



Virtualize and Synchronize Your NonStop Systems with OPTA2000 and FileSync

OPTA2000

virtual time-zone and clock simulator

FileSync

replication & synchronization software

TMF-Audit Toolkit

easily converts non-audited TMF files to audited TMF files

Enscribe-2-SQL Toolkit

flexible, affordable alternative for Enscribe to SQL conversion

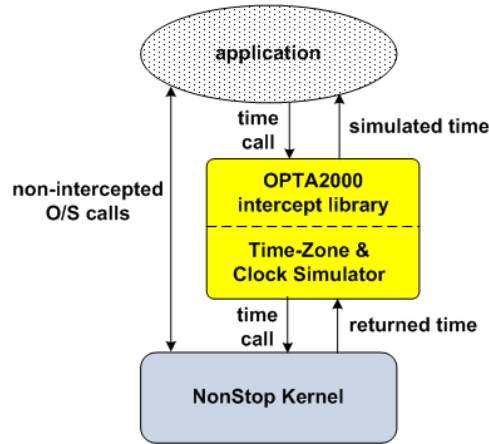
Command Stream Replicator

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

Today's Agenda

OPTA2000 Virtual Time-Zone and Clock Simulator

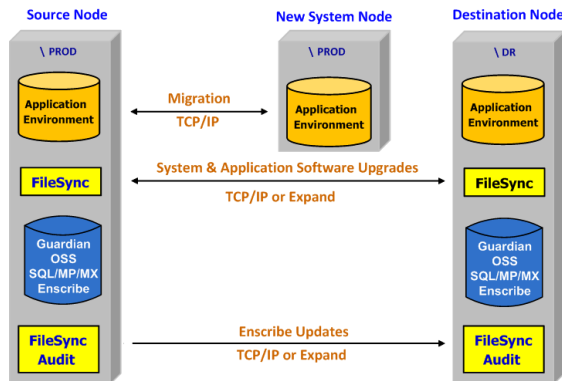
Multiple applications operating in a consolidated environment or on a single server can each have their own virtual clock and can run in their respective time zones.



FileSync Replication & Synchronization Software

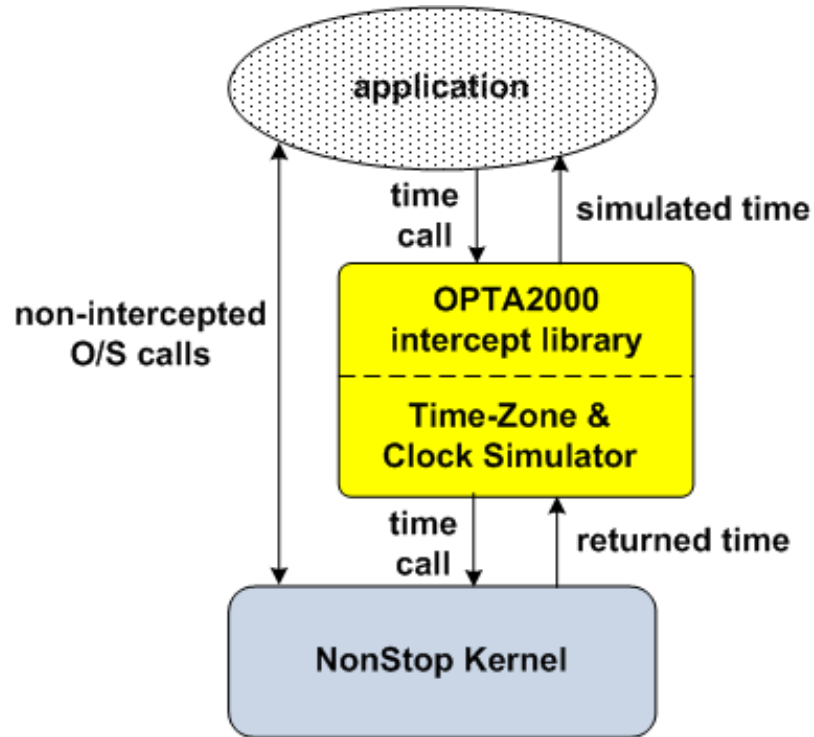
Synchronizes applications and files between HP NonStop servers.

FileSync-Audit replicates only Enscribe file modifications.



