



# Interception, Replication, and Consolidation Solutions

## *OPTA2000*

clock & time-zone simulator

## *FileSync*

replication & synchronization software

## *TMF-Audit Toolkit*

easily converts non-audited TMF files to  
audited TMF files

## *Sensitive Data Intercept (SDI)*

protects sensitive data at rest

## *Enscribe-2-SQL Toolkit*

flexible, affordable alternative for Enscribe to SQL  
conversion

## *Command Stream Replicator*

automatically replicates DDL structure, non-audited  
and HP utilities operations to backup system

## *OPTA*

suite of interception and trace utilities for  
customizing NonStop applications

# TANDsoft Products

## FileSync

Synchronizes applications and files between HP NonStop servers.  
*With FileSync deduplication, only changed data is transmitted.*

## Command Stream Replicator

Automatically replicates DDL structure, non-audited and HP utilities 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.

## TMF-Audit Toolkit

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

# TANDsoft Products

## Enscribe-2-SQL Toolkit

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

E2S-Lite enables efficient, low-cost Enscribe modifications.

## OPTA

OPTA's suite of interception and trace utilities includes Recycle Bin, OPTATrace Online Process Tracer and Analyzer, EMS Alerts Online Startup and Termination Capture Utility, and Low Pin Optimizer.

## Sensitive Data Intercept (SDI)

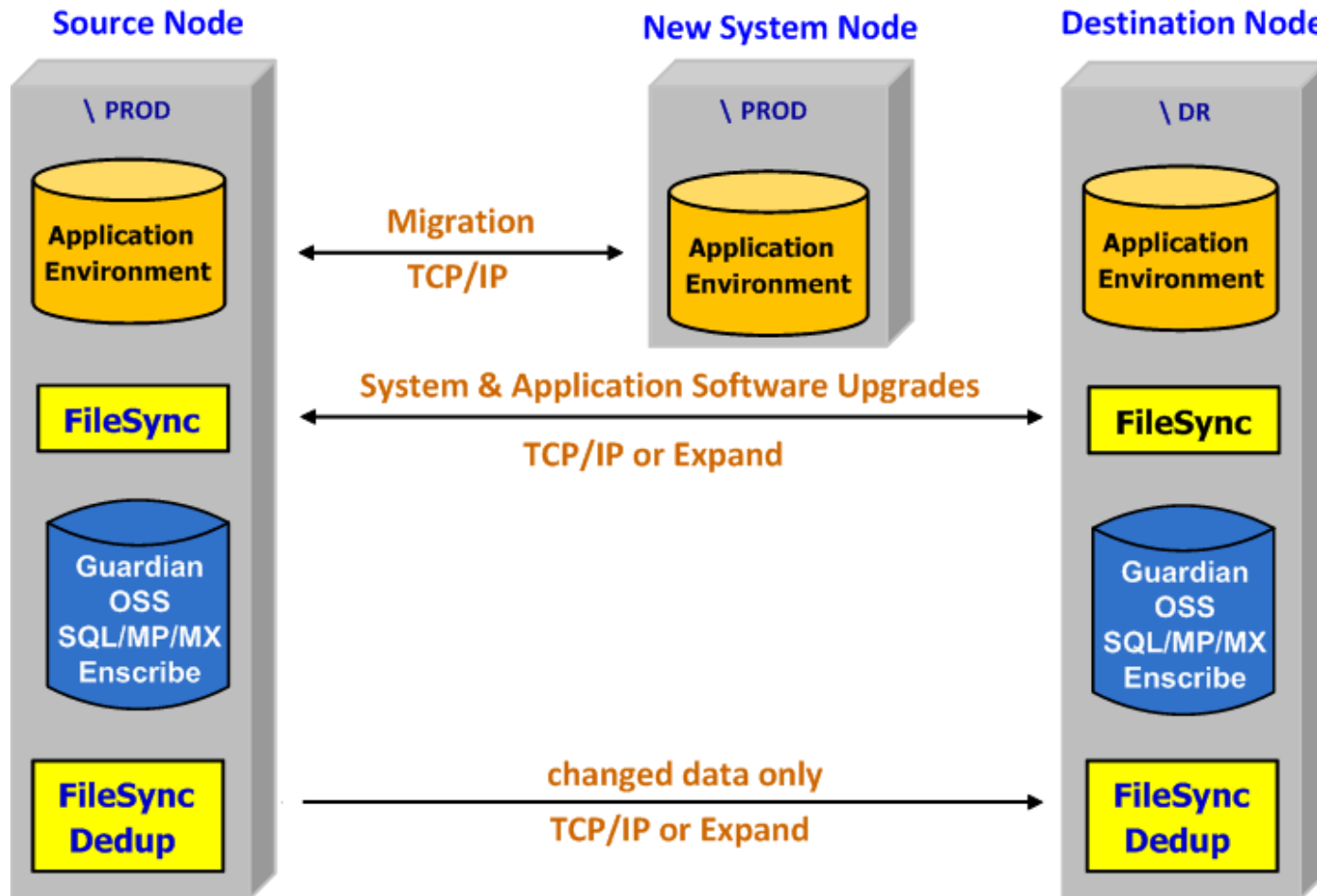
Protects sensitive data at rest with no application changes.

