

# New Enscribe-2-SQL and TMF-Audit Toolkits

TANDsoft also offers:

OPTA2000 - clock and time-zone simulator

FileSync - replication and synchronization  
software for non-database files and  
application environments

# TANDsoft Products

## 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.

## OPTA2000

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

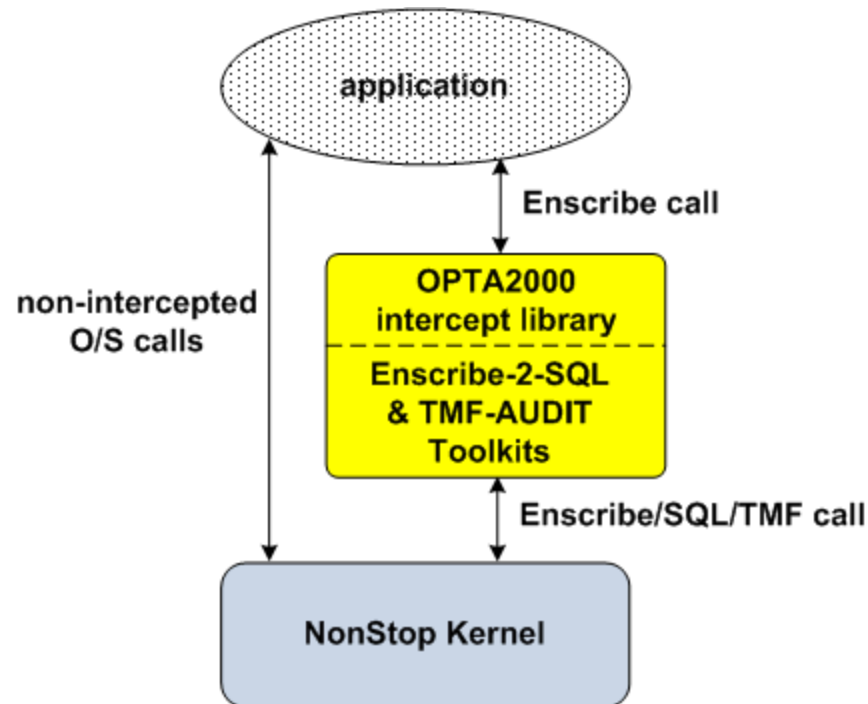
## FileSync

Synchronizes applications and files between HP NonStop servers.

FileSync-Audit replicates only Enscribe file modifications.

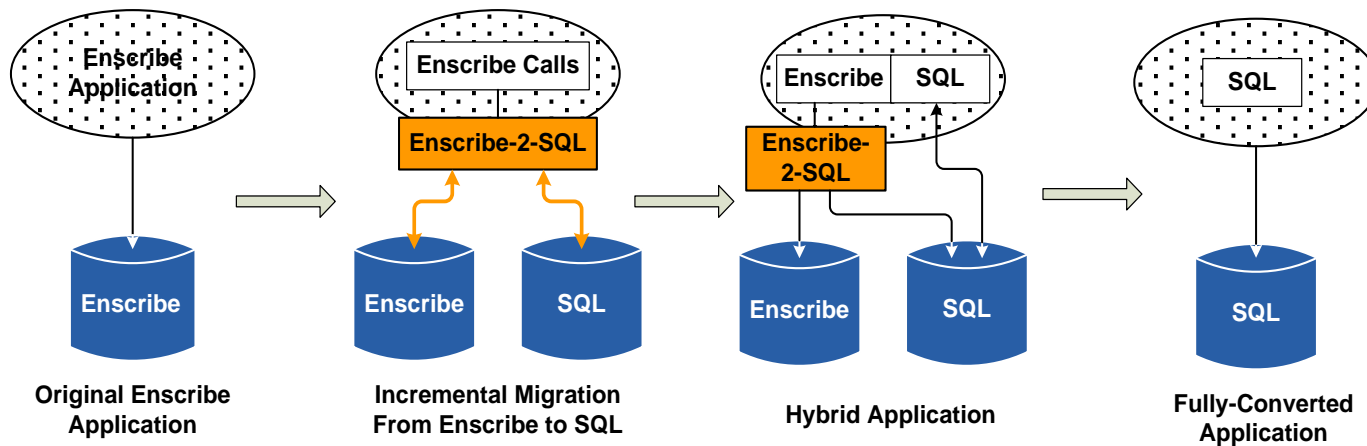
# Both Enscribe-2-SQL and TMF-Audit Toolkits

