# IBM z/OS Data Set Mobility Facility

*Migrate data sets immediately without disrupting applications in IBM z/OS mainframe environments*

## Highlights

- Gain the flexibility to immediately migrate data sets across storage from different vendors and with different disk capacities—without disrupting applications
- Complete IBM® DB2® data migrations and avoid potential outages to help reclaim and redeploy DB2 storage
- Automatically consolidate and migrate selected data-set extents of a multivolume data set, and offer a scheduled divert option

Many IT organizations want to take advantage of the large-capacity volumes on today's more cost-effective, high-performance storage subsystems, but are faced with complex and disruptive data migrations that negatively impact their business applications. Because data conversion onto large volumes is time-consuming and can involve long application outages, IT specialists across organizations recognize the need for tools that can help them move data with greater flexibility, efficiency and reliability at a lower cost while also enabling greater responsiveness to a dynamic marketplace.

IBM z/OS® Data Set Mobility Facility (zDMF) delivers a nondisruptive data migration solution that can help reduce your overall storage costs—regardless of vendor or disk capacity. The IBM host-based software is designed to move critical, allocated mainframe data sets almost immediately, helping ensure applications remain online and available.

With data-set grouping and migration control through an online Interactive System Productivity Facility (ISPF) interface, zDMF provides an alternative to time-consuming, manual data-set migrations.

By migrating groups of data sets across hardware from different vendors and with different disk capacities, zDMF helps you move away from error-prone, manual data-set migrations and avoid the downtime that can impact operations and service level agreements (SLAs).

In addition, zDMF helps reduce the complexity of managing large migrations. With an accelerated data-set migration, you can reduce the cost of deploying new mainframe storage while helping to lower IT labor costs and minimize lease and maintenance overlaps—all while virtually eliminating outages.

## Providing data-set migrations without affecting application availability

By supporting nondisruptive data-set migrations in multivendor environments, zDMF both frees you from manual data-set migration and potentially speeds the deployment of new storage technology. IBM zDMF enables model (MOD) consolidation of any size, including MOD 3, MOD 9 and MOD 54, as well as Extended Address Volumes (EAV). It also streamlines closed data-set copying, enabling you to copy data sets that are closed when migration begins, allowing for faster migration of data sets not in use. Because zDMF also helps simplify the pre-migration process and provides the ability to immediately address unpredictable performance issues, you can see improved performance and potentially lower costs through improved storage efficiencies.

## Establishing effective UCB management and extent consolidation

Moving and consolidating data sets from multiple small-volume subsystems to a few large-volume subsystems can enhance unit control-block (UCB) management. Additionally, since zDMF can complete a DB2 data migration without disrupting applications, you can immediately reclaim hundreds of UCBs and use them to support new business initiatives. IBM zDMF software helps you increase system growth by:

- Providing improved UCB management to allow continued growth of business-critical information
- Enabling immediate redeployment of source storage configuration to accommodate growth and help delay additional hardware purchases
- Exceeding previous industry-standard storage capacity of 65K cylinders through enhanced EAV functionality
- Using nondisruptive migration capabilities to help sustain data integrity and business service levels
- Reducing the number of logical volumes on a device to consolidate several small-capacity volumes onto fewer large-capacity volumes

## Enabling a pending or scheduled divert option and selective extent migration

IBM zDMF also helps you either schedule a DIVERT command or set a "divert when ready" option to allow for automated transitions to the diversion phase. This helps eliminate the need to manually issue the DIVERT command. And, rather than a single approach to data migration, zDMF allows you to migrate selected extents of a multivolume data set. For example, if you have a data set that occupies more than one volume, you can migrate only those extents that reside on a specific volume instead of migrating all extents across all volumes. This capability can shorten migration time, circumvent the need for additional storage and enable more efficient migration management through automation.

| **IBM z/OS Data Set Migration Facility (zDMF) at a glance** | |
|---|---|
| **Software** | Supports all IBM Multiple Virtual Storage (MVS™) software-based operating systems that are currently supported by IBM (for example, IBM z/OS v1.10 software and above). IBM Transparent Data Migration Facility (TDMF®) for z/OS is recommended for use in conjunction with zDMF to allow both data-set and volume-level migrations, providing an efficient and cost-effective migration approach. |
| **Hardware** | Supports 3380 and 3390 volumes formatted with IBM z/OS technology supporting count key data/ extended (CKD/E) format and EAV capabilities. |

## Why IBM?

By integrating proven IBM best practices and expertise with zDMF, IBM can help you minimize the risks, costs and potential for application outages associated with data migration.

## For more information

To learn more about IBM z/OS Data Set Migration Facility (zDMF), please contact your IBM representative or IBM Business Partner, or visit:
**ibm.com**/systems/storage/software/zos/zdmf/index.html

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