

How does DPSync work?

When ADABAS processes transactions from application programs, the updates are applied to the database, and Before and After Images of the records are written to a protection log (PLOG). DPSync acquires the PLOG data in real time as the images are written. It then transmits the data in real time to local or remote locations. By using PLOG data already being written by ADABAS through its normal housekeeping, DPSync does not affect the performance of the production ADABAS system. Transaction information is captured and propagated as it occurs, without waiting for a PLOG switch and copy, keeping critical information current.

DPSync offers high-speed processing of ADABAS data with minimal performance overhead. By using static ADABAS data sources for ETL (materialization/initial loading) and CDC (propagation/ongoing synchronization), instead of making direct calls to ADABAS, DPSync provides optimal system performance and reduces the impact on other critical production applications. And with DPSync, only committed ADABAS changes are processed. Other solutions relying on direct interaction with ADABAS may compromise ADABAS application performance and stability through “extended holding” of updates during replication, and may compromise data integrity by utilizing ADABAS “dirty read” processing when extracting data for initial loading.

DPSync provides extensive analysis, modeling and mapping capabilities using an intuitive graphical user interface. Options are supplied to auto-generate complete RDBMS schemata from existing ADABAS files, or alternatively to allow easy mapping of ADABAS fields to an already-existing data warehouse or ERP schema. Rich transformational capabilities are provided to support complex application requirements.

DPSync can be configured for a single or distributed system environment. Capture, queueing, transformation, and RDBMS-updating components can exist within the same MVS-OS/390-z/OS image or in separate systems—even those in different geographic locations. DPSync is adaptable to your environment.

Reliability of the data is ensured

DPSync's mature and robust spill and gap recovery processing provides reliability, scalability, and fault tolerance. If a PLOG transmission is interrupted or the destination database cannot process changes for any reason, updates are automatically buffered first in memory and then in disk spill files. When communication is restored to normal, DPSync automatically transmits the spill file data in parallel with acquiring and transmitting newly-generated transactions from ADABAS. During remote site outages or software/hardware failures, DPSync automatically retrieves and properly sequences any lost data (gaps) from ADABAS PLOG archives, once again in parallel with acquisition of new updates.

DPSync's highly-parallelized, guaranteed-recovery architecture ensures arrival of the transformed data at the target, while ensuring the integrity of the complete transaction -- only committed data, correctly sequenced, and without duplication.

After transforming ADABAS transactions into the corresponding native SQL statements, DPSync's RSU component applies the statements to the target tables, ensuring successful execution and responding automatically to exception conditions.

The DPSync Console allows operators to monitor status and throughput statistics, issue commands to DPSync components, and define scripts for response to exceptions.

Additional Capabilities

DPSync's RRDF component, which as a standalone product has led the market since the late 1980s, also provides comprehensive, proven, and multi-DBMS functionality for data replication and disaster recovery. RRDF addresses both recovery time and recovery point requirements. Using RRDF, a database can be recovered right up to the point of a disaster. RRDF uses real-time log capture and sophisticated buffering and queuing technology to achieve remote site recovery and homogeneous replication objectives without affecting production system performance and availability. In addition to ADABAS, RRDF supports many other mainframe data sources, including DB2, IMS, IDMS and CICS/VSAM.

DPSync Summary

With the DPSync's automated real-time ADABAS data transfer, you will benefit from:

- a consistent, proven, and mature framework for transferring ADABAS data to RDBMSs
- trust that the data is transferred, correctly and completely, with no loss of data--ever
- no need to write and maintain programs to transfer or transform data
- ability to easily map ADABAS files and fields to independent, highly-complex RDBMS schemata
- ease of incorporating additional ADABAS files and related RDBMS tables into the mix
- minimal impact on the production ADABAS system
- minimized CPU consumption
- overall cost savings
- time-proven product reliability, support, and professional services from Treehouse Software

System Requirements

DPSync operates under Z/OS.

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