## Use Existing OPTA2000 Intercept Technology



# 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
- Supports both SQL/MP and SQL/MX
- No privileged code required
- Supports full Enscribe API
- Supports both static and dynamic SQL
- Reusable SQL mapping
- Optional hybrid programs for further flexibility

# Enscribe-2-SQL Toolkit

## Features

- **Permits file-by-file incremental migration and application-by-application incremental migration**
- **Supports joins and other complex set operations for maximum performance**
- **Can maintain dual Enscribe and SQL copies of the data**
- **Works with existing HP NonStop utilities – FUP, Enform, etc.**
- **Supports Enscribe Key, Relative, and Entry sequenced files**

# Enscribe-2-SQL Toolkit

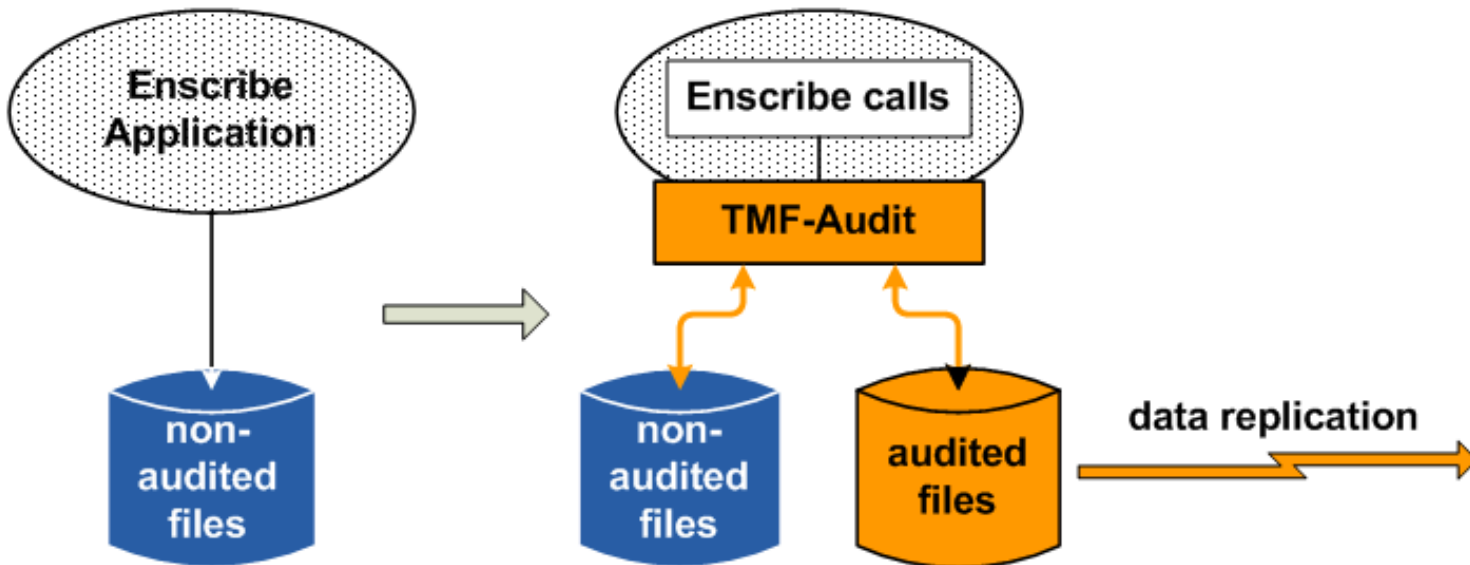
## Replace Enscribe Files with SQL/MP or SQL/MX Tables

- **CONVERT** - HP tool used to convert Enscribe file described in a Data Definition Language (DDL) dictionary to SQL table.
- **LOAD** - HP tools (SQLCI LOAD, COPY or DataLoader/MP/MX) used to load data from an Enscribe file to SQL table.
- **PREPARE** - Enscribe application using Enscribe-2-SQL Toolkit and SQL access code (Enscribe file to SQL DB mapping).
- **EXECUTE** - prepared Enscribe application.
- **RESULT** - Open SQL/MP or SQL/MX relational database ready for use by:
  - a multitude of supported platforms, third-party applications and tools.
  - new customer SQL applications or hybrid (Enscribe/SQL) applications.



