

# EMC InfoMover



Breakthrough achievement in fast heterogeneous file transfer and file sharing—saving time, cost, and IT resources.

## Information sharing for today's enterprise

Information is power. It enables businesses to enter markets ahead of competitors, discover and exploit opportunities sooner, increase market share, and provide needed services faster and more efficiently than competitors. EMC® InfoMover™ harnesses information and accelerates its delivery, where and when it's needed. Fast access to current data results in better, more informed business decisions and creates a time-to-market competitive advantage.

### The Big Picture

- Accelerates information delivery within the data center
  - Shortens data warehouse refresh times
  - Provides high-speed cross-platform mainframe, UNIX, and Windows NT file transfers
  - Enables open systems file sharing of mainframe data
  - Relieves batch scheduling constraints
  - Switched fabric connectivity for both local or extended distances through your storage network
  - Allows secure cross-platform data transfer using SAN data channels
  - Valuable information lifecycle management tool
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## **EMC InfoMover consists of two components. IFS (InfoMover File System) and IFT (InfoMover File Transfer)**

### ***IFS (InfoMover File System)***

IFS provides open systems users with a transparent, native, file system interface to IBM z/OS operating system catalogs and datasets. IFS is a high-speed, file system interface to mainframe data that allows open systems applications to read or write mainframe datasets directly from or to an attached EMC Symmetrix® storage subsystem. This minimizes impact on both the corporate network and mainframe resources.

The read and write capability allows open systems users to access mainframe datasets as one would any ordinary files on the open systems host.

IFS can also read non-Symmetrix resident mainframe datasets through the use of a TCP/IP network.

### ***IFT (InfoMover File Transfer)***

IFT is a software package that transfers data among z/OS, UNIX, Linux, and Windows environments. With IFT, you can copy datasets or files among a variety of IBM mainframe, UNIX, Linux, or Windows hosts through the high-speed channels of an EMC Symmetrix storage subsystem rather than over a network.

IFT allows you to translate data from one format to another with single-byte translation.

## **A unique solution that increases enterprise productivity**

EMC InfoMover is a unique, high-performance software solution that combines flexible information transfer and sharing capabilities, enabling open access to information within the data center. InfoMover transfers files bi-directionally between any combination of mainframe-, UNIX-, Linux-, or Windows NT-based systems using EMC Symmetrix storage and existing I/O channel connections instead of the network. InfoMover also enables UNIX, Linux and Windows NT-based systems to directly read MVS files using the Symmetrix channels, eliminating the need to move data, thus saving valuable file transfer time.

Mainframe, UNIX, Linux, and Windows NT systems can access information regardless of where it was created. Vital business and operations files residing on your mainframe systems can be easily and quickly accessed by open systems. Files created on your open systems can be transferred to mainframe. Files created on your open systems can be made available to other open systems and Windows NT applications.

By freeing up valuable network resources, InfoMover saves time, money, and resources, resulting in faster time-to-market and opportunity exploitation through the use of all your information resources.

## **Cross-platform information sharing operation**

InfoMover enables seamless information movement between heterogeneous platforms, leveraging the advanced capabilities of Symmetrix to facilitate high-speed transfers between host systems. InfoMover software is installed on each host platform. File transfer may be initiated from either the source or target host. Since InfoMover uses the high-speed global memory of the Symmetrix system and the shared I/O channels as the transport medium, the transfers occur at very high speeds.

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InfoMover provides a familiar FTP-like interface for quick and easy implementation. InfoMover also provides an easy-to-use GUI which supports “drag and drop” file transfers, eases file transfer setup, saves time, and minimizes operator error. The file transfer process, which can be executed as a batch process, can also be saved into a file that can be replayed or modified for future file transfers. The result is improved efficiency, reduced costs, and faster exploitation of business opportunities.

### **InfoMover supports cross-platform file transfers of information resident on alternate sources.**

Using InfoMover with Symmetrix, files can be moved to or from CLARiiON® storage arrays, MVS magnetic tape, and other storage systems, including storage systems from other vendors.

InfoMover also enables shared access to mainframe data from UNIX, Linux and Windows NT-based systems. This shared access is provided by enabling UNIX systems to NFS mount MVS files and Windows NT-based systems to map MVS files. MVS data is then read utilizing the Symmetrix channels, offloading the network and increasing network availability. MVS data integrity is maintained through an InfoMover agent that provides MVS security checking and MVS locking (enqueue/dequeue). Though MVS files appear local to open systems, the data and existing MVS data management utilities remain on the MVS system.

### **InfoMover helps you get your network back**

As networks grow and the volume of data explodes, requests for information dramatically increase. The resulting increase in network traffic negatively impacts the overall capabilities and effectiveness of this high-demand resource. InfoMover is a unique solution that improves file transfers and enables direct data access while offloading network traffic. Reduced traffic means more predictable operation to support other enterprise goals and business needs.