## Stack Monitor

Alerts developers to the impending threat of a stack overflow.

# 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 Data Deduplication

Significantly reduces bandwidth requirements and the size of backups by transmitting only data that has changed within a file or database.

# FileSync

## Features

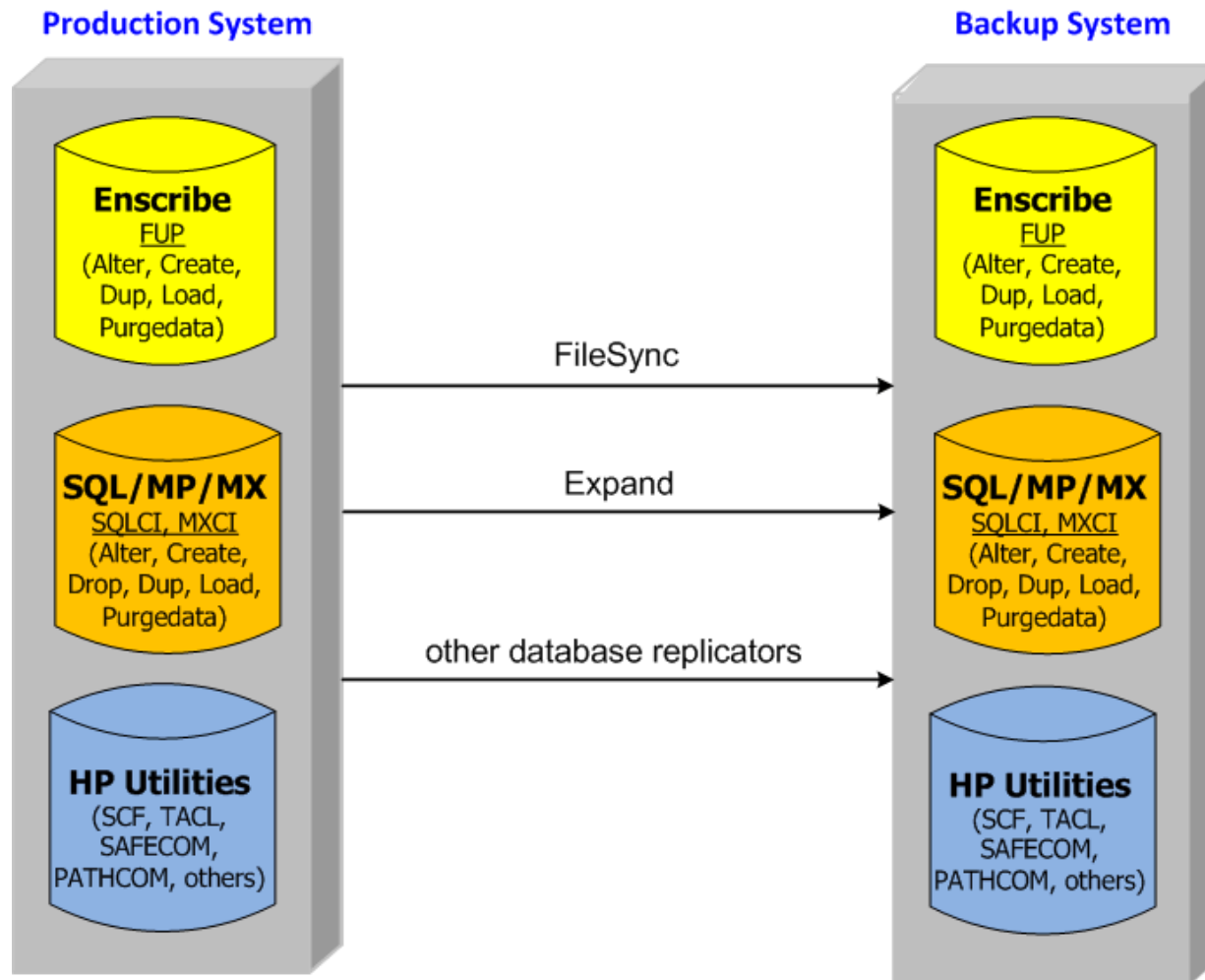
- Supports Expand and TCP/IP.
- Netbatch and FileSync scheduling capability.
- Supports Enscribe and OSS files. Also supports SQL/MP and SQL/MX objects.
- Automatic or scheduled file synchronization between Guardian and OSS.
- Uses TCP/IP to migrate systems. Synchronize files to new system with same 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.