# TMF-Audit Toolkit

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



# TMF-Audit Toolkit

## Overview

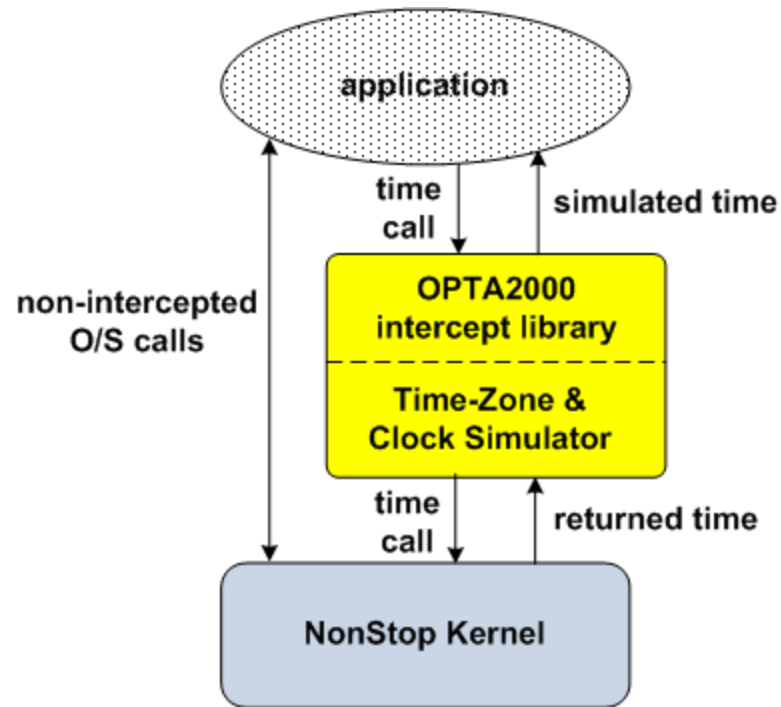
- Offers a flexible, affordable alternative to more expensive conversion products or manual conversion techniques.
- Toolkit library includes an API that enables developers to write procedures specifying the TMF transaction boundary.
- No changes to Enscribe applications are necessary.
- Full conversion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