OPTA2000

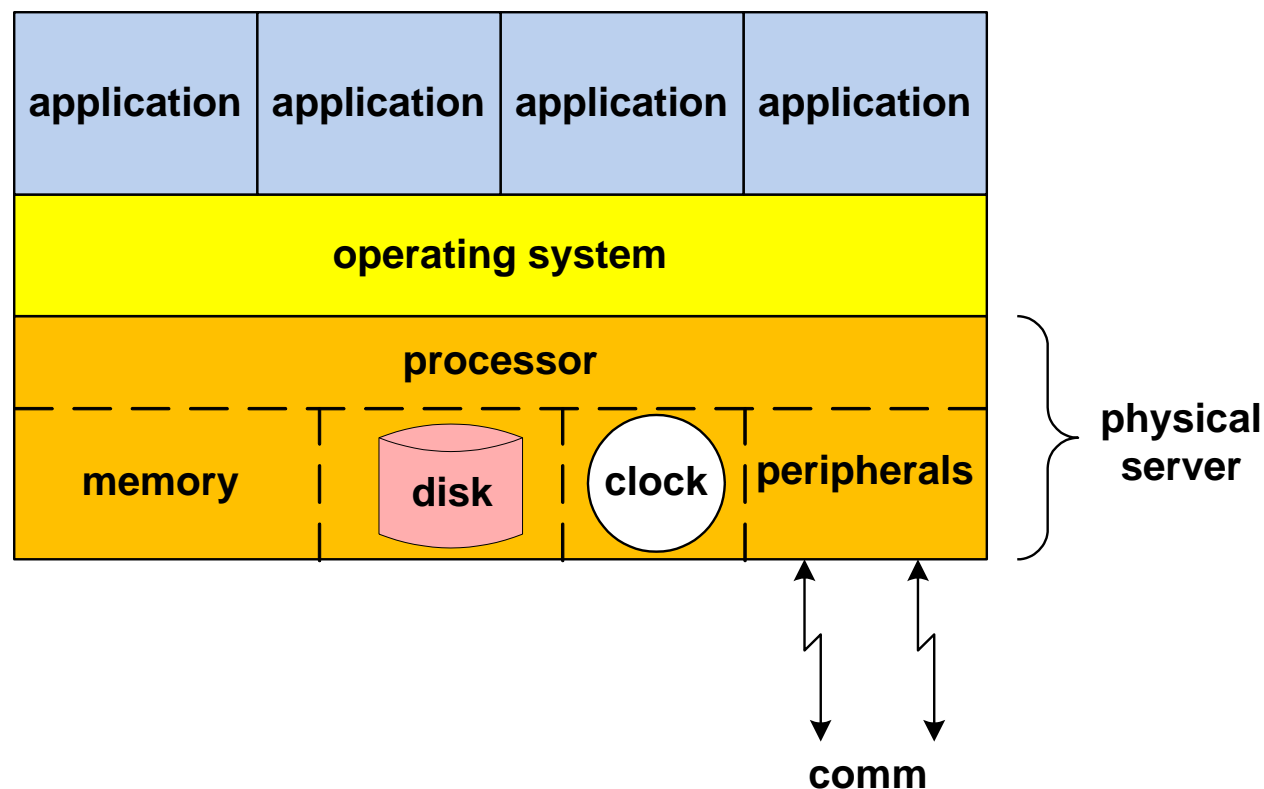
Virtual Time-Zone and Clock Simulator



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

Companies planning to consolidate have an interesting challenge

Typically, all applications run off the system clock



One system clock. One current time. One time zone.

Here's The Problem

If you want to consolidate....

Time-sensitive applications cannot be constrained by...

...one system clock. One current time. One time zone.

How do you support the hosting of multiple applications with different date/time requirements on the same platform...

...without constantly resetting the system clock?

How do you accommodate applications that need to run in user time, not system time?