# New! TANDsoft Adds Data Deduplication to FileSync 3.1

## Overview

- Takes place at the system hosting the primary database.
- Only changed data, not entire files, are sent to the backup database.
- Reduces backup sizes, reduces bandwidth requirements.
- Decreases disk loads.
- Increases RPO, reduces RTO.

# 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 utility (FUP, SQLCI, MXCI, SCF, TACL, SAFECOM, PATHCOM, others) operations to the backup system.

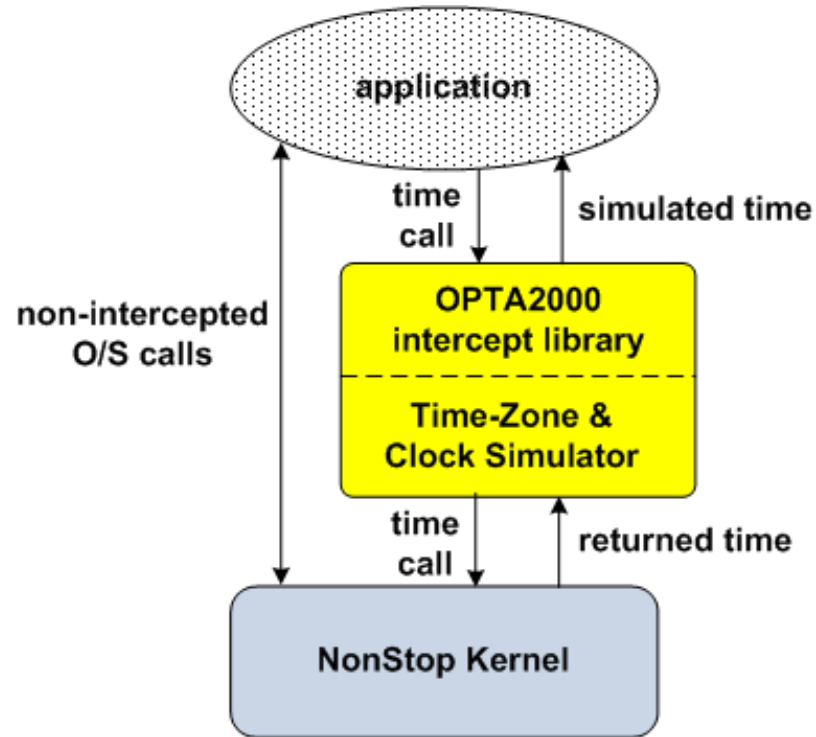
# Command Stream Replicator

## 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 utility (FUP, SQLCI, MXCI, SCF, TACL, SAFECOM, PATHCOM, others) operations to the backup system.
- Increases NonStop database availability.
- Can be used with all NonStop data-replication products.