# OPTA2000 Time-Zone and Clock Simulator



# 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!***

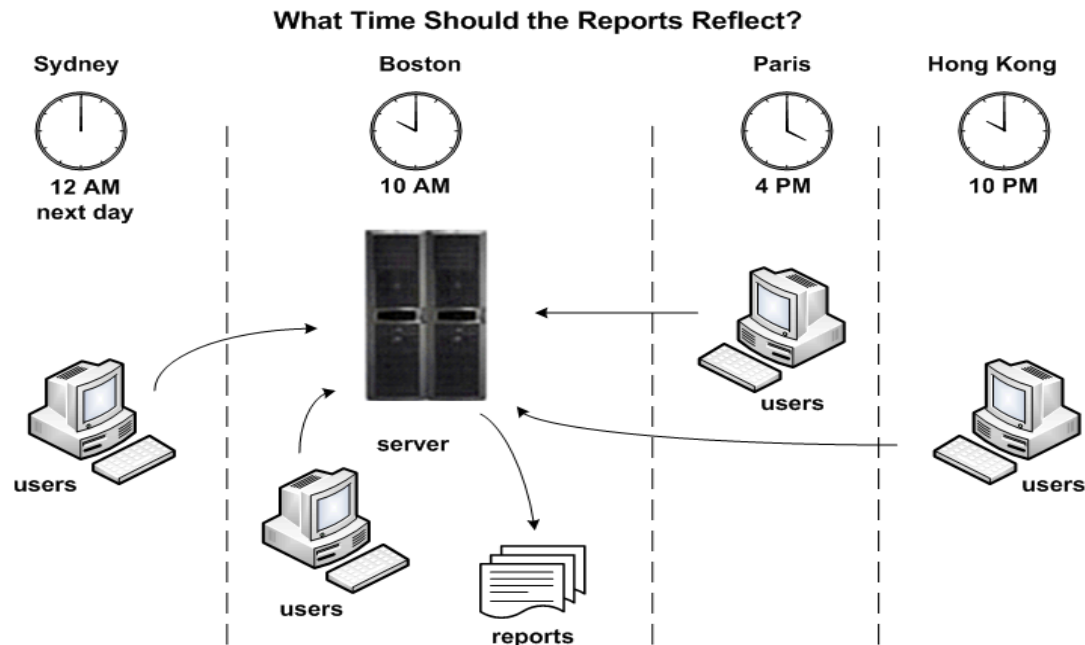
## OPTA2000 Features

### Supports All NonStop Application Types and Platforms (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.
- System View – for selected applications or users, permits access to specific CPUs only.
- Ideal for customers consolidating servers onto Integrity NonStop or Blades.

# Time-Zone Simulation – A Consolidation Challenge

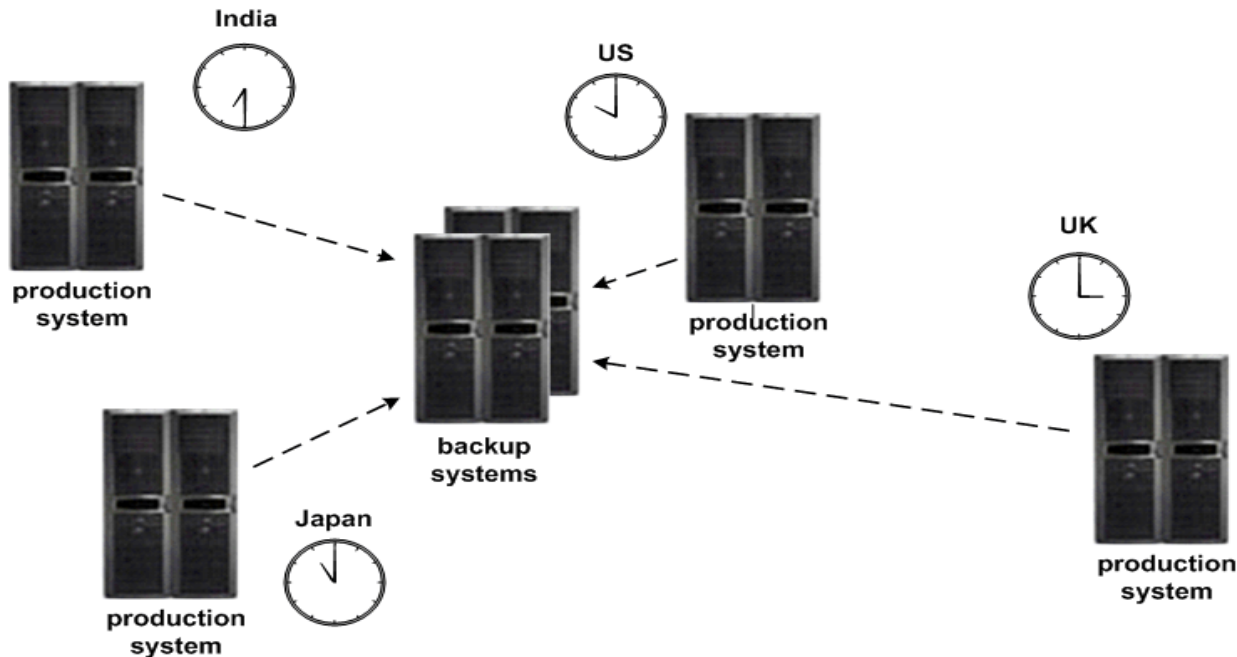
A Major U.S. East Coast Bank Uses OPTA2000 to Run Global NetBatch Environments From Its Central Data Center.



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

# Time-Zone Simulation – A Consolidation Challenge

A Global Manufacturer Uses OPTA2000 to Consolidate All of Its Worldwide Disaster-Recovery Systems into One U.S. Based Center.