OPTA2000 Virtual Time-Zone and Clock Simulator is the Solution

Time-Zone Simulation

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

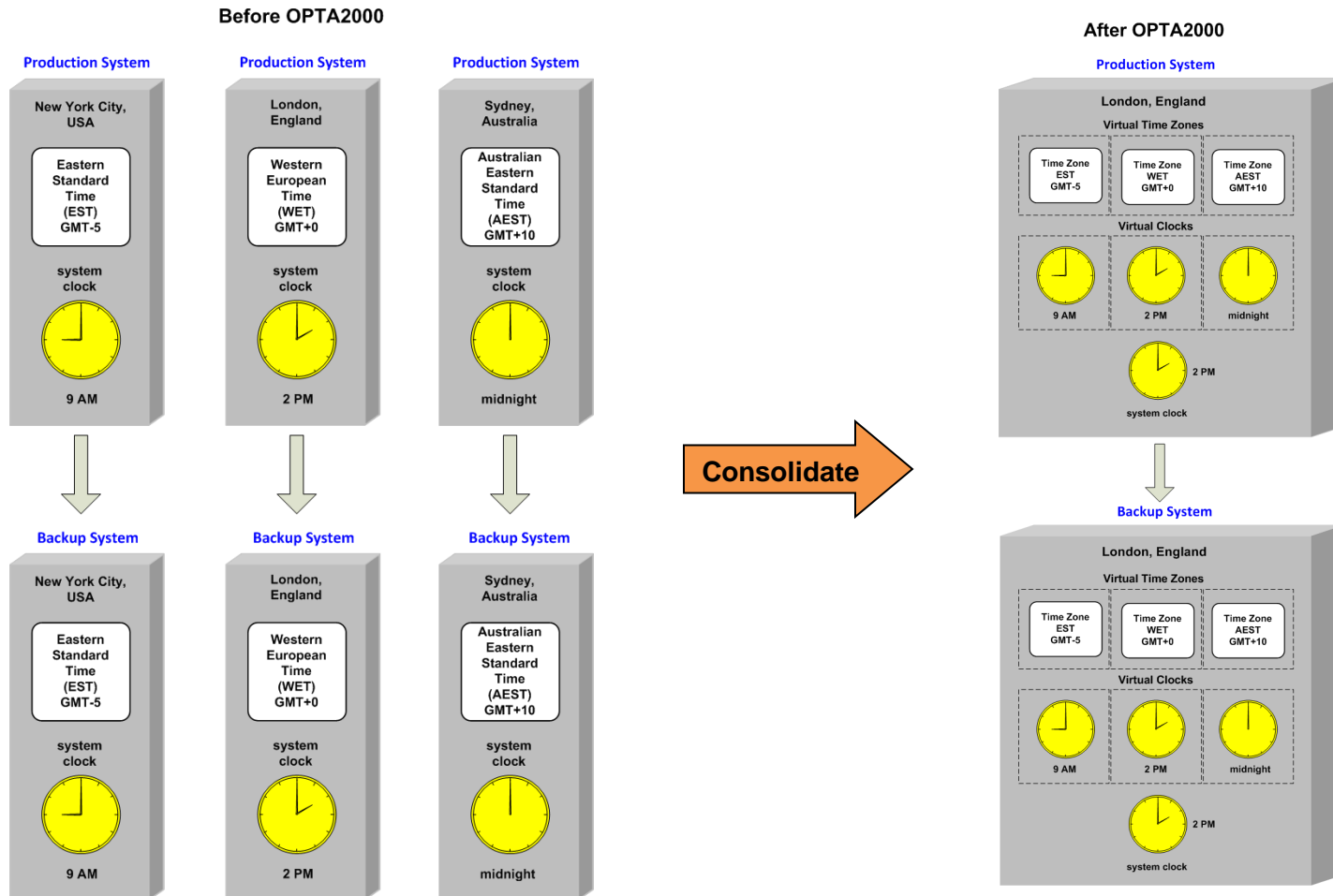
Clock Simulation

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

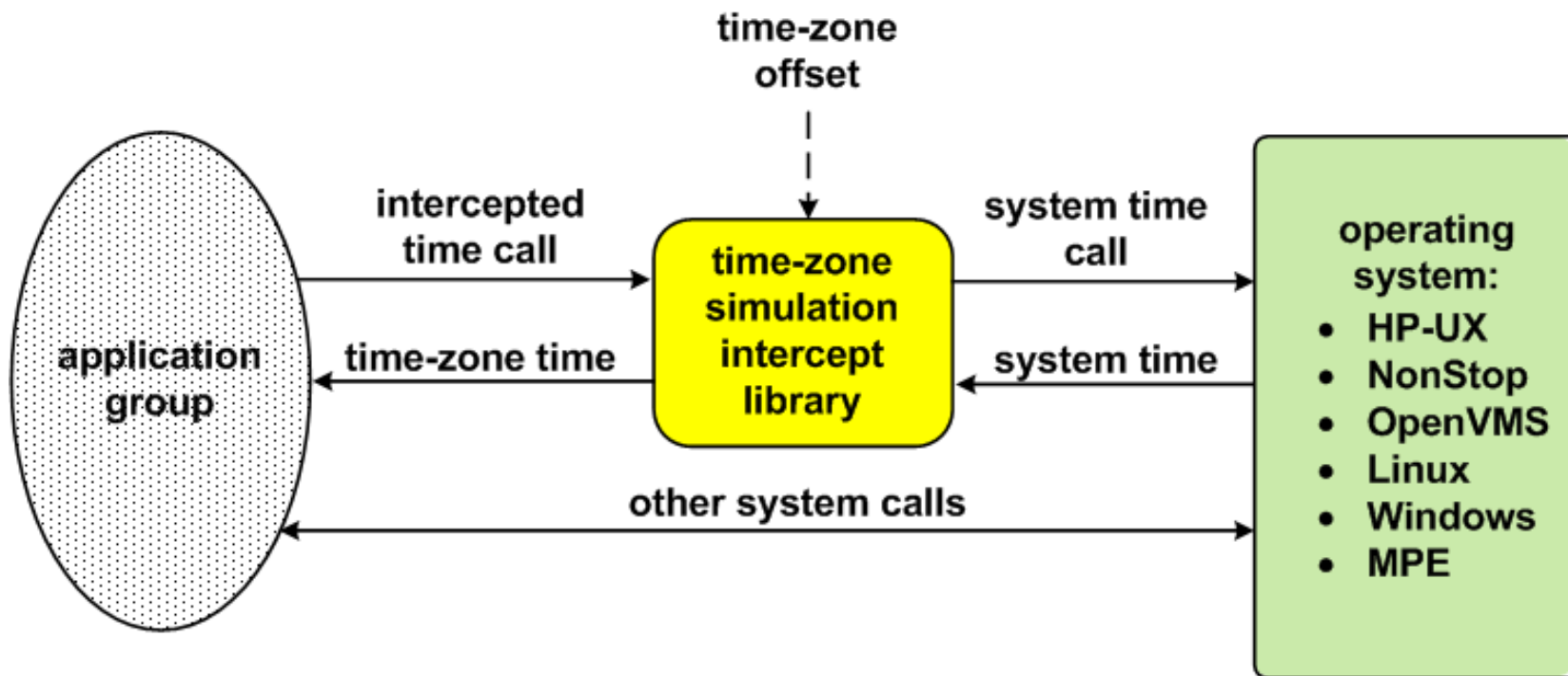
*One system clock. Multiple current times. Multiple time zones.
No Problem!*