# 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. Multiple current times. Multiple time zones.*  
***No Problem!***

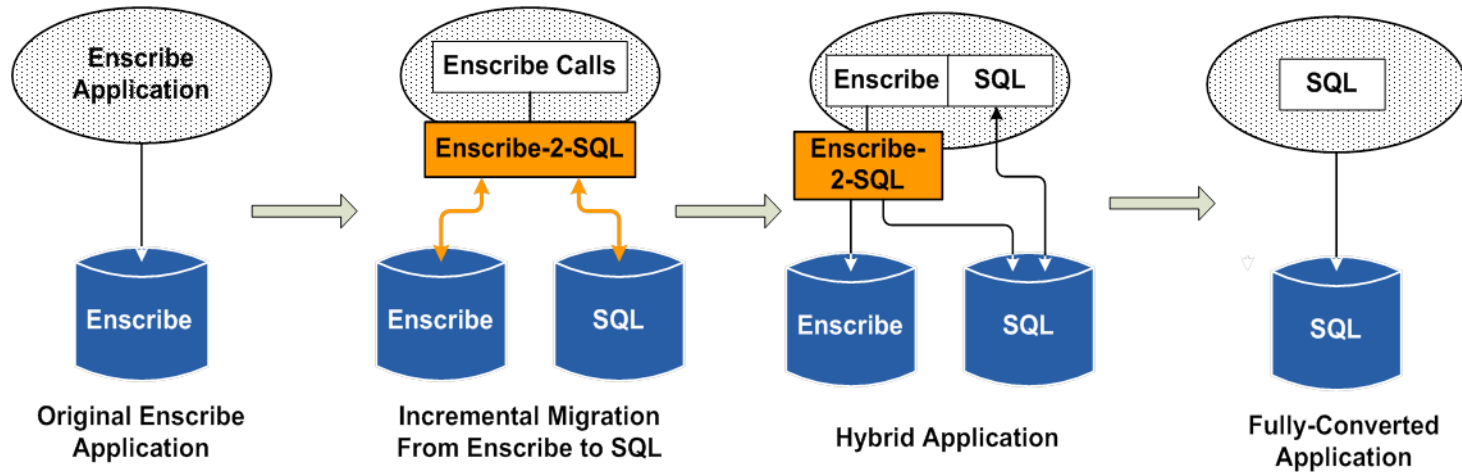
# OPTA2000 Features

## 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.
- Supports SQL/MP and SQL/MX.
- No changes to the Enscribe applications are necessary.
- Full conversion flexibility otherwise available only with manual conversion is retained.
- *E2S-Lite* enables efficient, low-cost Enscribe modifications.

# Enscribe-2-SQL Toolkit

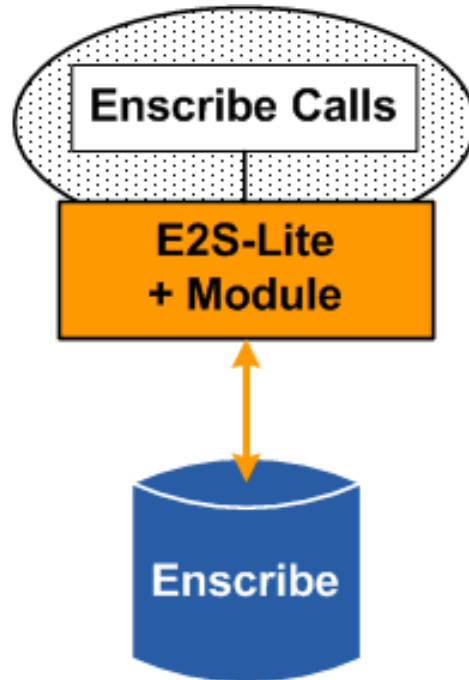
## Features

- 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.



