

# CA Merge/Modify™ for DB2 for z/OS



## At a Glance

CA Merge/Modify™ for DB2 for z/OS (CA Merge/Modify) accelerates image copy and recovery processes to help you reduce the drain on valuable CPU resources and streamline backup and recovery procedures.

### Key Benefits/Results

- **Performance.** Accelerate the recovery process.
- **Data availability.** Create up-to-date copies, with no impact on online availability of the tables.
- **Flexibility.** Implement the recovery procedures that work best for your business.

### Key Features

- **Enhanced recovery options.** CA Merge/Modify provides the following features that increase flexibility of recovery procedures and accelerate the recovery process:
  - Change accumulation
  - Log accumulation (new image copies)
  - Merged image copies
  - Copy of a copy
- **Catalog and directory maintenance.** Routine maintenance of the SYSCOPY catalog table improves performance of consistency checking, image copy processing, recoveries and reorganizations. Also, regular maintenance of the SYSLGRNX directory table increases the efficiency of DB2 directory scans. With CA Merge/Modify, you can perform regular, automated SYSCOPY and SYSLGRNX cleanup.
- **Usability features.** CA Merge/Modify includes a number of easy-to-use features that simplify the management of image copies, such as online interface, dynamic allocation of sort work data sets, or multitasked reading of archived logs.

## Business Challenges

Finding an acceptable solution to prepare for a fast recovery of DB2 data has long been a dilemma. Using CA Merge/Modify, you can proactively prepare for a fast recovery from system failures, outages and other disasters while your users continue to perform all their normal DB2 operations. It also reduces table space downtime and speeds image copy processing by allowing the creation of additional copies of image copies.

CA Merge/Modify merges DB2 log data with existing image copies, thus creating new, up-to-date image copies without impacting DB2 systems, applications or data availability. Alternatively, the change accumulation functionality lets you accumulate log records from multiple DB2 logs into single, compact file. In addition, the COPY-IMAGE-COPY feature allows creating copies of existing image copies with no impact on online availability of the tables.

## Solution Overview

CA Merge/Modify provides powerful features to prepare for fast recovery scenarios without compromising data availability:

- **New image copies.** Takes non-concurrent or inline existing image copies (full or incremental) and produces a new, up-to-date image copy, by merging the existing copy with activity information from the DB2 archive and, optionally, from active log data sets, without impacting live database objects.
- **Change accumulation.** Creates change accumulation files for DB2 log records for specified tablespaces and indexspaces, to be used during a recovery process to accelerate the application of log records.
- **Merged image copies.** Merges a full image copy with one or more incremental copies to produce an up-to-date full copy, or Merges multiple incremental copies to produce an up-to-date incremental copy.
- **Copy of a copy.** Creates new copies of existing image copy, registered as local or remote and primary or backup, as required for additional recovery options.

CA Merge/Modify supports IBM utility syntax, making conversion from IBM utilities to the CA Technologies product simple.

## Critical Differentiators

CA Merge/Modify helps you perform frequent image copies more quickly and efficiently without impacting data availability. You can proactively prepare for a fast recovery from system failures, outages and other disasters while your users continue to perform all their normal DB2 operations.

### CA Merge/Modify provides the following unique features:

- **Enhanced recovery options** to increase flexibility and accelerate the recovery process:
  - Creating new image copies from existing ones without outage.
  - Creating and using change accumulation files.
- **SNAPSHOT support.** Snapshot image copies converted into normal DB2 image copies registered in SYSIBM.SYSCOPY.
- **QUIESCE control.** Controls whether to quiesce the tablespace before accumulating changes.
- **PREVIEW option.** Lets you preview all messages that result from your job without actually performing the job.
- **Log Labels.** Use log labels to identify log points with convenience.
- **Predefined object lists.** Process predefined lists of objects created with the Object List Manager.
- **Catalog and directory maintenance:**
  - SYSCOPY purging and maintenance: Removes SYSCOPY rows based on age, date, or other actual SYSCOPY row criteria. Inserts and updates in SYSCOPY using SQL-like syntax.
  - SYSLGRNX cleanup: Removes SYSLGRNX records.
  - Data set deletion: Automatically deletes or purges no longer required image copy data sets associated with deleted SYSCOPY and SYSLGRNX records.

## Related Products/Solutions

Besides working as a standalone product, CA Merge/Modify integrates with other database management products by CA Technologies, including:

- **CA Fast Recover for DB2 for z/OS.** Utilizes change accumulation files to accelerate recovery.

For more information, please visit [ca.com/db2](https://www.ca.com/db2)

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