



# FileSync & Command Stream Replicator

***They Replicate Everything  
That  
Other Replicators Don't!***

# TANDsoft Products

## FileSync

Synchronizes applications and files between HP NonStop servers.  
FileSync-Audit replicates non-audited Enscribe files.

## Command Stream Replicator

Automatically replicates DDL structure, non-audited and HP utility operations to backup system .

## OPTA2000

Multiple applications operating in a consolidated environment or on a single server can each have their own virtual clock or virtual time zone.

## Enscribe-2-SQL Toolkit

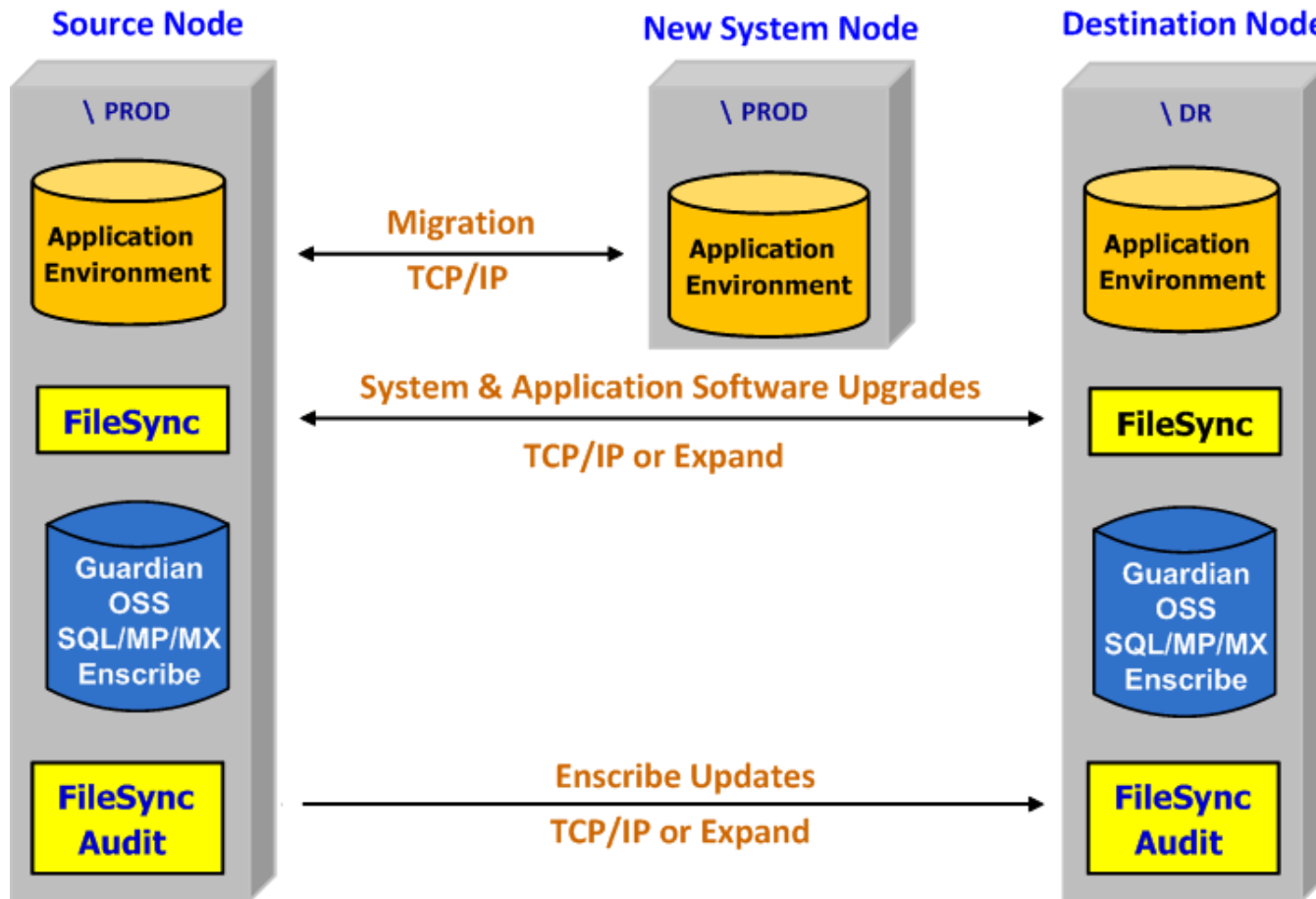
A flexible, affordable alternative to more expensive conversion products or manual conversion techniques.

## TMF-Audit Toolkit

Permits easy conversion of non-audited TMF files to audited TMF files.