# E2S-Lite

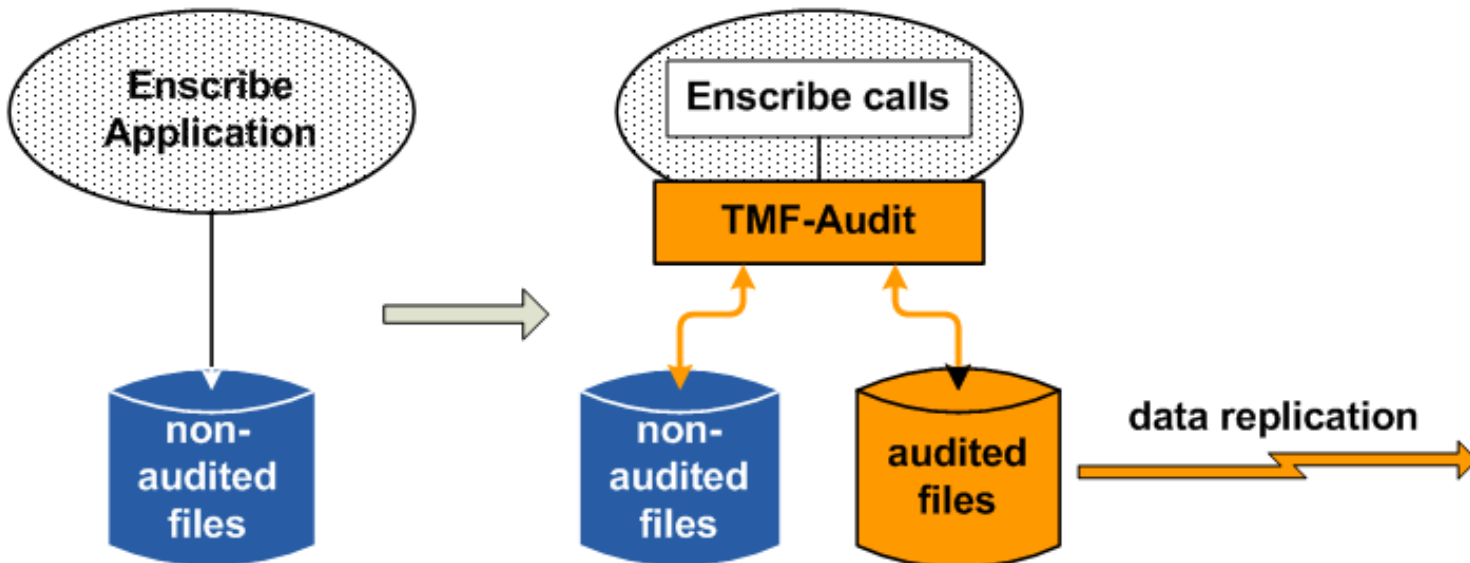
**Enables Efficient, Low-Cost Enscribe Modifications**