OPTA2000

A single system can host thousands of time-sensitive applications

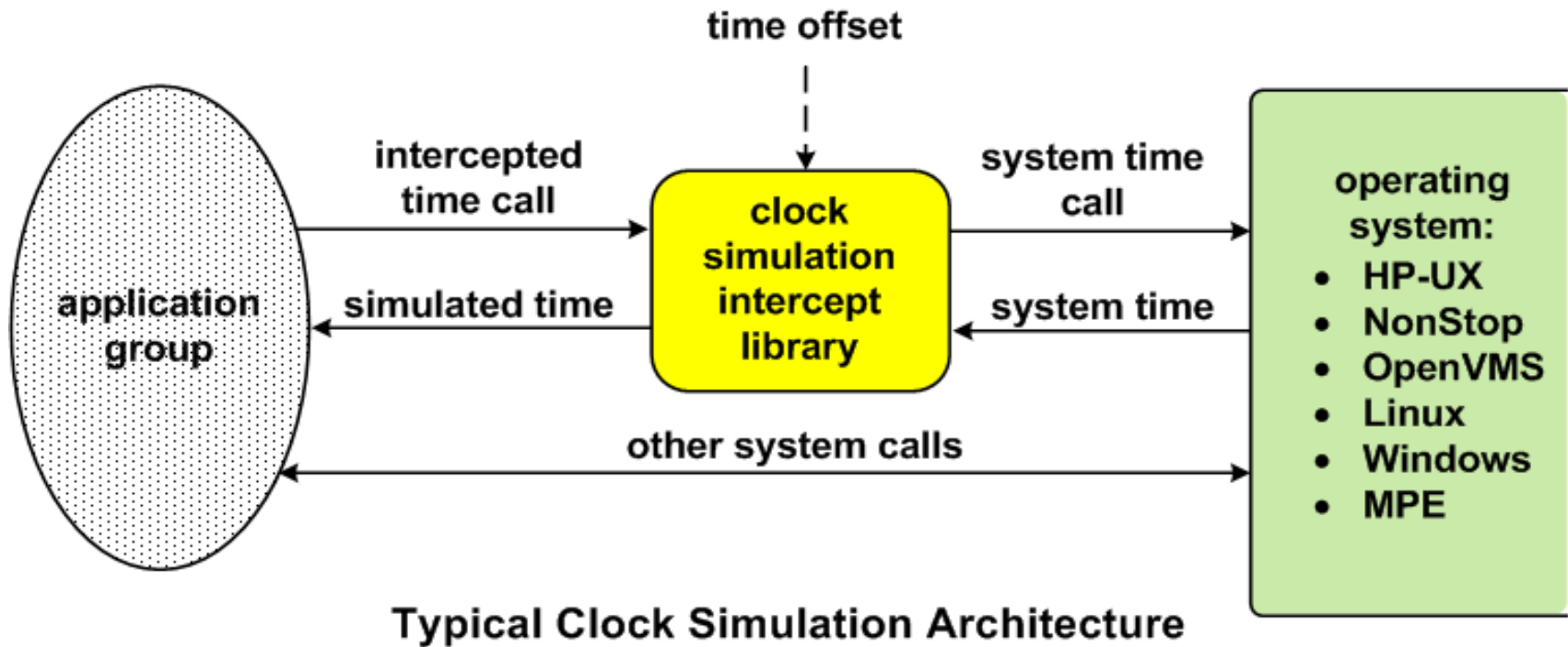


How Does OPTA2000's Time-Zone Simulation Work?



Typical Time-Zone Simulation Architecture

OPTA2000's Clock Simulation Architecture is like the Time-Zone Simulation Architecture



