 69A83B29           Validation Start: 2026/03/04.14:01:13
Validation Status: Open               Validation End: .....

Validation          Starting          Ending
Step              Status          UTC TimeStamp    UTC TimeStamp
IPL               Success        2026/03/04.14:01:13 2026/03/04.14:14:53
CUSTOM           Open           2026/03/04.14:14:53 .....

System   System   Load   Load   Flags
Name     Type     SA  CPC.LPAR   Addr  Parms  DAL.. IPL Status
CVP1    ZOS      Y  PS01.PS0138 0EA80 EA8798.1 .YY.. Success
CVP2    ZOS      Y  PS01.PS0139 EA80  EA8798.1 .YY.. Success
CF3     CF        PS01.PS0144          YY... Success

Page 1 of 1
F1=Help F3=Return F5=Refresh F6=Roll F7=Up F8=Down
  
```

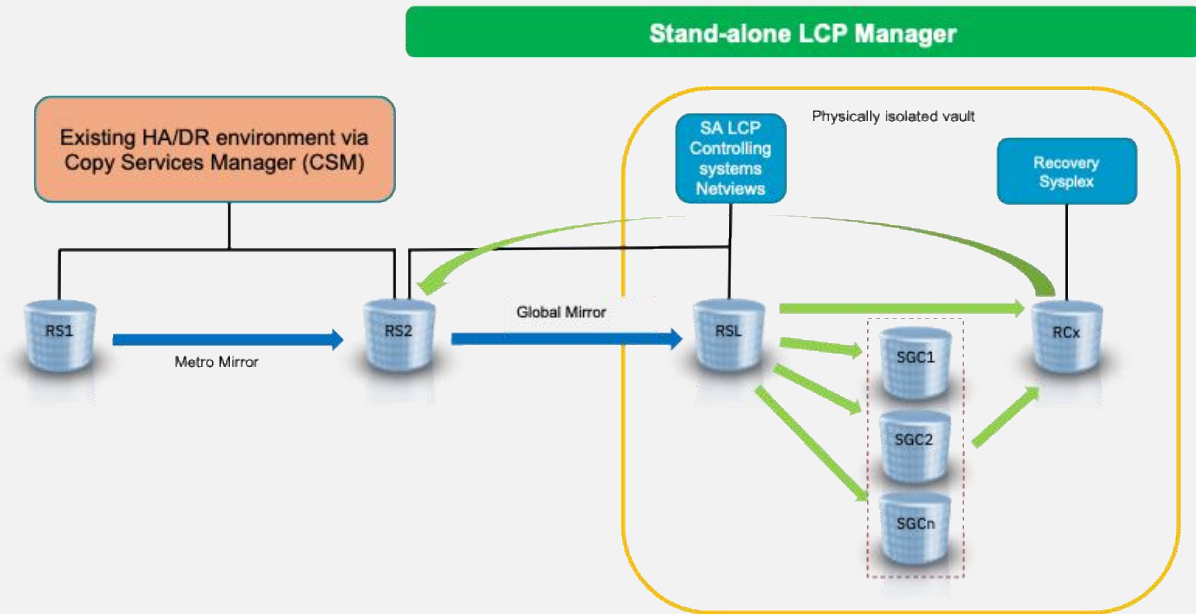
Validation in GDPS 4.9 currently provides support for MM2SITE & MM3SITE with physical isolation only

# Stand-Alone LCP Manager



LCP Manager capability for clients using CSM for HA/DR

- **Integrated validation:** Support for on-demand, automated Type 1 (Infrastructure) validation of Safeguarded Copy backups within the vault.
- **IPL Safeguarded Copies:** Standalone LCP enables you to easily IPL from specific SGC backup for regular validation or ad-hoc forensic analysis.
- **Productized capability:** Standalone LCP Manager is a fully supported offering from IBM. No need to worry about employees with key knowledge leaving the company and leaving you with scripts that no one knows how they work or how to support them.
- **Ongoing investment:** IBM is heavily investing in this space. By moving to LCP Manager, you will benefit from the ongoing enhancements to grow the value year after year with support for new generations of HW and SW and additional value provided at no additional cost beyond the annual S&S.



NOTE: Currently supports Metro Mirror 2-site and Multi-Target Metro Mirror 3-site topologies

# Integration with Threat Detection for z/OS

Upon receiving a TDz alert, the LCP Manager consults configured LCP policies — defined per management profile per event type (READ or WRITE) — to determine which automated actions to take. Supported actions include:

- Issuing alerts (WTO / SDF).
- Taking a new SGC capture to preserve a forensic state.
- Quiescing LCP operations to stop further changes.
- Suspending replication into the vault to prevent out-of-space events and internal roll-offs.