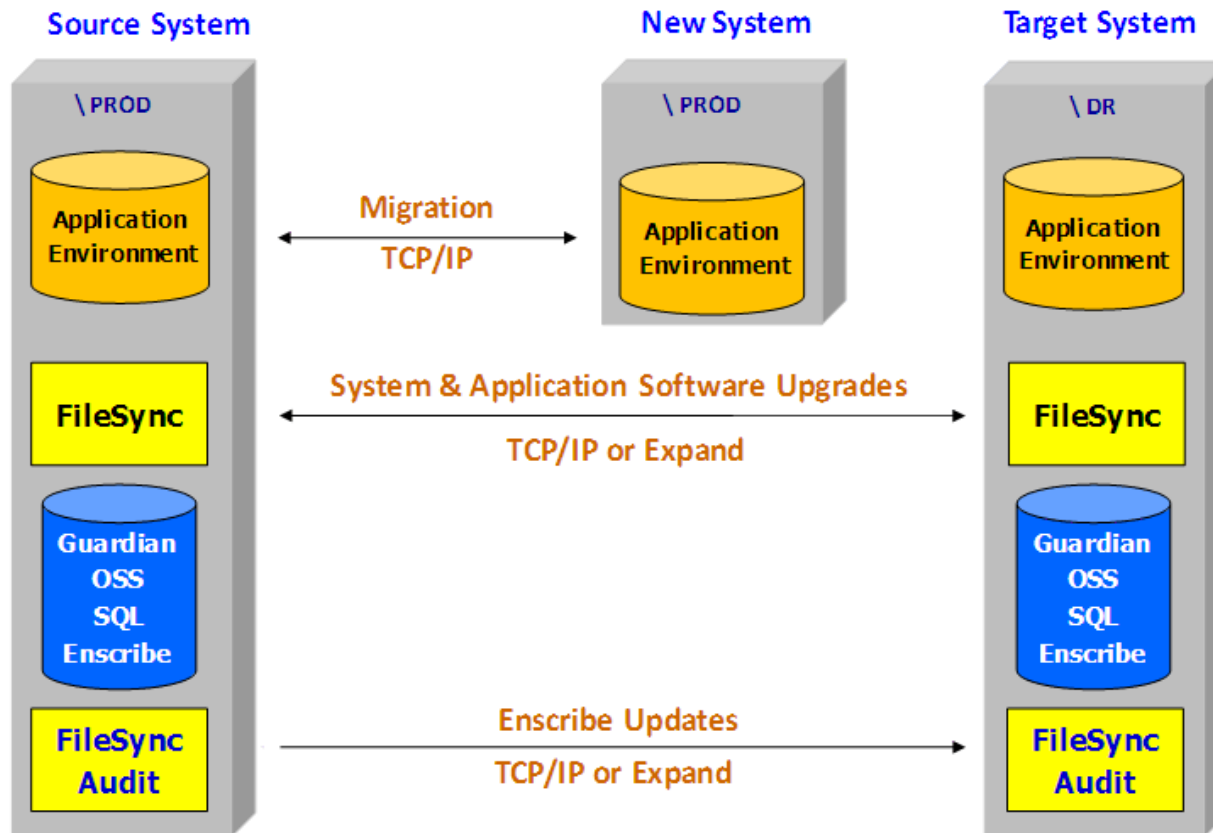


*One system clock. One current time. One time zone.*  
**No Problem!**



# 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 only Enscribe file modifications, not entire Enscribe files, in order to efficiently synchronize all files across the network.