Combined with EMC Connectrix® switches or directors within a storage area network (SAN), InfoMover offers high-speed Fibre Channel connectivity and advanced, highly resilient switching technology to provide bulk data movement to an expanded number of UNIX, Linux, and Windows NT platforms.

File transfer rates of up to 36MB per second for multiple concurrent file transfers can be achieved with all types of I/O channels: ESCON, SCSI, Ultra SCSI, and Fibre Channel. File transfer size is bounded only by the limit imposed by the operating systems involved. Simultaneous with those file transfers, your CPUs can be performing their regular business operations with minimal impact.

### **InfoMover is a key tool in implementing an information lifecycle management strategy**

Information lifecycle management (ILM) is all about placing your data in the most appropriate location based upon its current value and the accessibility traits of users who need it. Perhaps your data was created on a mainframe and stored on an EMC Symmetrix DMX™ or other generation Symmetrix array. But now that data is required by other users that use EMC CLARiiON as their storage system. InfoMover can be used to either share the data in place where it is now located (using IFS), or it can be used to move the data from the Symmetrix DMX to the CLARiiON array (using IFT). In either case, by avoiding the step of putting the data onto an external network, InfoMover proves itself as a key cost-effective technology in the ILM mix.

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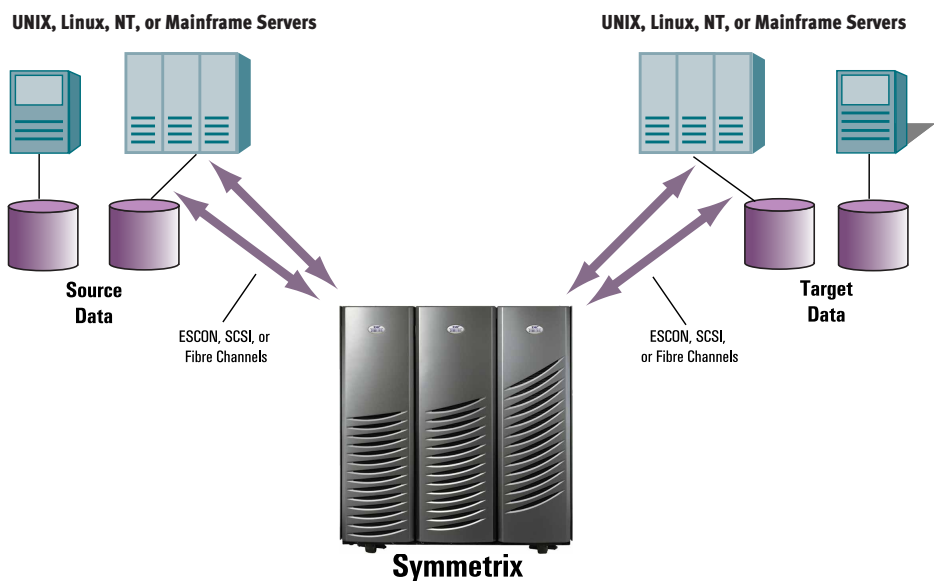
## Additional InfoMover benefits

EBCDIC-to-ASCII and ASCII-to-EBCDIC character translations are handled by InfoMover at the open system server. This data conversion ensures that files are received accurately and are available in the needed format.

InfoMover also supports named pipes on UNIX systems for data input or output. This removes the need to first land the data on the target system and create intermediary files. Users can “pipe” the data directly into a database or third-party application.

## Physically secure data transfer

The increasing pervasiveness of computer networks has made security a top concern for corporate data centers. Using InfoMover IFT, you can transfer data between hosts using only physically secure SCSI and Fibre Channel data channels rather than general-purpose IP network connections.



### InfoMover Supported Platforms

IBM	Mainframe	z/OS 1.2, 1.3, 1.4, 1.5, and 1.6 RISC Systems/6000 AIX 4.3.3, 5.1 and 5.2 (32-bit and 64-bit versions)
Compaq	Alpha	Tru 64 UNIX/Digital UNIX 5.0 or higher
HP	HP 9000 Series	HP-UX V11.X or higher (32 bit and 64 bit versions)
Sun Microsystems	Sparc systems	Solaris 2.7, 2.8, 2.9 (32 and 64 bit versions),10
Microsoft		Windows 2000, 2003
Red Hat Linux		Advanced Server 3.0

Symmetrix 3000  
Symmetrix 5000  
Symmetrix 8000  
Symmetrix DMX systems

## Take the Next Step.

For more information on EMC InfoMover and how it can save time, money, and IT resources for your business, contact your EMC sales representative or authorized EMC value-added systems integrator or call EMC directly. You may also check our website at [www.EMC.com](http://www.EMC.com).



EMC Corporation  
Hopkinton  
Massachusetts  
01748-9103  
1-508-435-1000  
In North America 1-866-464-7381

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