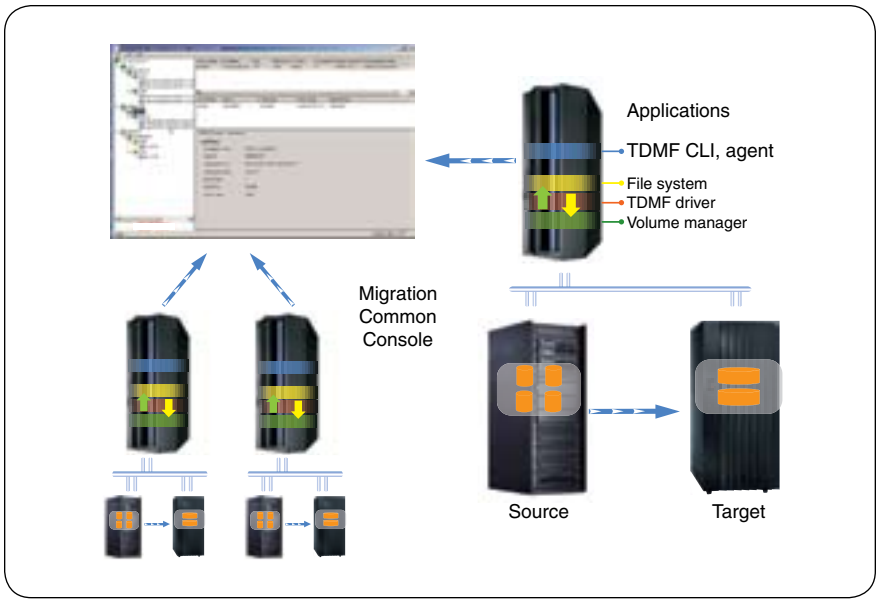
Transferring data quickly—locally—without disrupting the enterprise using a simple, unified solution

IBM Migration Services for data – Softek TDMF UNIX

Highlights

- ***Enables continuous application availability during migrations***
- ***Works with virtually any storage vendor's hardware and in multi-vendor environments***
- ***Moves data locally***
- ***Is designed to ensure data integrity and protection***
- ***Centralizes management for open system migrations through the Common Console***
- ***Standardizes data migration methodology with proven, repeatable practices to plan, move and validate migrations***
- ***Supports IBM AIX®, Sun Solaris and HP-UX environments***



The intuitive TDMF data mobility Common Console can provide centralized monitoring, control and management of migrations across the enterprise.

Streamlining local data movement

Businesses today need a data mobility strategy to mitigate the risks of data loss, application downtime or disruption, or incompatibilities between storage vendors. The IBM Migration Services for data – Softek® TDMF™ (Transparent Data Migration Facility) UNIX® solution is a leading nondisruptive migration product that has been specifically designed to support a simple, unified migration process across the enterprise to help you achieve your infrastructure, budgetary and availability goals.

Enabling nondisruptive dynamic switchover

The Softek TDMF UNIX solution uses a nondisruptive switchover to new storage technology to help ensure that applications can take advantage of the performance characteristics of the new storage hardware without incurring outages. In the event that the new storage technology does not meet expectations, a single command can switch all the application input/output (I/O) back to the original storage hardware while the problem is corrected—without disrupting application availability.

Helping maintain data integrity

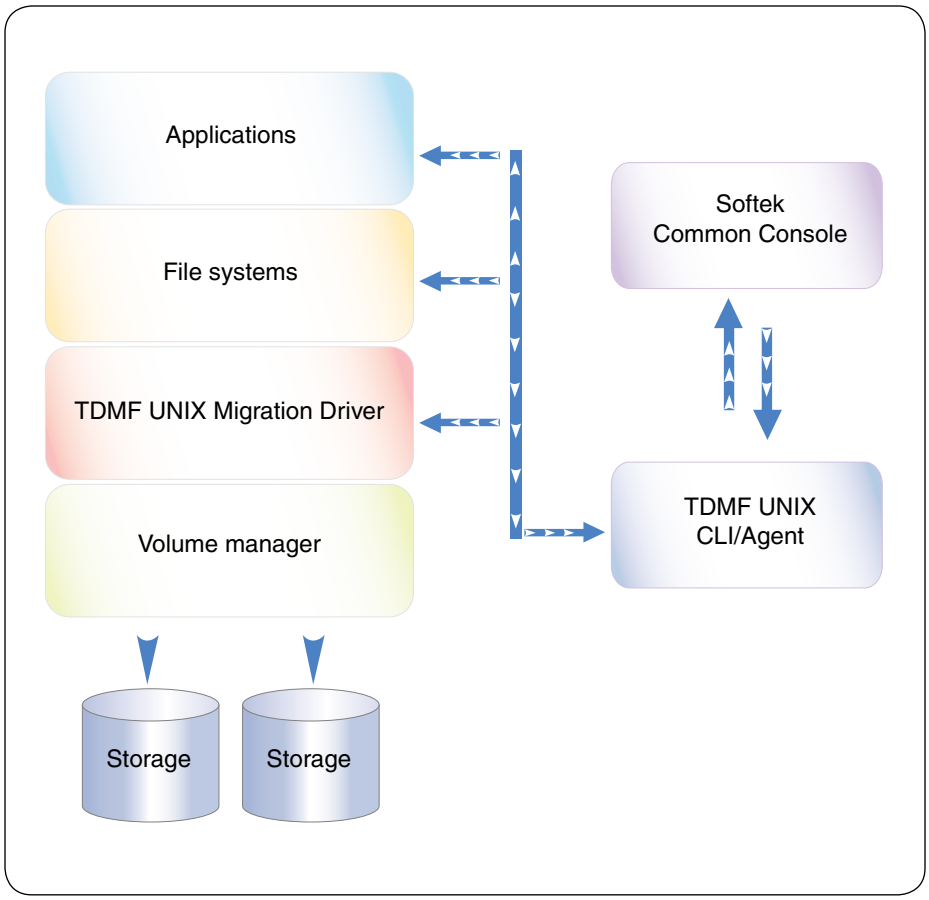
The Softek TDMF UNIX offering helps maintain data integrity with its synchronous write technology, advanced error detection and reporting capabilities. This helps ensure that the target storage is fully synchronized and performing correctly prior to the switchover.

