

# TANDsoft

Why customers are using  
TANDsoft

Dieter Orlowski



## Who is using TANDsoft products and Why ?

A large European bank, was running a complex environment that had grown and evolved considerably over the course of decades.

“To help this client enhance its file comparison and repair capabilities, we tested **FileSync** and **FS Compare and Repair**.

Both solutions were easy to install and configure.

Most importantly, compared to alternatives that employ record-by-record comparisons, TANDsoft’s block-level approach was ten times faster.”



## Who is using TANDsoft products and Why ?

The largest provider of electronic transactions  
in Latin America  
uses TANDsoft to  
automatically synchronize and  
compare thousands of files between NonStop systems.



## Who is using TANDsoft products and Why ?

A world leading technology company  
uses TANDsoft  
to compare very large files and tables,  
exceeding 200 partitions and 1 TB.



## Who is using TANDsoft products and Why ?

An American multinational investment bank and financial services holding company uses TANDSoft to compare and repair SQL/MX tables.



## What is Block Technology ?

- TANDsoft 'Block technology' incorporates Blazing fast reading and Block hashing of Enscribe, OSS, SQL/MP and SQL/MX data blocks.
- Block hash compare allows for very quick identification of data block differences between files.
- This core Block technology is used in all of the TANDsoft FS family of products.
  - FS Compare and Repair
  - FS Loader
  - FS Backup and Restore
  - FileSync



## FS Compare and Repair Highlights

### Blazing Fast Compare

- 10,000,000 records in 13 seconds.. 1 TB multi-partitioned file in 10 minutes

### Supports all NonStop databases

- OSS, Enscribe, SQL/MP and SQL/MX

### Accurately detects and displays data differences in Live Databases.

- Ignores False positives

### The NonStop DBA “must have“ solution for OSS, Enscribe, SQL/MP and SQL/MX.

- Compare and Repair individual partitions or entire files.
- Parallel Re-loading of Partitions or Indices ( only changed blocks, not entire file )



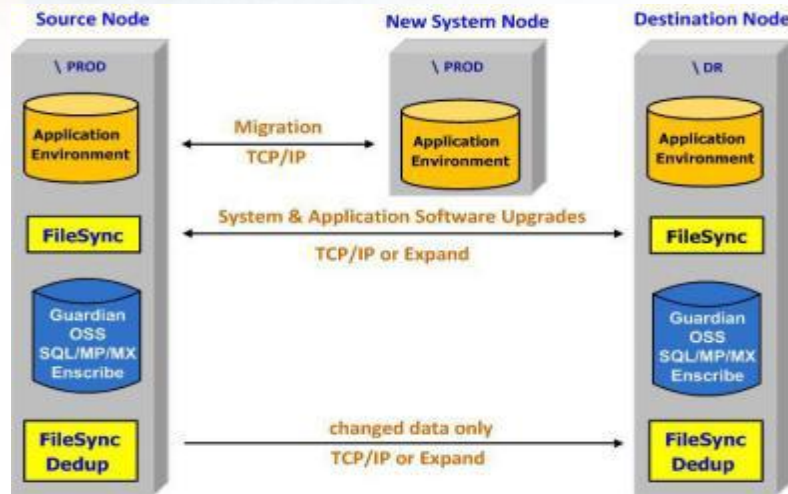
## FS Compare and Repair features

- Reads and processes 56K Blocks, Nowait I/O
- Efficient false positive handling
- Utilizing renown block level Hash compare, block level analyses, and parallel processing
- Supports Enscribe, SQL/MP, SQL/MX and OSS files
- Compares online and offline databases
- Provides partition-, index-, block-, record-, and column-level statistics
- Requires zero application modification
- Generates reports for auditing and internal verification

- Incorporates HPE NonStop server fundamentals:
- Fault-Tolerance, Parallel Processing
- File Selection by Wildcarding & Qualified Expressions
- Works with all NonStop data replication solutions
- Certified on all HPE NonStop servers
- Software support – very high customer satisfaction, immediate and knowledgeable response

