

CONNX DATA REPLICATION

DataSync for change data capture and transformation



Keep your data sources in sync with minimal resources

Keep your data fresh and up-to-date without impacting the performance of your data sources with CONNX DataSync. With DataSync, you can maintain data warehouses with minimal effort and resources by incrementally updating only those records that have changed in near real time—eliminating the need for large and resource-intensive bulk data refreshes.

Your ability to support faster, effective decision making across your organization depends on the reliability and accuracy of the data you supply while also not compromising your source systems' uptime and performance. With CONNX DataSync, you can move your enterprise data from virtually any source location to virtually any target, capturing changes from single or multiple data sources.

DataSync uses a unique distributed SQL engine to optimize performance based on available resources at the source and destination. Updates are triggered by incremental changes—on a schedule that you control—to ensure that your audience is tuned in to the very latest information available.

With DataSync, you can easily specify which data to move, when to move it, where to put it and whether to perform a complete or incremental update.

DataSync Transformation Server is available if you need full Extract, Transform and Load (ETL) of relational and non-relational data anywhere in your organization. And users of Microsoft® SQL Server® Information Services (SSIS) can add in DataSync for Microsoft SSIS to easily harvest changed data in the SQL Server database and 150+ data sources to perform efficient incremental loads to a data warehouse.

CONNX DataSync provides a reliable way to access data when you need to minimize the impact of business intelligence and analytics on your core system or infrastructure.

Key benefits

- Get up and running fast, start syncing within an hour of installation
- Drastically reduce the load against your production system in this scalable multi-machine environment
- Easily specify which data to move, where and when, and whether to perform a full reload or an incremental update with a simple user interface
- Simplify your data management requirements by capturing incremental changes from single or multiple data sources
- Minimize project risk with automated synchronizations between the source and target data

How it all works

To create a virtual data layer understood by a multitude of applications, CONNX imports metadata from your data sources into a single metadata model that abstracts the source data into a common framework. Virtual tables are created that place a relational model on the data.

With that virtual relational model now in place, CONNX DataSync can synchronize your data across multiple platforms. DataSync detects which records have been added, deleted or changed in your data sources and then inserts, updates or deletes the corresponding data in the data warehouse snapshot tables. Each file in the synchronization process may be scheduled independently or as a group.

Benchmark results show incremental updates are up to four times faster than full reloads.

DataSync

Automated data synchronization

DataSync lets you synchronize your data sources and data warehouses with minimal effort and minimal system requirements. You can continuously refresh your data with near real-time integration.

Change Data Capture (CDC)

Keep your data up-to-date with a micro-batch, low-latency CDC that incrementally updates only those records that have changed.

Built-in scheduler

Optimize system performance based on your organization's needs by setting your update schedule to meet demand. You can scale your synchronization tasks based on demand—simply schedule updates for low-use periods, such as after normal business hours, or as frequently as every minute when your business requires the most up-to-date information available.

Administrator

The DataSync administrator lets you create and manage your ETL processes and configure global synchronization and transformation settings. With it, you can schedule incremental or full synchronizations, launch pre- or post-sync tasks and set up automatic email event notifications.

DataSync for Microsoft SSIS

CDC for SSIS ETL

Do you already use Microsoft SSIS for your replication needs? Simply add in DataSync for Microsoft SSIS to easily harvest changed data in the SQL Server database to perform efficient incremental loads to a data warehouse.

DataSync is a pull-down option from within SSIS. Once DataSync is turned on, and change data capture is enabled on the database and tables, you can perform incremental loads of changed data. With this SQL Server SSIS add-on, you can also connect to any of the 150+ data sources supported by CONNX DB Adapters.

DataSync Transformation Server

ETL

This option features a powerful yet simple SQL-based transformation wizard that accelerates your ETL projects. Manage single- or multi-table transformations and synchronizations using its integrated query builder, or write your own SQL statements. Create new target tables or load data into previously mapped tables.

Fully compatible with virtually every server-side platform and database architecture, the transformation server easily lets you join any database table column from any data source, aggregate and create a target data warehouse. Then keep that data warehouse synchronized with your production database(s) at near real-time intervals with record speeds and minimal effort.

Transformation wizard

The transformation wizard gives you complete control over target database attributes including table and field names, data types, lengths, scales and precisions. Easily combine columns from any source table regardless of database type, and create new and unique indexes on your target table.

ABOUT SOFTWARE AG

The digital transformation is changing enterprise IT landscapes from inflexible application silos to modern software platform-driven IT architectures which deliver the openness, speed and agility needed to enable the digital real-time enterprise. Software AG offers the first end-to-end Digital Business Platform, based on open standards, with integration, process management, in-memory data, adaptive application development, real-time analytics and enterprise architecture management as core building blocks. The modular platform allows users to develop the next generation of application systems to build their digital future, today. With over 45 years of customer-centric innovation, Software AG is ranked as a leader in many innovative and digital technology categories. Learn more at www.SoftwareAG.com.

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