# FileSync

## Replication & Synchronization Software



# FileSync

## Replication & Synchronization Software

### FileSync

Automatically monitors, replicates and synchronizes non-database files and application environments. Use for disaster recovery, migrations, upgrades, and backups. Supports a wide variety of file types.

### FileSync-Audit

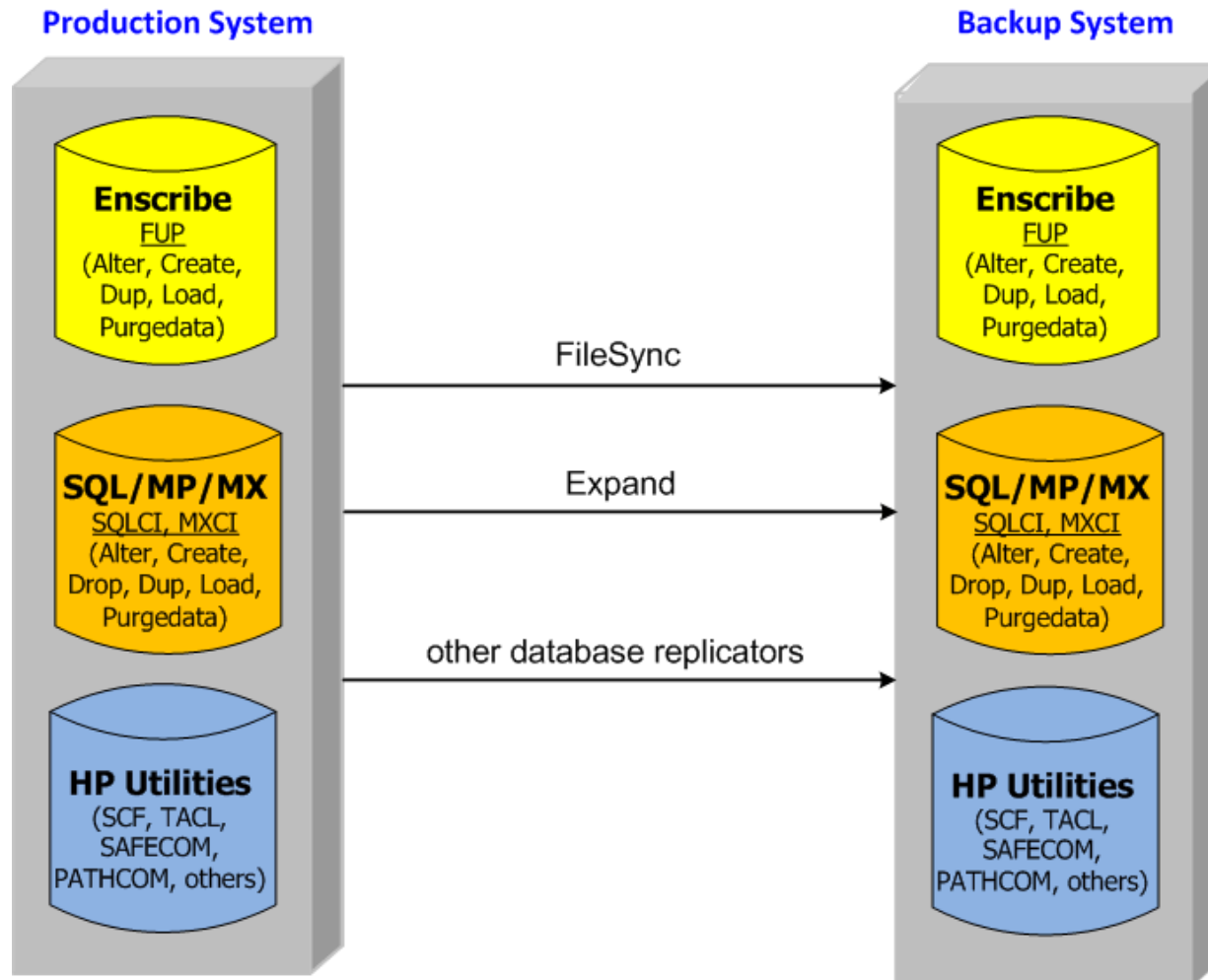
Replicates non-audited Enscribe file modifications (not entire file) to backup system.

# FileSync

## Features

- Supports Expand and TCP/IP.
- Netbatch and FileSync scheduling capability.
- Supports Enscribe and OSS files. Also supports SQL/MP and SQL/MX objects.
- Automatic or scheduled file synchronization between Guardian and OSS.
- Uses TCP/IP to migrate systems. Synchronize files to new system with same node name.
- Incorporates fault tolerance, parallel processing, qualified file wildcarding, and SQL/MX filters.
- Additional options – Security, Purge, Reporting, Triggers.
- Complements NonStop data-replication products.