**E2S-Lite Enables Efficient,  
Low Cost Enscribe Modifications**

# 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.

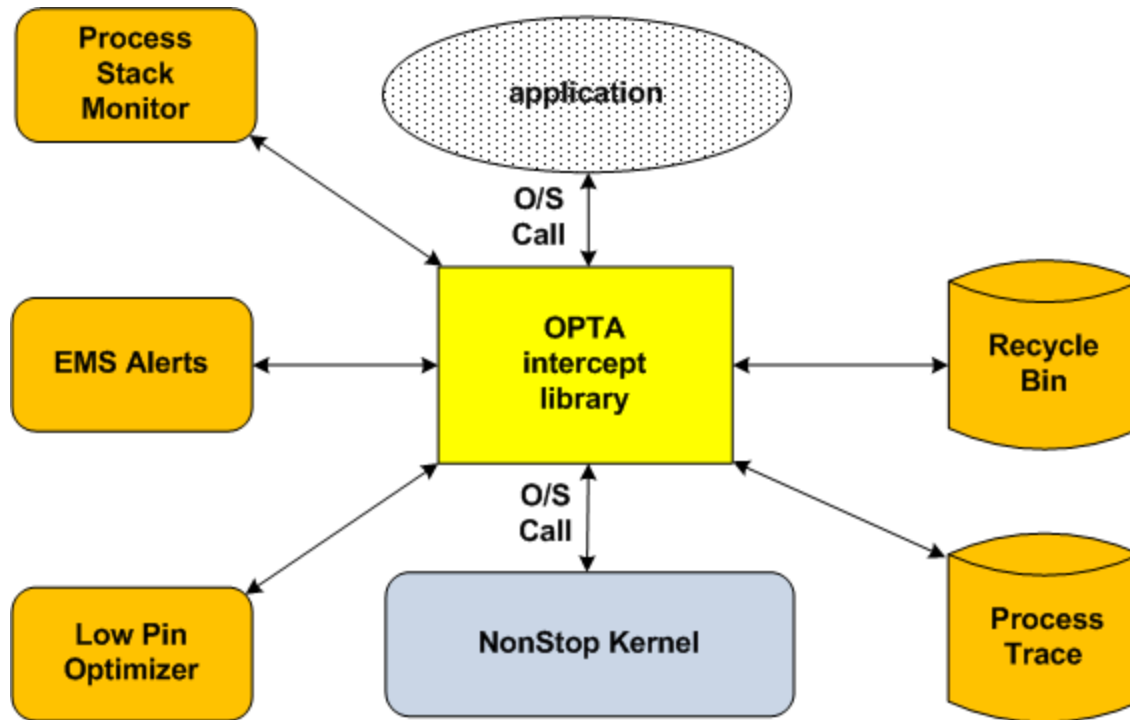
# TMF-Audit Toolkit

## 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.

# OPTA

*Suite of interception and trace utilities for customizing NonStop applications*



# OPTA

## Overview

- Online process tracer and analyzer for intercepting NSK system calls.
- With the OPTA API, custom code can easily extend application capabilities.
- Supports all HP NonStop application types and platforms (TNS, TNS/R, and TNS/E).
- Reduces development, testing, and support costs.
- No application code changes are required.

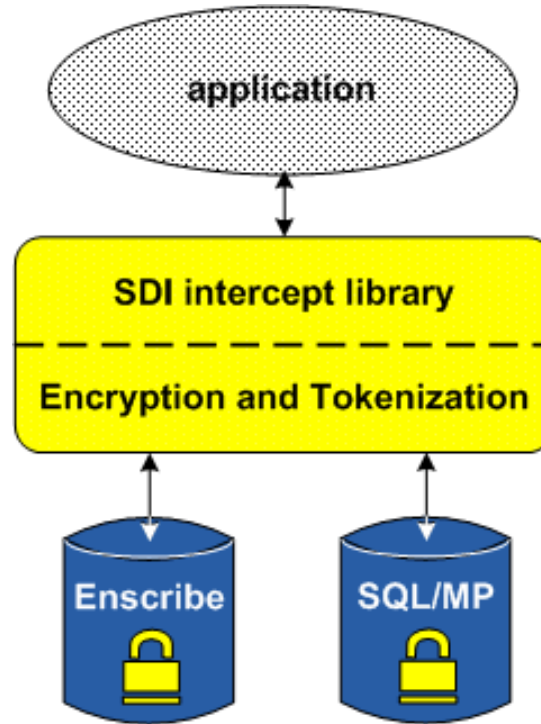
# OPTA

## Features

- ***Process Stack Monitor*** analyzes an application's stack usage for memory shortages within the call stack.
- ***OPTA-Trace Online Process Tracer and Analyzer*** seamlessly intercepts and traces procedure calls made to the NonStop Kernel operating system.
- ***Recycle Bin*** provides fast file retrieval. Purged files are stored in Recycle Bin until you decide to restore them or to delete them permanently.
- ***Low Pin Optimizer*** automatically redirects and balances low-PIN process creation across a server's CPUs to ensure efficient allocation.
- ***EMS Alerts Online Startup and Termination Capture Utility*** traces an application's startup and termination calls via EMS messages.