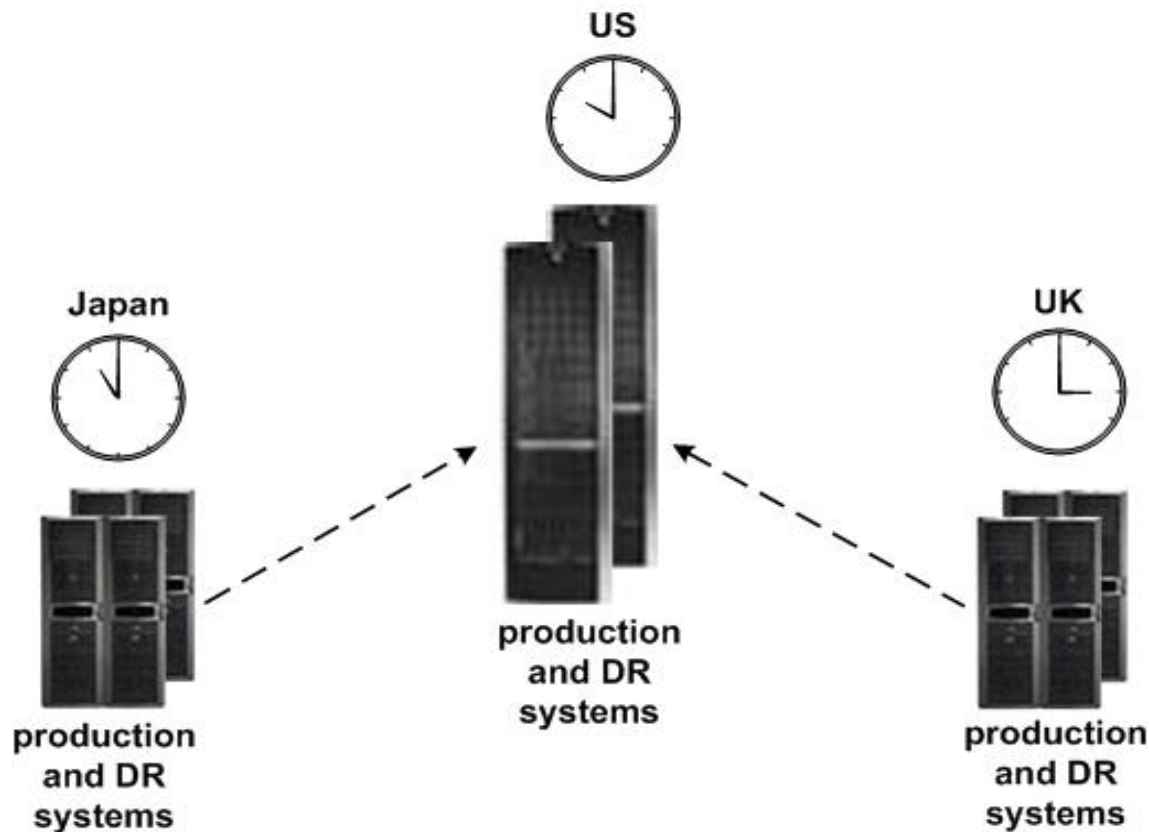
OPTA2000 Features

**Supports All NonStop Application Types (TNS, TNS/R, TNS/E),
Guardian, OSS, SQL/MP/MX**

- **No changes necessary to 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) transition tables.**
- **Does not interfere with other applications on the same system.**
- **Ideal for customers consolidating servers onto NonStop Integrity or Blades.**