# Command Stream Replicator



# Command Stream Replicator

## Overview

- Provides automatic replication of NonStop DDL operations to the backup database.
- Eliminates manual operator intervention for DDL changes on the backup system.
- Provides replication of HP utilities (FUP, SQLCI, MXCI, SCF, TACL) operations to the backup system.

# Command Stream Replicator

## Features

- Replicates NonStop DDL (SQL/MP, SQL/MX, Enscribe) operations that are not replicated by RDF and other database replicators.
- Replicates file-label, non-audited, and HP utilities (FUP, SQLCI, MXCI, SCF, TACL) operations to the backup system.
- Increases NonStop database availability.
- Can be used with all NonStop data-replication products.

# File Sync & Command Stream Replicator

## Replicate What Other Replicators Don't!

### FileSync

- Synchronizes non-DB files, programs and sub-system configuration files, including Guardian, OSS, and SQL/MP/MX.
- Uses TCP/IP to migrate files to new system with same node name.
- Incorporates parallel processing, qualified file wildcarding and SQL/MX filtering.
- TACL triggers for pre-synchronization and post-synchronization processing.

### FileSync-Audit

- Replicates Non-Audited Enscribe files.

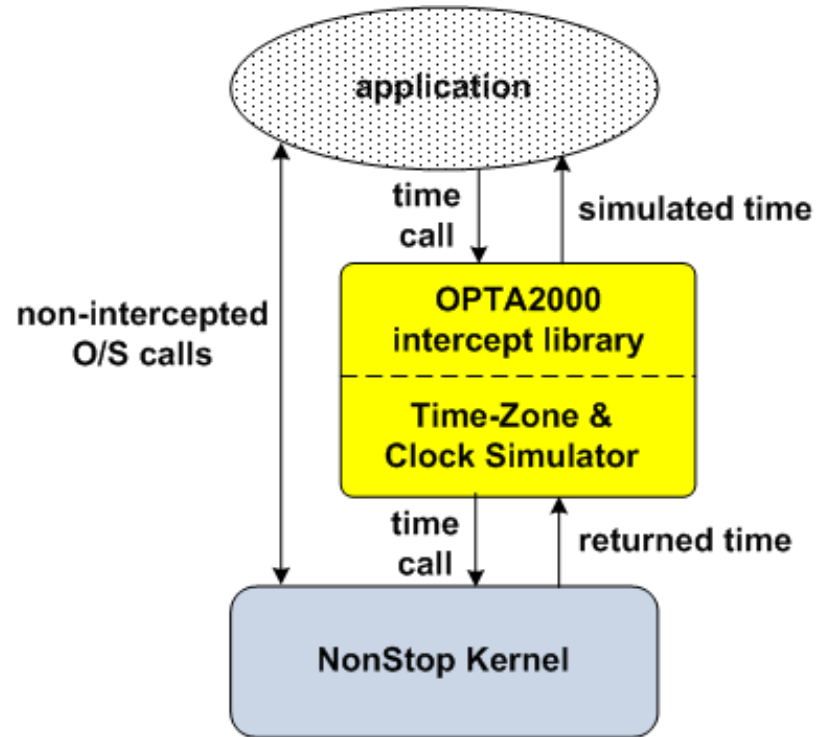
# File Sync & Command Stream Replicator Replicate What Other Replicators Don't!

## Command Stream Replicator (CSR)

- Replicates Enscribe and SQL/MP/MX DDL operations to the backup database.
- Synchronous or asynchronous execution of HP utility (FUP, SQLCI, MXCI, SCF, TACL, SAFECOM, PATHCOM, others) operations on the backup system.
- Preserves node-centric naming across systems.

# OPTA2000

## Time-Zone and Clock Simulator



***One system clock. Multiple current times. Multiple time zones.  
No Problem!***

# OPTA2000

## Time-Zone and Clock Simulator

### Time-Zone Simulation

OPTA2000 creates virtual time zones that allow existing production and backup systems to support worldwide consolidated environments.

### Clock Simulation

OPTA2000 creates virtual times that can be offset arbitrarily from the system time. Remember Y2K?

