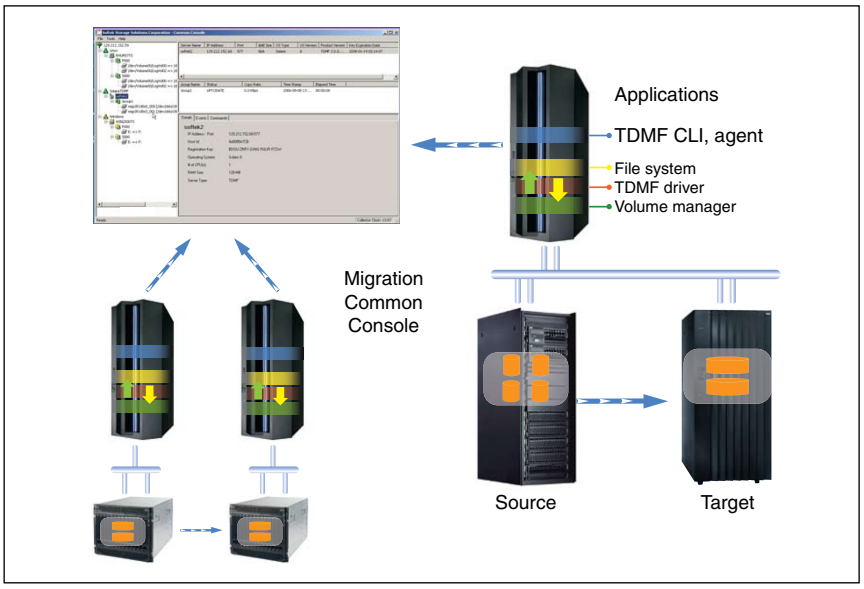
Transferring data quickly—locally and globally—while supporting continuous application and data availability

IBM Data Mobility Services – Softek TDMF UNIX (IP)



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

Highlights

- ***Enables continuous application availability during migrations***
- ***Works with virtually any storage vendor's hardware in multivendor environments***
- ***Provides excellent capabilities for distance data movement***
- ***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®, Solaris, HP-UX and Red Hat Enterprise Linux® environments***