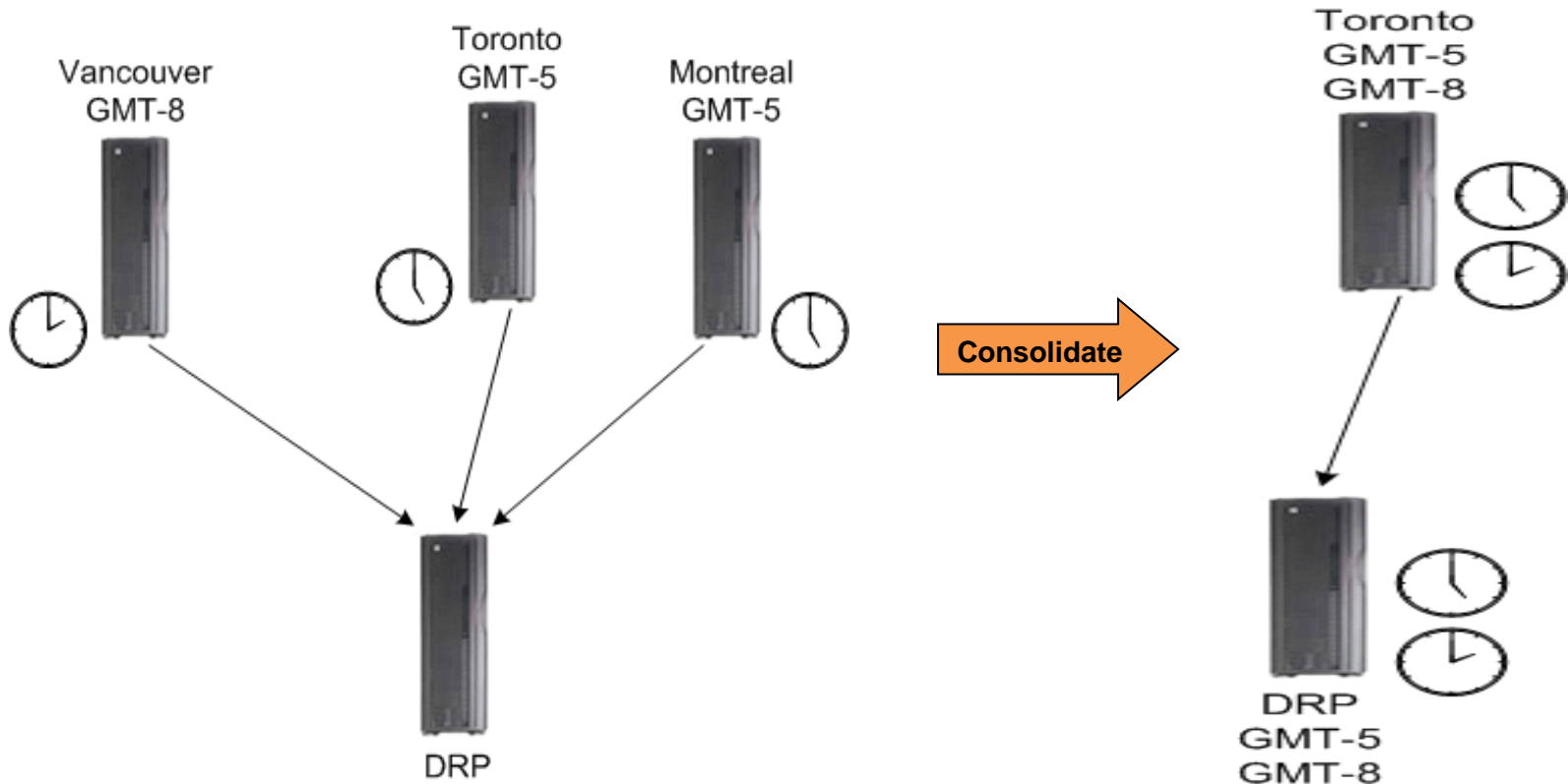
OPTA2000 Virtual Time-Zone Simulation

A Global Manufacturer Uses OPTA2000 to Consolidate Its Worldwide Production and Disaster-Recovery Systems into one U.S. Data Center that has NB54000c BladeSystems



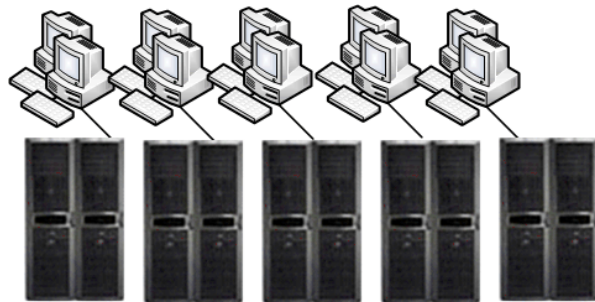
OPTA2000 Virtual Time-Zone Simulation

A Large Financial Institution Uses OPTA2000 to Consolidate 3 PROD Sites and 2 Time Zones into 1 PROD Site with 2 Time Zones

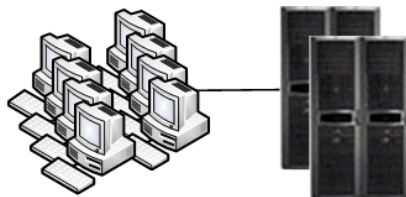


OPTA2000 Virtual Clock Simulation

What Time Is It In Your Test Bed?



5 UAT test groups
5 NonStop S-Series servers

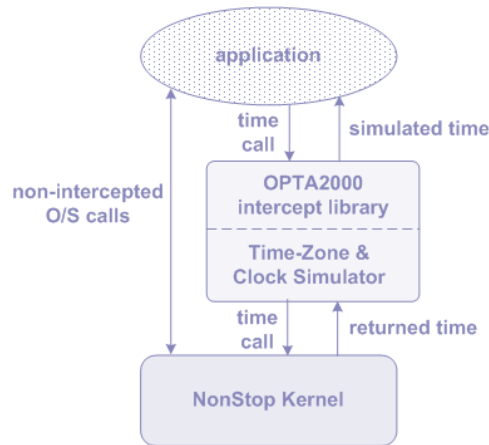


5 UAT test groups
2 Integrity NonStop servers

A major enterprise uses OPTA2000 to consolidate five test groups, each with its own NonStop S-Series server, into two groups sharing two Integrity NonStop servers.

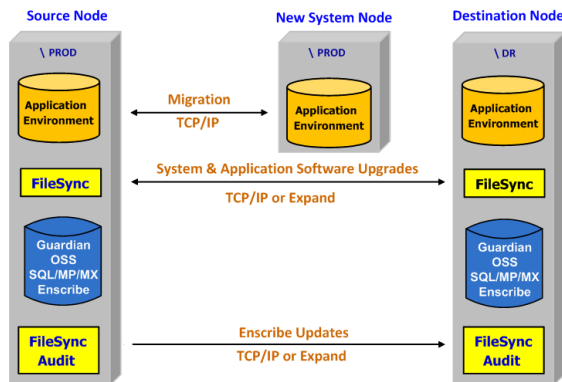
One system clock. Multiple current times. No problem!