```
VPCPCVPA                               Add an LCP Policy                               BZK1
Policy Name: VAL_SUSPEND_SDF             Policy Name
Alert: SDF                               Issue an SDF alert or WTO message
Capture: NO                              Take a new capture
Quiesce: NO                              Quiesce LCP captures and releases
Suspend Replication: NO                  Suspend Replication to the vault

Enter NO to cancel or YES to proceed with the policy addition

Selection ==> YES
F1=Help  F3=Return
```

```
VPCPMPM2                               Modify an LCP Management Profile                               BZK1
Capture Interval: NO                     Enable automated captures
Capture Start Time: AUTO                 Start UTC time of capture schedule
Capture Retry Delay: MINUTE(1)          Time between capture retry attempts
Capture Retry Count: 3                  Number of capture retry attempts

Monitor Interval: NO                     Enable SGC monitoring
Monitor Start Time: 00:00:00            Start UTC time of monitor schedule

TDz Read Policy: TDZ_READ                z/OS Threat Detection read policy
TDz Write Policy: TDZ_WRITE              z/OS Threat Detection write policy
Validation Policy: VAL_SUSPEND_SDF      Validation failure policy

Enter NO to cancel or YES to proceed with the profile modification

Selection ==> _
F1=Help  F3=Return  F7=Up  F8=Down                               Page 2 of 2
```

Stand-Alone LCP Manager and pure z/OS Proxy environments are not supported in this initial release

# Additional LCP Enhancements



## **Support for 1,024 captures with IBM DS8000 G10**

LCP now supports up to 1,024 Safeguarded Copy backups on IBM DS8000 G10 hardware, aligning with new IBM DS8000 platform capabilities and enabling deeper retention windows for IBM Z Cyber Vault customers.

## **LCP Manager RAS Enhancements**

Improved Reliability, Availability, and Serviceability (RAS) includes:

SDF message stream simplification (phase STARTED messages suppressed upon matching END SUCCESSFULLY).

More informative LCP messages including phase duration, appended sequence numbers, and improved diagnostics for partial captures and validation errors.

## **LCP Scheduler Automatic Retry**

Automatic retry logic extends the LCP Scheduler's ability to recover from transient conditions by retrying captures within configured delay windows. This improves operational stability in high-activity environments.

## **Data Consistency Timestamp saved with every SGC capture**

Each Safeguarded Copy capture now stores a precise data consistency timestamp, recorded at check-in. Panels allow users to toggle between traditional sequence-based timestamps and true data timestamps. This is critical for surgical recovery workflows, for example with IBM Z Backup Resiliency.