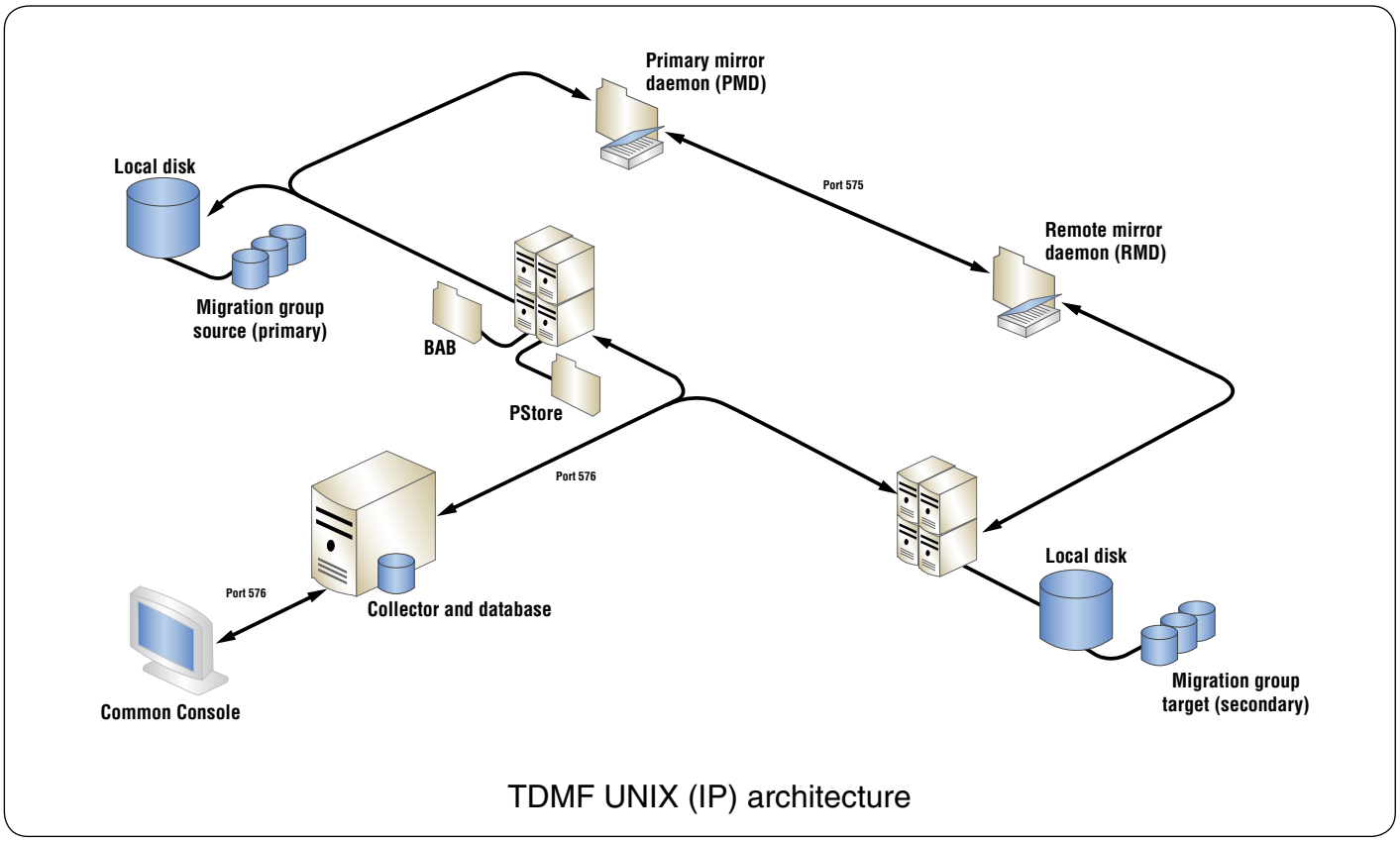
Fulfilling distance data mobility needs

You need a data mobility strategy to keep business running while allowing your infrastructure to change. The IBM Data Mobility Services – Softek™ TDMF™ (Transparent Data Migration Facility) UNIX® (IP) offering is a comprehensive host-based data migration product designed to move data nondisruptively over distance via Transmission Control Protocol/Internet Protocol (TCP/IP) connections. TDMF technology is designed to provide a migration platform and a methodology to help you achieve your data mobility needs successfully.

The Softek TDMF UNIX (IP) offering can help with storage/server refresh or data center relocation or consolidation as part of IT optimization and business continuity strategic initiatives.

Helping to ensure the integrity of data

The Softek TDMF UNIX (IP) offering helps ensure data integrity with its advanced error detection for asynchronous remote migration over a TCP/IP link.



TDMF UNIX (IP) architecture

The Softek TDMF UNIX (IP) architecture uses TCP/IP to perform data transfers.

Aligning performance with application needs

Application availability and performance are paramount in any migration. The Softek TDMF UNIX (IP) offering provides distinctive capabilities to adjust its performance and overhead to align with the needs of the production application.

Softek TDMF UNIX (IP) can be adjusted for activity on the production system to allow applications to continue to run virtually unaffected. Through this mechanism, the user has control over:

- *The maximum bandwidth used by the migration*
- *Network block sizes*
- *Thread and connection concurrency through volume grouping.*

In addition, the Softek TDMF UNIX (IP) offering uses advanced buffering, compression and networking techniques to allow it to run over slow and unreliable networks.

Testing with checkpoint copies

In most distance migrations, it is prudent to perform test cutovers prior to the actual cutover to ensure that all the resources are available and working in the new location. The Softek TDMF UNIX (IP) offering provides a checkpointing mechanism that allows the user to get application-consistent, point-in-time copies of data at the remote location for testing. Logical volumes can be resynchronized after the test without resending all the data.

Moving data with the Softek TDMF family

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

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 TDMF UNIX (IP) 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 input/output (I/O) rate and CPU overhead for read/write, pacing/ throttling, tunable copy and replication rate, and adjustable block size of each read/write	Enables online migration activity while maintaining optimal application performance and service levels
Resilient architecture	Current state of migration is maintained, regardless of graceful or nongraceful shutdown, to help ensure continued recoverable migrations	Migration process can continue in the event of server shutdown and restart
Global migration via TCP/IP	Enables network migration	Optimizes flexibility and allows for remote data migration
Common Console across open systems	View and execute migrations in multiple environments from a single console	Easier view and management of large migrations or multiple migrations across the enterprise
Volume grouping	Enables a group of migration volumes to be collectively migrated without disruption	Easier management of large migrations

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

IBM Nonstop Data Mobility™ offerings 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 Data Mobility Services – Softek TDMF UNIX (IP) offering, contact your IBM sales representative or IBM Business Partner, or visit:

ibm.com/services/storage

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