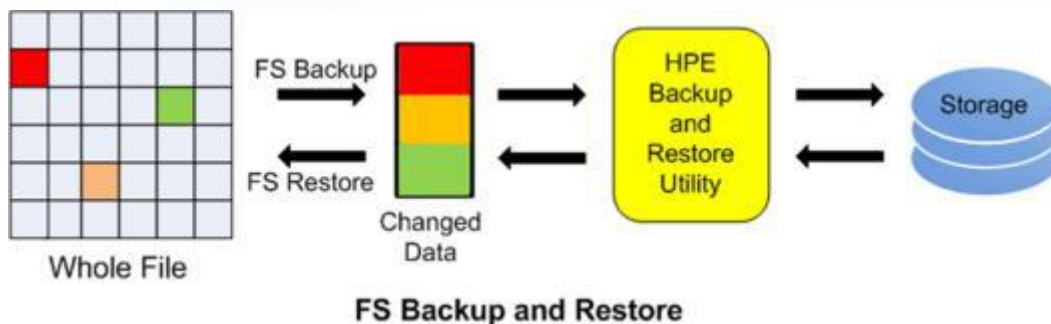
# FileSync

Replicates and synchronizes file modifications between NonStop Servers



# FS Backup and Restore

Backup times are reduced from Hours to Minutes





## FS Loader

- FS Loader supports Blazing fast loading of Enscribe, OSS, SQL/MP and SQL/MX partitioned databases.
- Reads and Loads multiple partitions and Indices in parallel.
- Uses 56KB, nowait I-O for reading and writing.
- Supports Like-to-Like NonStop databases.

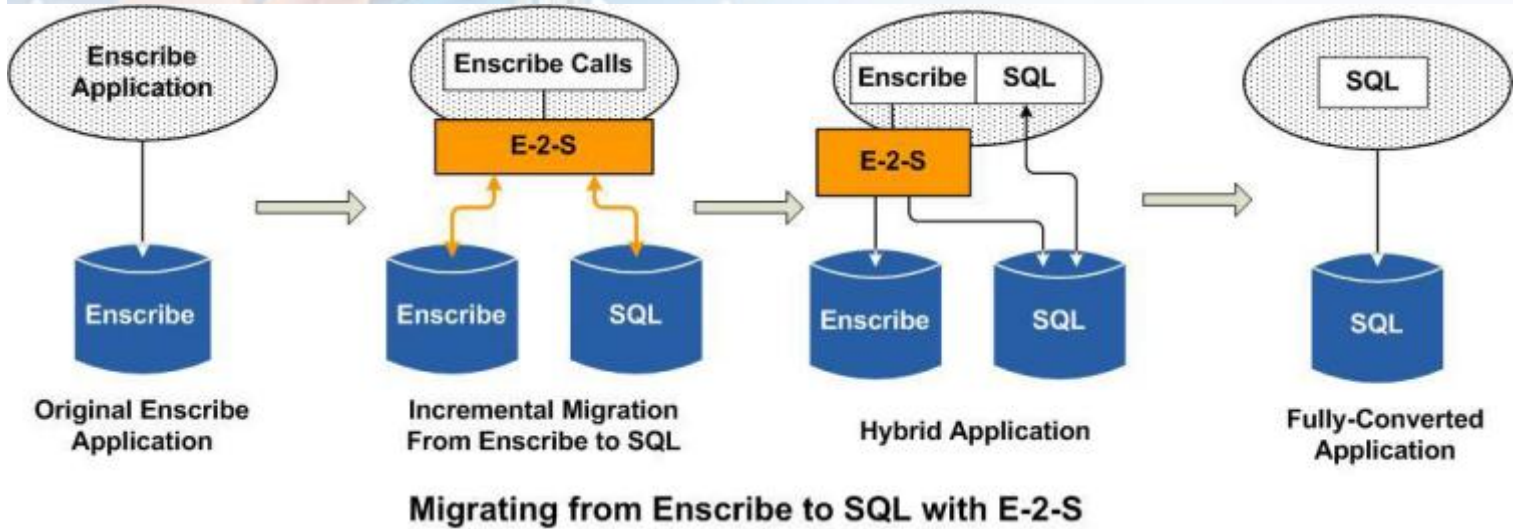


## Why E2S ?

- E2S 4.0 is the next generation of the ENSCRIBE-to-SQL Toolkit solution
  - ENSCRIBE to native SQL/MX (or SQL/MP) migration
  - Transparent Intercept - No code changes required
  - Automatic Data Transformations (e.g. JULIANTIMESTAMP from/to DATETIME(6))
  - Uses Static compiled SQL/MX, not Dynamic SQL for much better performance.
  - E2S APIs exposed for customer use
  - Supports Guardian, OSS, TNS & Native ENSCRIBE applications (C, C++, Cobol, Tal & pTal)

E2S is the most cost efficient and secure solution to modernize your application

## Lifecycle of E2S



JDG2

## Thank You for Attending

**Additional information or questions ?**

**TANDsoft - [www.TANDsoft.com](http://www.TANDsoft.com)**

Jack Di Giacomo (+1 514-695-2234)  
[jack.digiacom@TANDsoft.com](mailto:jack.digiacom@TANDsoft.com)

Dieter Orłowski (+1 303-263-4381)  
[dieter.orłowski@TANDsoft.com](mailto:dieter.orłowski@TANDsoft.com)