## **IPL Information saved with each SGC capture**

For every capture, LCP now records the currently selected LCP IPL information for potential later use. This however is only done for those systems that are defined for automated validation in the GEOGROUP. This improves repeatability and accuracy of validation and forensic recovery.



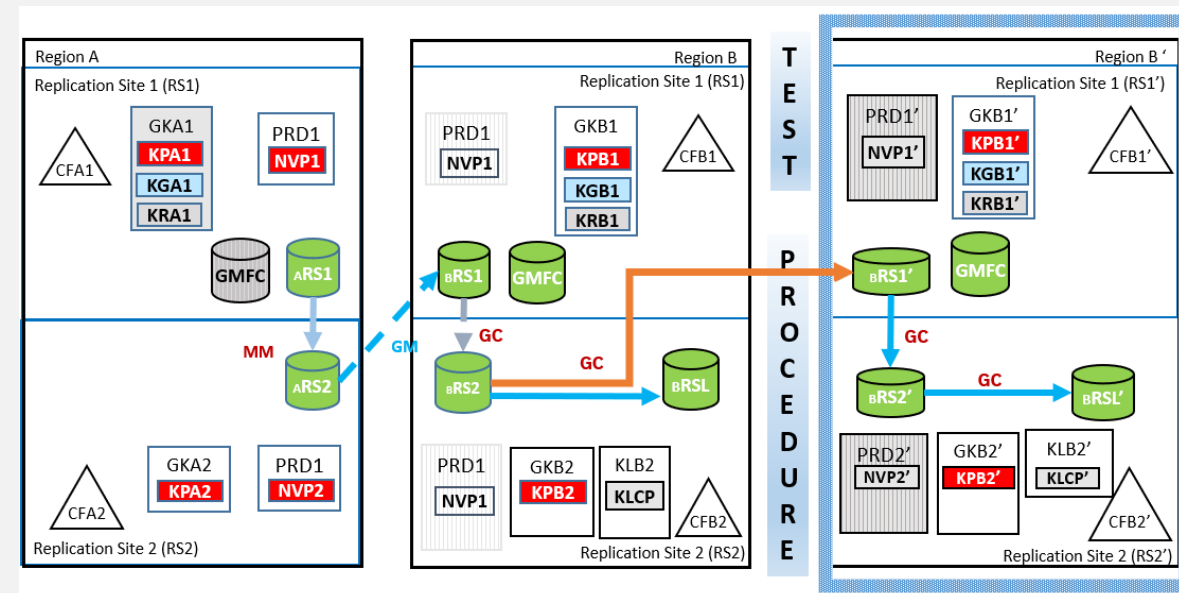
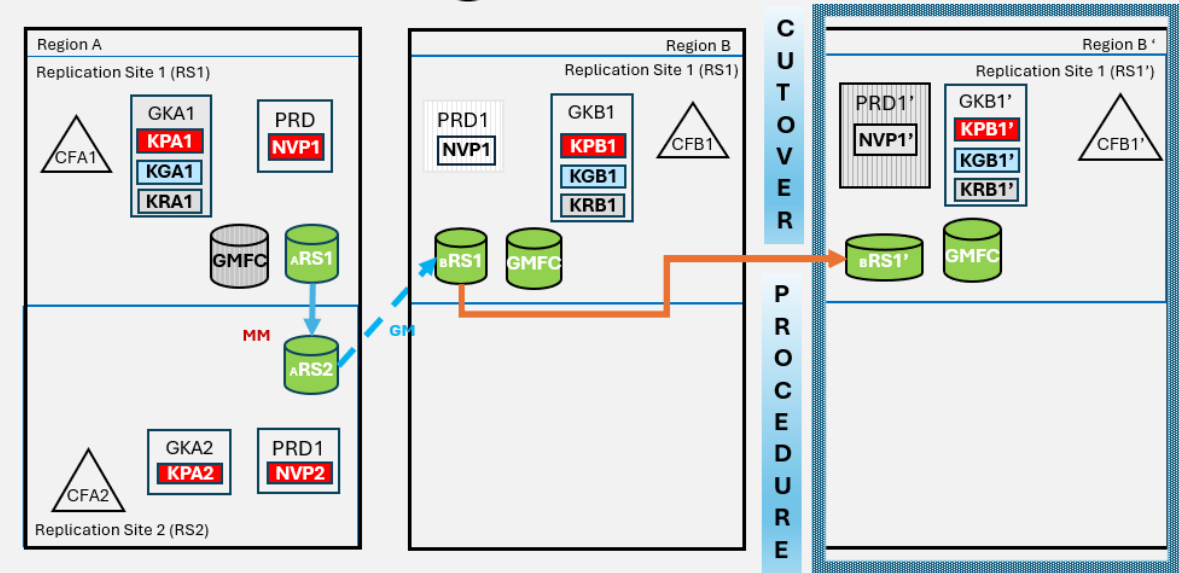
# Data Migration Procedures

Steven

# Data Migration Procedures

- Increased footprint of data migration processes in the documentation. These processes are:
  - Standardized
  - Supported
  - Tested
  - Documented in the MGM Manuals
- MGM4SITE Data Center Migration currently available
- MGM3SITE Data Center Migration available for 4.9 GA
- Documented CEC migration processes available post 4.9 GA
- Documented, supported DASD Migration processes available post 4.9 GA

## Data Center Migration – Cutover Procedure



# Tech previews

Steven

# GDPS Knowledge Agent – tech preview



The AI-enabled GDPS Knowledge Agent is built upon, and requires a licensed version of IBM watsonx Assistant for Z to enable the following capabilities:

- **Domain-specific knowledge integration:** Integrates GDPS documentation, automation assets, and resiliency patterns into a retrieval-augmented generation (RAG) pipeline to ensure accurate and relevant responses.
- **Context-aware conversational handling:** Preserves session context across multi-turn interactions, enabling support for complex use cases such as disaster recovery orchestration and policy customization.
- **Secure and scalable deployment:** Leverages the enterprise-grade security of IBM watsonx Assistant for Z, including role-based access control and seamless integration with IBM Z environments.
- **Applicable to GDPS Metro, Global, Metro Global & CA**

A screenshot of a chat interface. At the top right, it says "You 4:18 PM". Below that is a grey bubble with the question "What is a replication leg?". The response from the "GDPS Assistant 4:18 PM" includes a "Show Reasoning" dropdown and a detailed explanation of replication legs. It also lists "Sources and Citations" with two links to IBM documentation, each with a score and confidence value. At the bottom, there is a text input field with the placeholder "Type something..." and a right-pointing arrow.

# Statement of Direction

Steven

# GDPS Statement of Direction - Complete



- GDPS will introduce Dual Control for GDPS LCP Manager to provide a maker/checker function for pervasive changes, on top of the role elevation capability that is possible with the existing role-based security controls.
- GDPS will be enhanced to support clients who have the requirement for MM3SITE in both regions as opposed to MM2SITE (MGM6SITE)
- GDPS will provide an automation framework as part of the LCP Manager for regular Data Validation in the IBM Z Cyber Vault.
- GDPS plans to extend the Logical Corruption Protection (LCP) Manager capabilities to integrate with GDPS HM and CSM – to deliver a Cyber Vault automation platform for clients using GDPS HM and CSM for replication management.