# Sensitive Data Intercept (SDI)

*Protects sensitive data at rest*



Protects Sensitive Data at Rest



# Sensitive Data Intercept (SDI)

## Features

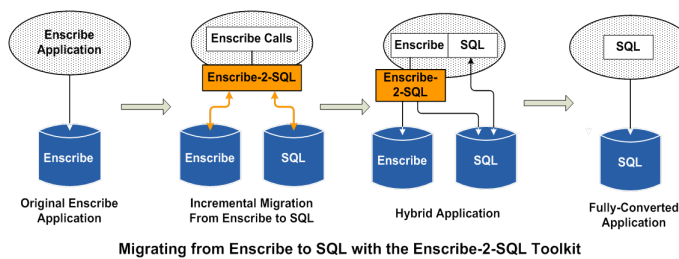
- Protects sensitive data at rest for NonStop applications.
- Intercepts NonStop database access calls, encrypting data written to disk and decrypting data read from disk.
- Combined with the products of NonStop security partners, SDI offers additional encryption and tokenization capabilities for sensitive data.
- Supports NonStop Enscribe and SQL/MP, native and non-native applications.
- No application changes are required.
- Helps organizations to remain compliant with industry regulations such as PCI-DSS, HIPAA, SOX.

# Thanks for Watching

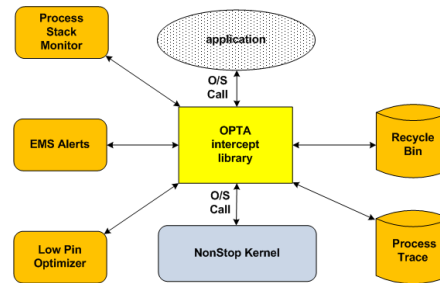
## Any Questions?

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

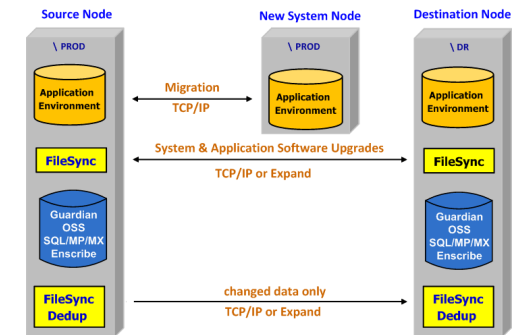
### Enscribe-2-SQL Toolkit



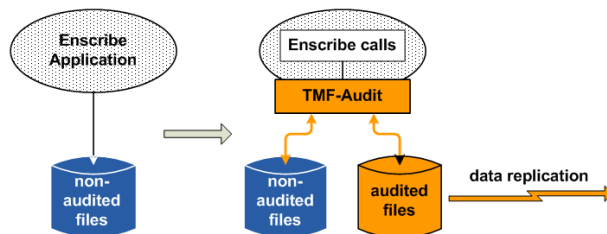
### OPTA



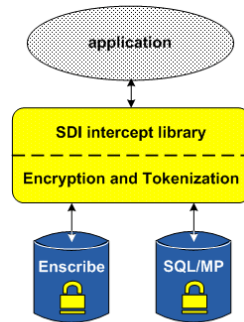
### FileSync



### TMF-Audit Toolkit

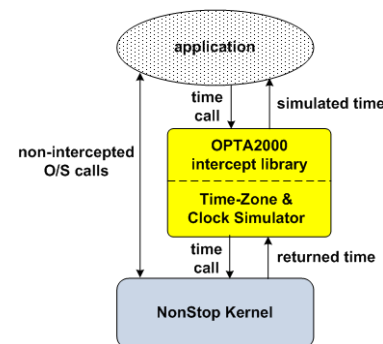


### SDI



Protects Sensitive Data at Rest

### OPTA2000



### Command Stream Replicator