***One system clock. One current time. One time zone.  
No Problem!***

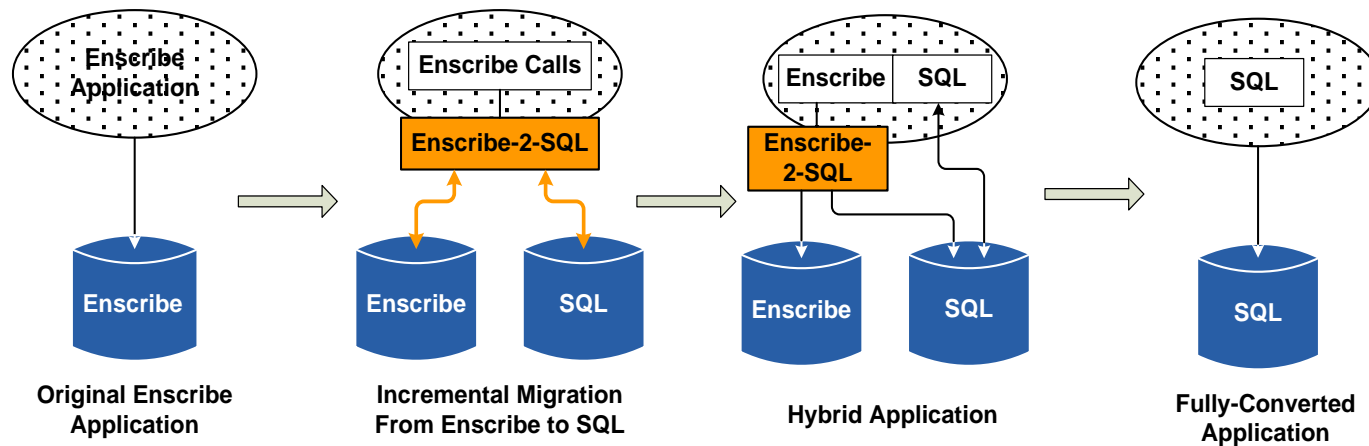
# OPTA2000 Features

## Supports All NonStop Applications (TNS, TNS/R, and TNS/E)

- No changes necessary to customer applications.
- Supports major third-party applications.
- Virtual time-zone feature supports worldwide consolidated environments. Multiple time zones on one NonStop server.
- Virtual clocks allow consolidation of multiple environments. Multiple system clocks on one NonStop server.
- Supports Daylight Saving Time (DST) transitions.
- Does not interfere with other applications on the same system.
- Ideal for customers consolidating servers onto Integrity NonStop or Blades.

# Enscribe-2-SQL Toolkit

*Affordable, Flexible, High Performance*



Migrating from Enscribe to SQL with the Enscribe-2-SQL Toolkit

# Enscribe-2-SQL Toolkit

## Overview

- Offers a flexible, affordable alternative to more expensive conversion products or manual conversion techniques.
- Toolkit library includes an API that enables developers to write procedures that specify how each Enscribe operation maps to the desired SQL operation.
- No changes to the Enscribe applications are necessary.
- Full conversion flexibility otherwise available only with manual conversion is retained.