- IBM intends to extend GDPS LCP Manager to consume event notification from the anti-malware solution for z/OS described in associated z/OS Statement of direction: IBM intends to deliver anti-malware for IBM z/OS and enable policy-driven actions to be taken based on the event.

Green text: Delivered in GDPS 4.7

Blue text: Delivered in GDPS 4.8

Purple text: Delivered in GDPS 4.9

# GDPS 4.9 Statement of Direction



- IBM intends to extend the integration between GDPS LCP Manager and the IBM Z Backup Resiliency product (5698-BR1) to provide real-time notification of Safeguarded Copy lifecycle events to IZBR, including internal rolloff events. These Safeguarded Copy rollofs will be reported as they occur using the same reporting mechanisms as existing Monitor3 and TDz events within GDPS. With real-time event notifications from LCP Manager, IZBR can further improve the efficiency and accuracy of forensic analysis and recovery operations that leverage Safeguarded Copy backups.
- IBM intends to create a new supported GDPS topology, Metro Mirror 4-site (MM4SITE). This enhancement is intended to extend existing three-site Metro configurations by providing 4 site symmetric resiliency. This will provide additional site separation and placement flexibility, enabling more resilient and versatile high-availability and disaster-recovery designs. The MM4SITE topology is designed to help clients address more complex failure scenarios and operational requirements while continuing to leverage GDPS Metro automation for coordinated storage and system management.
- IBM intends to enhance LCP Manager to provide support for additional GDPS topologies with IBM Db2 Expert Recovery Pro 'Db2 Roll Forward' capability.
- IBM intends to enhance Stand-Alone LCP Manager to provide support for Global Mirror 2-site topologies.
- IBM intends to deliver a new GDPS priced feature, the GDPS Common Consistency Group. This will enable a single GDPS control environment to manage a common consistency group for z/OS CKD devices and OPEN Fixed Block Devices.
- IBM intends to extend IBM Threat Detection for z/OS integration within GDPS LCP Manager to support notifications generated by the IBM DS8000 FCM4 threat detection capability.

# Additional information

Steven

# Additional Information



## Websites:

- GDPS <https://www.ibm.com/products/gdps>
- IBM Z <https://www.ibm.com/z>
- IBM Z Resiliency <https://www.ibm.com/z/resiliency>
- Storage <https://www.ibm.com/storage>
- Redbook – GDPS Family: An Introduction to Concepts and Capabilities  
<http://www.redbooks.ibm.com/abstracts/sg246374.html?Open>

## GDPS Website resources

- GDPS: The Enterprise Continuous Availability / Disaster Recovery Solution white paper
- GDPS Pre-requisite Information
- GDPS Training Schedule Links
- GDPS Hardware Qualification Letters
- E-mail: [gdps@us.ibm.com](mailto:gdps@us.ibm.com)



**Thank**

**You!**