Today's Agenda Revisited



OPTA2000 Virtual Time-Zone and Clock Simulator

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



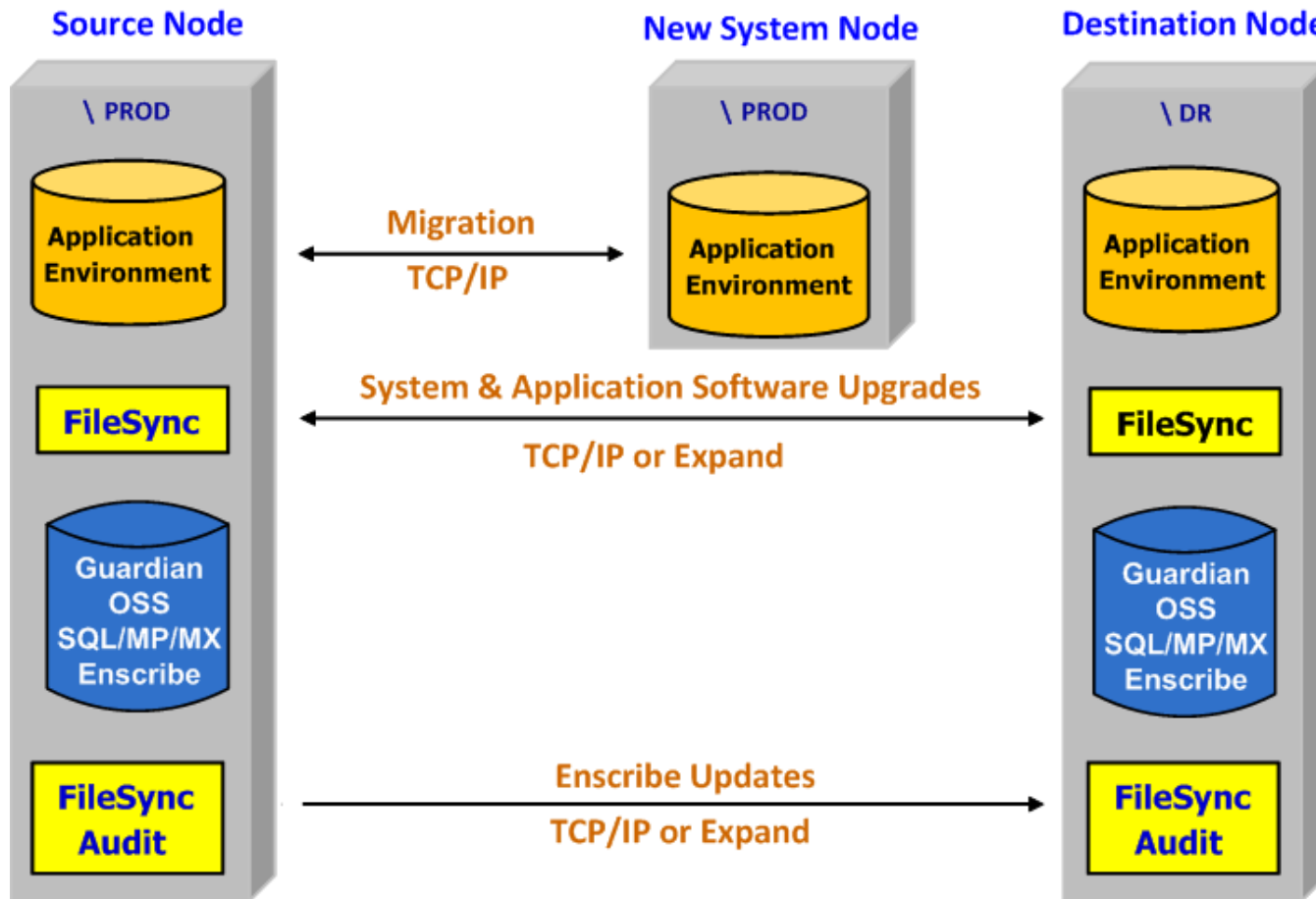
FileSync Replication & Synchronization Software

Synchronizes applications and files between HP NonStop servers.

FileSync-Audit replicates only Enscribe file modifications.

FileSync

Replication & Synchronization Software



FileSync

Replication & Synchronization Software

FileSync

Automatically monitors, replicates and synchronizes whole files and application environments. Use for disaster recovery, migrations, upgrades, and backups. Supports all file types.

FileSync-Audit

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

FileSync

Replication & Synchronization Software

Features

- Supports all audited and non-audited file types.
 - ▶ Guardian, OSS, Enscribe, Edit, SQL/MP, SQL/MX
- File selection by wildcarding & filtering (supports qualified expressions and SQL/MX filters).
- Incorporates fault tolerance, parallel processing, load balancing, and scalability.
- Automatic or scheduled file synchronization with NetBatch.
- Supports synchronization over Expand or TCP/IP.

