

# ETERNUS SF Replicator

## The true solution for multi-platform and multi-vendor storage data replication

ETERNUS SF Replicator simplifies data storage management for organizations who are deploying critical applications in their UNIX and/or Windows environments by providing a consistent way to manage their data replication/migration —without compromising their 24/7 revenue-generating applications. A high-performance data migration and replication solution, ETERNUS SF Replicator supports your bottom line, mitigates risk to your data and revenue stream and leverages your existing investments in hardware and personnel.

ETERNUS SF Replicator enables data exchange and synchronization to support many uses in your data center, as well as enabling data sharing among remote sites for disaster recovery. It is the only vendor-independent data migration/replication solution that operates at the block level and requires no prerequisite software to implement.

## Key Features

### Maximize Flexibility

The ability to replicate data with or without any volume manager installed on the server allows for seamless integration into the existing production environment. What's more, there are many tunable parameters that can be set, which allow ETERNUS SF Replicator to closely match business requirements. For example, some applications may require that the replicated copy be maintained in a very close state of synchronization, while this may be less critical for others.

The tunable parameters allow this to be controlled to match application recovery or performance requirements.

### Run the Configuration That Meets Your Business Needs

Ideal for both planned and unplanned situations, ETERNUS SF Replicator offers solutions for backup, storage upgrades, disaster recovery, server migration, SAN implementations, application testing, off-host processing and system maintenance.

Multiple configurations, utilizing one or more servers, can be tailored to your business needs.

### Maximize Data Availability During Replication

With ETERNUS SF Replicator applications have full access to source data while replications are in progress, minimizing time needed to perform backups or other scheduled outages.

Our performance tuning capabilities allow for customization of replication activities to ensure production is not affected.

Database replication is supported through logical groups, which can be one or more logical volumes. Logical volumes, as viewed by the file system, are then replicated in logical groups to the target system.

Write order is always preserved within a logical group, which ensures database integrity. Recovery from network failures is automatic.

It is well suited for the following backup scenarios:

- Creating a data copy for backup
- Replicating data for backups to maximize 24/7 data availability
- Supporting planned events such as "hot backups"
- Shortening the backup window
- Enabling consolidated backups from multiple servers
- Replicating to remote sites for enhanced disaster recovery

## Easily Migrate Data to Gain Substantial ROI And Lower TCO

ETERNUS SF Replicator maximizes your existing personnel skills by supporting multiple operating systems. In addition, the ability to replicate data to any hardware vendor's storage devices allows utilization of existing storage hardware, while also providing the ability to negotiate for new technology that best fits business needs.

It is well suited for the following migration scenarios:

- Migrating to a new server
- Migrating direct attached storage into a SAN
- Migrating old to new storage

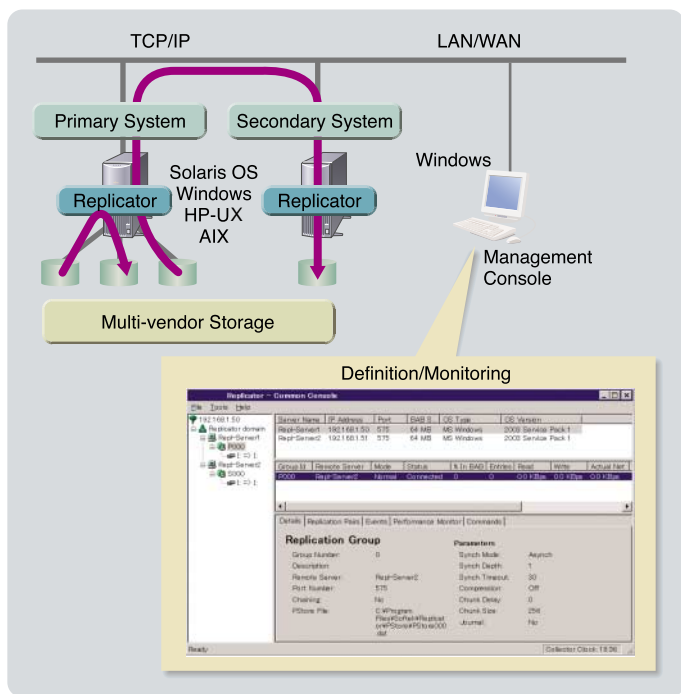
## Enhance Business Recovery/Data Integrity

With ETERNUS SF Replicator the source data is never touched and replicated data is always in a useable state.

It is well suited for the following business continuance scenarios:

- Replicating to a backup server
- Replicating to a standby server
- Mutual failover between two active servers
- Failover from multiple application servers to a single large server
- Failover from one large server to multiple smaller servers

Any of these configurations can be adapted to match your backup requirements.



## How the Product Works

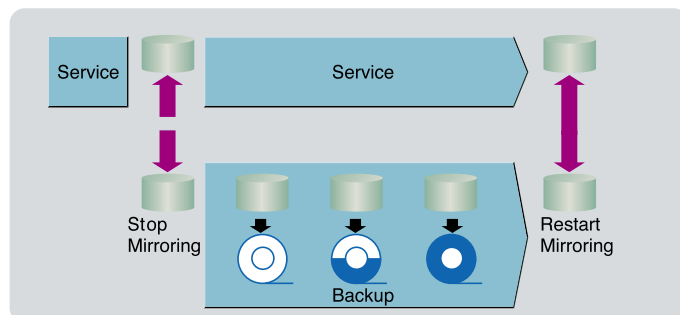
ETERNUS SF Replicator replicates live disk-based data from devices on a primary system to disk devices on a secondary system across any available network connection supporting TCP/IP. Data is duplicated preserving the original write-order in near real time to assure integrity between the two systems in the event of hardware failure, natural disaster or human error.

The replicated data, frozen at a specific point in time, can be made available for reading to applications on the secondary system. This allows replicated data to be used for backup, data analysis or for seeding other applications such as web servers.

Should a failure occur on the primary system, the secondary systems can provide immediate access to contemporary business critical data.

Each disk is partitioned and accessed according to the requirements of the specific operating system. Users can begin replicating existing database or file system data by simply incorporating the devices or volumes on which this data is stored into the ETERNUS SF Replicator configuration.

Disks do not need to be repartitioned or reformatted. File systems do not need to be reinitialized, and data does not need to be imported/exported.



ETERNUS SF Replicator incorporates multi-level recovery software to ensure that users have uninterrupted access to a usable dataset. ETERNUS SF Replicator does not manipulate or corrupt user data in any way. Unlike hardware mirroring or other software replication systems, ETERNUS SF Replicator performs continuous transfers of updated data to a remote site, minimizing data loss and recovery time should a failure occur.

Specifications are subject to change without notice. For the latest detailed information, contact your local representative.

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