



CUSTOMER SUCCESS

AutoCrib bridges the gap between ERP data and IoT offline-first devices

Bi-directional sync from Microsoft® SQL Server to Couchbase for Mobile IoT clients with transaction-proof offline cache



Gluesync saved us one year or more of developing our own integration between Couchbase and Microsoft SQL Server. The MOLO17 engineering team worked hand in hand with our development team to tailor the solution to fit our needs.

Paul Meza, Director Product Development and Support at Autocrib

Databases involved

MS SQL Server 2019
Couchbase 7

Features

Real-time bi-directional sync
Nested JSON data modeling
ACID transactions
Schema containers

Volumes

2000 schemas w/ 20 tables each

Industrial vending machines leader AutoCrib was looking for a solution capable of replicating data from the company's MS SQL Server-based vending machine software to IoT devices that are a key component of the vending machine fleet located on client premises. With the NoSQL database Couchbase and MOLO17 Gluesync they found an ideal solution to their requirements.

The company

AutoCrib is renowned for its industrial vending machines, supplying tools and components to significantly reduce inventory expenses, enhance worker productivity, and streamline both the procurement and manufacturing processes.

Catering to prominent Fortune 500 companies, AutoCrib has installed over 20,000 industrial vending machines, known for their robust build, U.S. manufacturing, and customization options that effectively address a broad spectrum of requirements.



Project goals

AutoCrib MS SQL Server-based applications, used by thousands of customers worldwide, needed to connect with IoT hardware embedded within vending machines for inventory management with offline capabilities.

AutoCrib set challenging goals for the project:

- Data had to be transaction-proof for inventory accuracy
- A single Gluesync instance needed to manage 2000+ schemas



Why MOLO17 Gluesync was chosen

The technical team at AutoCrib was looking for a Change Data Capture solution that would achieve the following objectives:

- Support for Couchbase NoSQL database;
- Bi-directional synchronization capabilities;
- MS SQL Server support with no additional licenses;
- Capability to model data into nested JSON objects, but also to convert JSON objects into respective RDBMS tables when syncing data back to MS SQL Server.

After an extensive period of stress and benchmarks testing, where the AutoCrib team challenged every feature of the application, the decision was made to move to production based on the fact that every goal imposed on the product has been effectively reached. Gluesync's ability to support nesting of JSON objects in order to define complex data structures and its automatic reverse-engineering process capable of syncing that back to tables-rows-columns structures it is something that's still way ahead of competitors in the market.



Results

On deploying Gluesync, AutoCrib was able to complete an accurate bi-directional sync of more than 50 tables, with many of them involved in dozens of SQL JOINS simultaneously back-and-forth to Couchbase.

The data replicated by Gluesync is used to feed AutoCrib's user-facing apps and the commercial fleet of resellers and partners globally.

Thanks to MOLO17 Gluesync, AutoCrib's technical team is able to provide a better user experience:

- Ability to plug & play new data pipelines to grow Couchbase data and use cases;
- Real-time bi-directional data sync with low server-side resources footprint;
- Data flowing with ultra-low latencies.

About MOLO17 Gluesync

Gluesync is designed for real-time event-based data replication. Particularly effective in replicating data between major Relational Database Management Systems (RDBMS) and NoSQL databases, Gluesync also supports replication between NoSQL databases and Event Streaming Services.

The key functionality of Gluesync is its ability to perform real-time, two-way data streaming and replication. Gluesync's unique container-based architecture makes it easy to deploy with a low-resource footprint with no oversight required.

"We needed a combination of requirements for our integration and Gluesync was the only product that could meet them all."
said Joseph Cordasco, Product Owner at AutoCrib.

For more information on MOLO17 Gluesync™, please contact info@molol7.com



Providing solutions for a disruption-free digital transformation using NoSQL

