

# CA Database Organizer™ for IMS for z/OS



## At a Glance

CA Database Organizer™ for IMS for z/OS (CA Database Organizer) provides high-speed prefix resolution, data extraction, unloading, loading and reorganization of IMS databases—both offline and online—to improve database availability and performance.

### Key Benefits/Results

- **Online reorganization.** Improve performance while minimizing the impact on the business.
- **Fast unload and load.** Increase database availability and optimize performance.
- **Restructure databases.** Move segments around in the hierarchy without requiring application programming.

### Key Features

- **Offline reorganization.** Addresses the situations where online reorganization is not possible, such as databases with logical relationships or databases that require restructuring.
- **Online reorganization.** The database remains available for reading and updating while CA Database Organizer creates a reorganized database.
- **Prefix resolution.** Quickly reestablishes the logical relationships and enables data access to logically related databases.
- **Extracting data.** Data extraction without adding information to the extracted data maintains proper formatting for distribution to non-IMS processes.
- **Database support.** Supports Full Function, HALDB and Fast Path DEDB databases.
- **Conditional Reorg.** Skips reorganization if a database is not disorganized (depending on user-controlled threshold values).

## Business Challenges

IMS databases are frequently accessed by business applications 24/7, making data availability a critical factor for business continuity. Database updates and inserts can cause segments to be placed in overflow areas, and database expansion can use up the free space. When an IMS database is running out of space or is disorganized, it can degrade performance and require reorganization. Reorganizing a logically related database necessitates an update to prefix information to reestablish the connections between related databases.

Reorganizing using standard utilities becomes too time-consuming to do on a regular basis, but failure to perform regular reorganization can result in performance problems, adversely affecting business operations. It is also critical that database administrators (DBAs) be able to restructure, move segments and change fields within a database efficiently and with minimal impact on end users.

In addition, you may want to utilize IMS data in multiple applications and diverse environments. It can be time-consuming to extract large amounts of IMS data for export to data marts and data warehouses for conversion and migration to relational databases, or for use by applications outside of IMS.

## Solution Overview

CA Database Organizer enables fast unload, load, and online and batch reorganization of IMS databases, helping you minimize the impact of database administration activities and improve the availability of your business-critical data. In addition, it provides high-speed prefix resolution to heal pointers and data extraction to quickly create files for transfer of data to non-IMS environments.

CA Database Organizer also offers the flexibility to examine, modify and delete database segments. As such, this high-performance product assists your DBAs in making structural changes more easily and safely, helping to improve overall database performance.

## Critical Differentiators

In addition to providing fast unload, load, and both online and offline reorganization of IMS databases, the product provides:

- **Conditional reorganization.** Controlled by user-given threshold settings, CA Database Organizer allows you to skip reorganization runs for databases which are not disorganized, significantly saving time and CPU cycles.
- **One-step reorganization.** CA Database Organizer supports reorganization of an IMS database in one step, providing a simple process that increases DBA productivity and IMS application responsiveness.
- **Advanced functionality.** CA Database Organizer includes capabilities that enable DBAs to perform complex tasks easily, increase the speed and integrity of reorganizations and provide faster database access.
  - A database can be converted from a DEDB to HDAM or vice versa. In addition, you can convert a Full Function database to a HALDB structure, including databases with logical relationships.
  - The product supports IOVF and SDEP dynamic online extensions.
  - An API mode uses high-speed access methods to read and write databases.
  - The product interfaces with FAB6 and FAB7 user exits to enable creation of a load file or direct reading of an unload file.
- **IMS Information Repository (IIR).** Results can be stored in the IIR. You can access this stored information to determine trends, compare threshold values to trigger actions or do historical reporting. User-controlled threshold values and database status information being used by Conditional Reorg are also stored in IIR.
- **Command Control Manager.** This common component helps you issue IMS commands in sets and across all the IMS systems in an IMSplex.

## Related Products/Solutions

- **CA Secondary Index Builder for IMS for z/OS.** Integration provides for automatic rebuild primary and secondary indexes after offline and online reorganization.
- **CA Database Analyzer™ for IMS for z/OS.** Enables pointer checking during the image copy process of online reorganization. You can also create a file of root keys during unload for randomizer analysis.

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

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