# FileSync

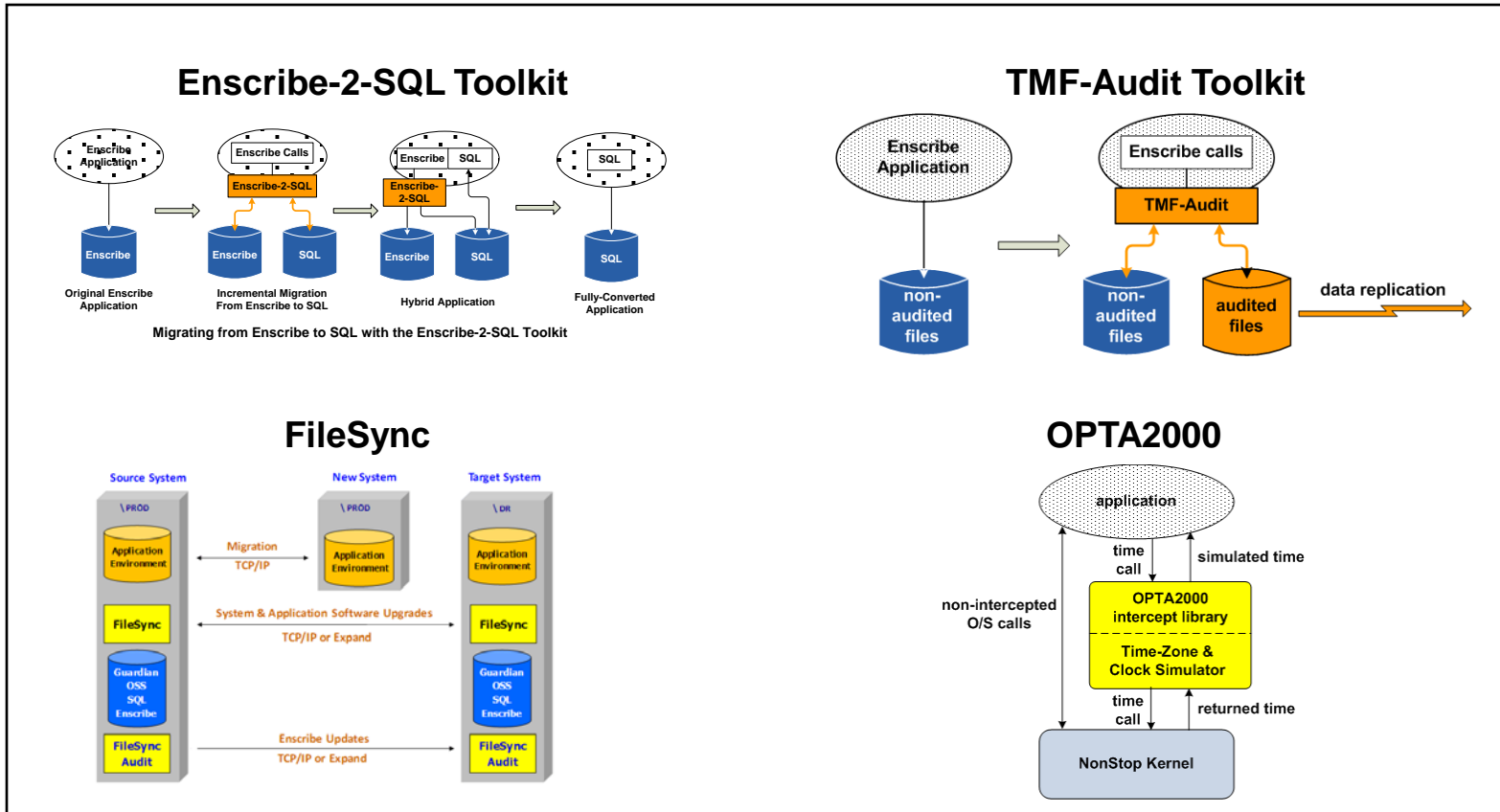
## Features

- Supports Expand and TCP/IP
- Netbatch and FileSync scheduling capability
- Supports Enscribe, OSS, SQL/MP and SQL/MX files
- 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
- Additional options – Security, Purge, Reporting, Triggers
- Complements NonStop data-replication products

# Thank You For Attending!

## Any Questions?

Ask them now, visit me at the TANDsoft booth, or contact me later at [jack.digiacom@tandsoft.com](mailto:jack.digiacom@tandsoft.com)



# Thank You For Attending!

**Jack Di Giacomo**  
**TANDsoft, Inc.**  
**349 Robin**  
**Beaconsfield,**  
**Quebec**  
**Canada H9W 1R7**  
**(514) 695-2234**  
[jack.digiacomo@tandsoft.com](mailto:jack.digiacomo@tandsoft.com)  
[www.tandsoft.com](http://www.tandsoft.com)



Jack and son Phillip at father/son hockey game in Montreal, Canada

***TANDsoft's HP NonStop solutions include time-zone virtualization, time-sensitive application testing, file synchronization for disaster recovery, and the new Enscribe-2-SQL and TMF-Audit toolkits.***