FileSync

Replication & Synchronization Software

Features

- **System migration – uses TCP/IP to synchronize files with new system, same node name.**
- **Secure – adheres to existing Guardian and OSS policies.**
- **Purge – remove excess target files.**
- **Reporting – create list of file synchronization state.**
- **Triggers – invoke TACL or OSS script, Before or After files are synchronized.**
- **Complements all NonStop data-replication products.**

FileSync

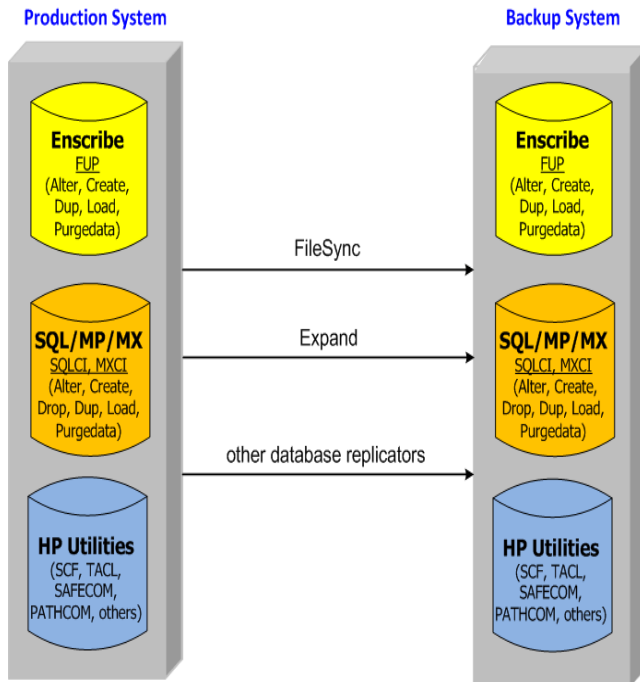
Replication & Synchronization Software

An East-Coast U.S. Health Network Uses FileSync to Replicate Thousands of Non-Audited Guardian Files in a Matter of Minutes and with Reliable Accuracy.

- **Two HP Integrity NonStop NB50000 Blade Systems, one PROD and one DR/QA, are located in data centers set miles apart.**
- **Three different NetBatch jobs synchronize files on predetermined schedules. FileSync is used for replication and synchronization on all three jobs.**
- **In one recent example, FileSync required only minutes to review 101,307 production files, to detect 384 files with changes, and to replicate those files to the DR system.**
- **FileSync's secret weapon? Qualified Expressions, a powerful language that can define thousands of files with a single command.**

FileSync & Command Stream Replicator Replicate What Other Replicators Don't!

Command Stream Replicator



- 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.

TANDsoft Products

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.

Command Stream Replicator

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

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.

NonStop Product Future From TANDsoft

Group Policy Processing

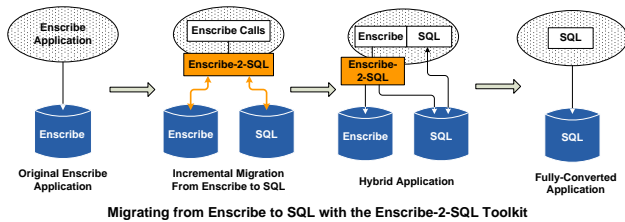
- **Group Policy Processing is used to...**
 - ▶ Define and Control a processing environment for a common set of NonStop Guardian and OSS processes.
- **Group Policy features include...**
 - ▶ Enforce process creation attributes.
 - ❖ Specific CPUs, pri, group-process-names (\$GPnnn), defines
- **Monitor Process Group (display details for entire group).**
- **Operate within a virtual environment.**
 - ▶ Virtual time zone, virtual clock, virtual CPUs
- **No source code changes required.**

Thanks for Attending

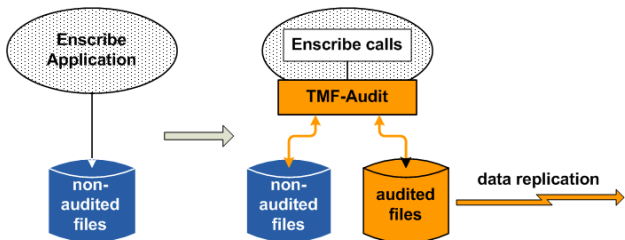
Any Questions?

Ask them now, or contact me later at jack.digiacomo@tandsoft.com

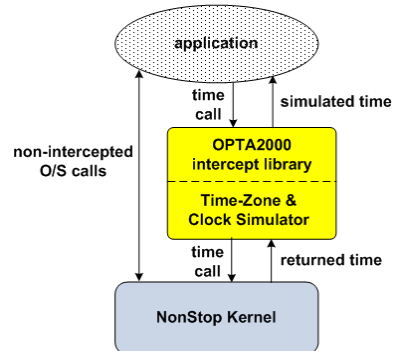
Enscribe-2-SQL Toolkit



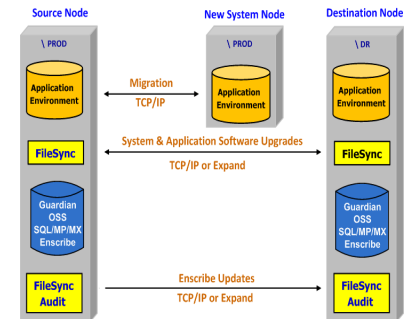
TMF-Audit Toolkit



OPTA2000



FileSync



Command Stream Replicator