Providing performance control

Application availability and performance are paramount in any migration. The Softek TDMF UNIX solution provides the capability to run at optimum copy speeds when applications are idle and can be adjusted to slower copy speeds when application demands are higher. The Softek TDMF UNIX solution provides control over:

- *Copy rate, through the sleep parameter*
- *Copy granularity, through the block size parameter*
- *Copy concurrency, through the threads parameter, by specifying allowable volumes in the copy state*
- *Volume copy process threads, to allow large volumes to be concurrently copied with four copy processes to further speed migrations.*

In addition, the Softek TDMF UNIX solution employs advanced performance-windowing techniques to reduce I/O blocking during the migration.



The TDMF UNIX architecture: The TDMF CLI enables local operation of migration.

Helping to reduce risk with centralized management

The Softek TDMF UNIX solution includes the TDMF command line interface (CLI), which is designed to allow local operation of migrations to be completely scripted. In addition, the Softek TDMF UNIX solution may be managed through the Common Console, allowing centralized GUI management of multiple migrations.

Moving data with the Softek TDMF family of products

The Softek TDMF family of products is designed to move data volumes online locally or over distance, across platforms, and to or from virtually any storage hardware with minimal or no effect on application availability.

Softek TDMF UNIX platform features, functions and benefits		
Feature	**Function**	**Benefit**
Storage vendor independence	Host-based software migrates data across leading storage environments	Supports flexibility in vendor choice and provides negotiating power
Flexible migration options	Provides control over I/O rate and CPU overhead for read/write, pacing/throttling, tunable copy and replication rate, and adjustable block size of each read/write	Adjustable copy concurrency for speed enables online migration activity while maintaining optimal application performance and service levels
Resilient architecture	Current state of migration is maintained at all times, regardless of graceful or non-graceful shutdown to help ensure continued/recoverable migrations	Migration process can continue in the event of server shutdown and restart
Dynamic switchover	Automatically switches the source and target volumes so the old storage can be removed dynamically	Allows data migration without disruption
Common Console	View and execute migrations in multiple environments from a single console	Easier view and management of large migrations or multiple migrations across the enterprise
Multithreaded copy	Run multiple migrations per single volume	Increase speed of migration—up to four times faster
Volume group tagging	Enables a group of migration volumes to be collectively migrated without disruption	Easier management of large migrations
Dynamic driver	Provides ability to migrate targets during a migration	Delivers the ability to create test beds, online backups

Note: The Softek TDMF UNIX offering supports the IBM AIX, HP-UX (Precision-Architecture Reduced Instruction Set Computing [PA-RISC] and Intel® Itanium® processors) and Sun Microsystems Solaris operating systems. Softek TDMF offerings are also available for the IBM z/OS®, Linux® and Microsoft® Windows® platforms.

With a ten-year track record of reliability, the Softek TDMF offering has become an industry leader in moving data, and it is an ideal software to use when upgrading storage and servers or consolidating and relocating data centers. The products are available in the form of a software license, a project engagement or an element of a managed service agreement.

Softek Nonstop Data Mobility™ offerings from IBM provide a simple, unified solution for moving data without disrupting the enterprise environment—a critical component to IT operational practice.

Why IBM?

IBM, with the acquisition of Softek, combines a comprehensive data migration solution with its existing worldwide delivery expertise in data management in storage array, host and virtualized IT environments. IBM's proven methodology and best practices, together with its worldwide network of IBM Business Partners, can help you increase the flexibility, efficiency and reliability of moving data, supporting your ability to respond more quickly to marketplace dynamics.

For more information

To learn more about the IBM Migration Services for data – Softek TDMF UNIX offering, contact your IBM sales representitive or IBM Business Partner, or visit:

ibm.com/services/storage/migration

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