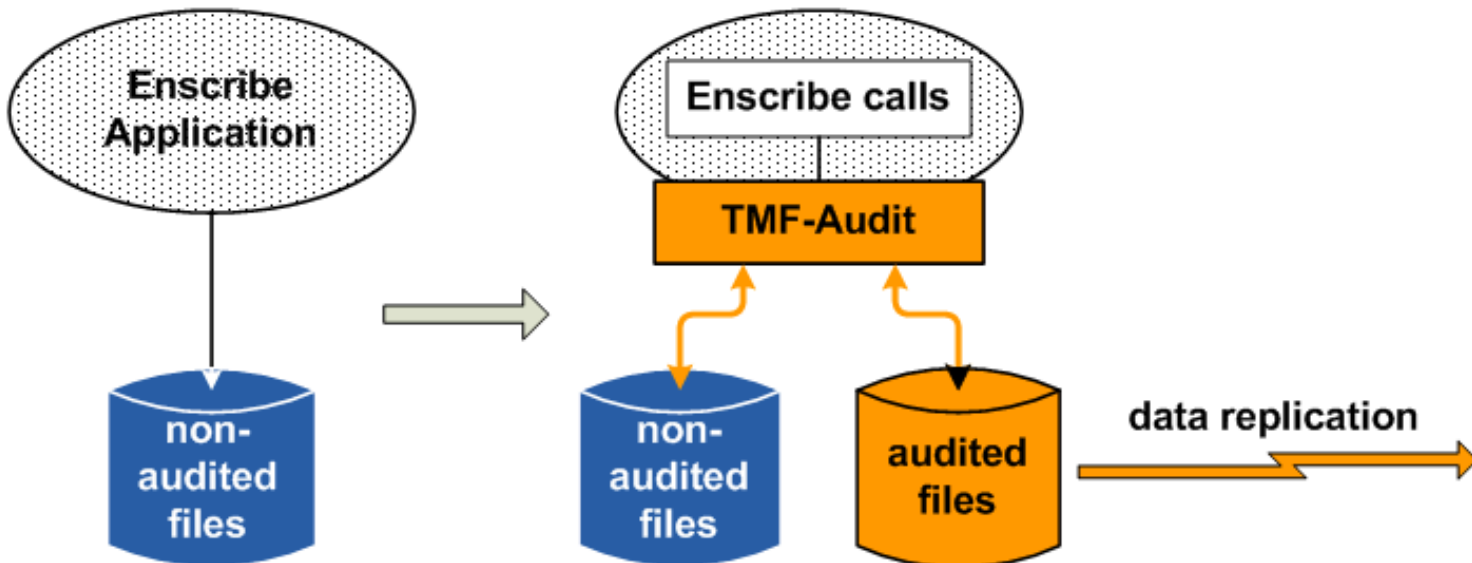
# Enscribe-2-SQL Toolkit

## Features

- Available on all HP NonStop servers.
- Offers unlimited conversion flexibility.
- Automatically generates equivalent dynamic SQL/MP statements to access the SQL database.
- Custom SQL statements can be coded with the toolkit API for complex operations and maximum performance.
- No privileged code required.
- Supports full Enscribe API.
- Supports both static and dynamic SQL.

# TMF-Audit Toolkit

*Easy conversion of non-audited TMF files to audited TMF files*



# TMF-Audit Toolkit

## Overview

- Offers a flexible, affordable alternative to more expensive conversion products or manual conversion techniques.
- Toolkit library includes an API that enables developers to write procedures specifying the TMF transaction boundary.
- No changes to Enscribe applications are necessary.
- Full conversion flexibility otherwise available only with manual conversion is retained.

# TMF-Audit Toolkit

## Features

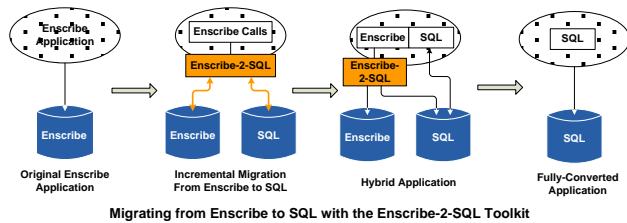
- Available on all HP NonStop servers
- Supports full Enscribe API
- Permits file-by-file incremental migration and application-by-application incremental migration
- No privileged code required
- Online backups for 24x7 availability
- Improved application database performance
- Enables replication with RDF, Shadowbase, DRNet, GoldenGate, etc.

# Thanks for Watching

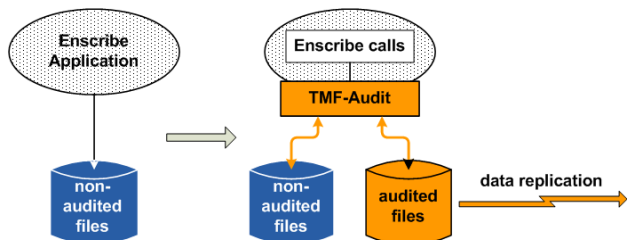
## Any Questions?

Ask them now, or contact me later at  
[jack.digiacomo@tandsoft.com](mailto:jack.digiacomo@tandsoft.com)

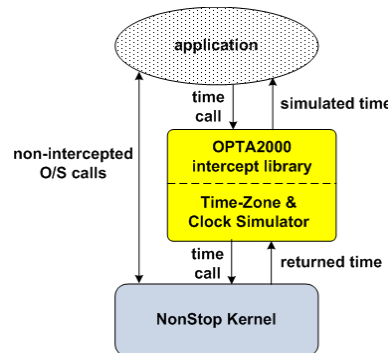
### Enscribe-2-SQL Toolkit



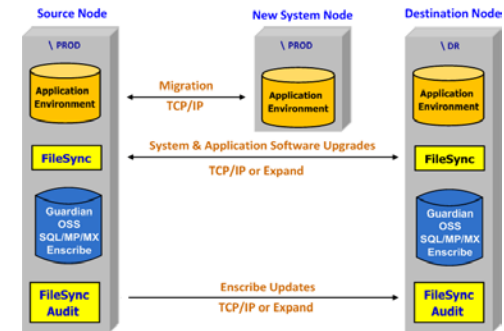
### TMF-Audit Toolkit



### OPTA2000



### FileSync



### Command Stream Replicator

