SymmetricDS

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Enterprise Replication and Change Data Capture

Overview

SymmetricDS is the leading solution for data replication, CDC, and transformation across databases and file systems. It scales to thousands of systems with near real-time sync, and offers flexible configuration, scripting, and APIs for complex data integration needs.

Key Features

Database Replication

- Trigger-based change data capture system replicates in near real time.
- Log based and Time based change data capture.
- Validation of data integrity through compare and repair.
- Transaction awareness groups row changes to be committed together.
- Filtering and subsetting of data.
- Transform columns and tables to bridge different applications.
- Conflict detection and auto resolution.

Data Load & Migration

- Live data loads with no user downtime.
- Bulk loaders for enhanced performance.
- Multi-threaded extraction and loaders for increased speeds.

File Replication

- Support for most major file systems and operating systems.
- Configure base directories and whether to include sub-directories.
- Filter which files to include and exclude from synchronization.
- Custom scripts to run during specific synchronization events.

Configuration

- One-way or bi-directional, multi-master synchronization.
- Pull or push delivery controls which side creates the connection.
- Schedule or run continuously for near real time synchronization.
- Organize groups of nodes into tiers that sync with each other.
- Extendable for all other custom business use cases.

Network & Security

- Efficient data protocol for low-bandwidth operation.
- Encryption of data stream and data at rest for secure communication.
- Supports: roles, privileges, two factor authentication, single sign on

Deployment

- Deploy nodes across local or wide area networks.
- Deploy to cloud, on-premise, Docker, or Kubernetes.

Administration

- Web management console for easy setup and support.
- Monitor and notifications for all nodes from a central location.
- Extend and customize through scripting and APIs.

Business Benefits

Move data to where it's needed, when you need it. Drive real-time insights for better business decisions.

Consolidate data seamlessly with one mechanism. Distribute, back up, or filter data across systems to protect sensitive info and optimize bandwidth.

Multiple Platforms

SymmetricDS works with most major database systems.

Change Data Capture

• Azure • Derby • DB2 (LUW, i, z) • Firebird • H2 • HSQL • Informix • MariaDB • MongoDB • MySQL • Oracle • PostgreSQL • SAP Hana • Snowflake • SQLite • SQL Server • SQL Anywhere • Sybase • Tibero

AND MORE

Load Only

• BigQuery • Cassandra • Elasticsearch • Greenplum • Kafka • Redshift • S3 • Teradata

AND MORE

System Requirements

- Windows, Linux, Solaris, Mac OS X, Android, iOS
- Java SE version 17 or newer

SymmetricDS

High Resiliency

Automatically recover from network outages.

Prioritize and group your data with channels to keep data moving in parallel.

Auto-resolve foreign key dependencies.

Replicate databases with different schema versions.

Cluster multiple servers for high availability and concurrency.

Professional Support

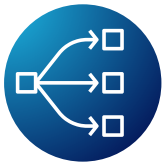
A production environment demands dependable, expert resources to provide technical assistance and troubleshoot problems.

A Support Subscription from Jumpmind provides access to highly skilled support engineers with guaranteed initial response times and 24/7 coverage.

Product Solutions

DATA SYNCHRONIZATION / CONSOLIDATION

Data from multiple databases across the enterprise are synchronized and combined, working across low-bandwidth connections and withstanding periods of network outage. Thousands of databases can be connected to a central one using one or more tiers of synchronization.



WORKLOAD DISTRIBUTION

The operational database is replicated to a data warehouse or a reporting database. The main application continues to use the operational database, while the secondary database is used for reporting and analysis. The data can be filtered and transformed to enhance reporting.

BRIDGE BETWEEN DATABASES

Data is transformed during replication between different databases. Secure web transport protocols are used to replicate from a protected database to a frontend database.

DATABASE BACKUP

Critical database applications are protected by continuously replicating to a standby database. Changes are sent to the standby, which may be on a local or wide area network. In an emergency, the application is reconnected to the standby database. Once the production database is available again, SymmetricDS will replicate changes to it from the standby. The switch-over can also be used to perform planned maintenance and system upgrades. Since SymmetricDS is flexible enough to replicate between different databases and table layouts, some tables of the upgraded database may have new columns in old tables.

Jumpmind
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https://jumpmind.com/

Jumpmind, Inc.
PO Box 2012 • Westerville, Ohio 43086 • USA

+1-888-942-JUMP (5867)
sales@jumpmind.com

About Jumpmind

Jumpmind is a software company specializing in data replication and integration software for the enterprise since 2007. We provide consulting, development, and training. Our mission is to provide software that is creative, elegant, and easy to use. We embrace an open model of development and collaboration with a worldwide community, helping us make better software faster.