



HALO™

TAKE CONTROL.

- Prevents lengthy online outages for conversion and restructuring changes
- Makes structure changes and keeps critical databases online during the process
- Implements hardware data compression (HDC) and makes other compression changes
- Supports conversion of internal and external logically related databases
- Enables testing of database and DBRC changes without moving them into production
- Makes JCL generation and job management easy through using a simple ISPF interface

Large database conversions and restructuring can be painful, with outages measured in hours, significantly impacting business operations. With HALO and HALO/FP, from NEON Enterprise Software, database conversions and structure changes can be implemented while online IMS applications continue to run seamlessly. Online outages are reduced from hours to just seconds.

High Availability—Low Outage

Converting a full function database to NEON Enterprise Software Partitioned Database Facility (PDF™) or HALDB requires that the database be taken offline. Unfortunately, critical online business applications that depend on the database are unavailable during the conversion process.

HALO uses NEON Enterprise Software technology to capture online database updates for one database type and apply those updates to another database type—allowing you to perform database conversions and structure changes while keeping critical applications online and operational.

Supports Multiple Database Conversions Types

HALO supports any combination of full function database conversions. For example, you can convert a non-partitioned database to PDF. Or, you can convert a non-partitioned database to a High Availability, Large Database (HALDB).

Seamless Online Data Collection

Using its online Data Collection Facility, the solutions creates shadow copies for use with the conversion or restructuring process while accumulating online updates to the database.

HALO then applies all the updates to the converted or restructured databases. IMS applications remain online and available throughout this process.

Once the database conversion or restructuring process is complete, online updates captured during the process are applied. The solutions put the new database online with a minimal database outage—just long enough to rename data sets and put the new databases back into service, which typically takes seconds.

More Than Conversions

By implementing a wide range of structure changes, HALO and HALO/FP enable you to meet the changing demands of business. When the size requirements for database data sets becomes critical, the solutions can be used to implement hardware data compression (HDC). HALO and HALO/FP can also remove segment compression, change from a different compression method to HDC, and re-evaluate the HDC dictionary for existing compression exits. Tuning changes are supported as well.

With HALO and HALO/FP, critical databases remain online and available during structure, compression, and tuning changes.

Automatically Recognizes Logically Related Databases

Converting or restructuring logically related databases is simple. Both internal (recursive) relationships and external logically related databases are automatically recognized and included during the database conversion or restructuring process.

HALO



“Whenever downtime impairs business transactions, the length of the outage carries serious consequences . . . transactions can be invalidated or clients permanently lost.”

—NETWORK WORLD, JANUARY 5, 2004

Take Advantage of Continuous Availability

HALO and HALO/FP assure high availability of online IMS databases and allow you to implement major alterations to those same databases without having to choose between availability and performance. Now, you can now have both!

TAKE CONTROL.

Product Requirements

- IBM-supported version of z/OS (64-bit mode required)
- IBM-supported version of IMS
- DFSMSdss V1.5 or higher, or Fast Dump Restore version 5.3 level 22 or higher
- DFSORT V1.1 or later or an equivalent SORT product

Supported Databases

HALO

- Full function
- HALDB
- PDF

HALO/FP

- Fast Path (DEDB)

Features

- Supports conversions for IMS full function databases
- Adds or deletes data set groups
- Adds and deletes indexes—as long as HALO does not capture any updates using a deleted index
- Adds new segments when the existing segment parentage is not altered
- Restructures segment data to meet application needs
- Adds new search fields and moves existing search/key fields within the segment
- Changes from VSAM to OSAM or OSAM to VSAM
- Implements HDC and makes other compression changes
- Aids in the implementation of tuning changes
- Allows the changes to be tested without affecting database availability
- Ensures the outage window is kept to a minimum
- Supports DBRC Database Groups and Change Accum Groups
- Creates temporary RECON data sets needed for the conversion or restructuring process

High data availability is a choice. Choose HALO and TAKE CONTROL.

For more information, contact NEON Enterprise Software, Inc. at 888.338.6366 or 281.491.6366, or visit our website at www.neonesoft.com.