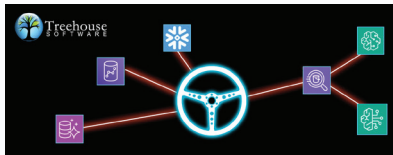


# Customer Case Study

## Large Automobile Manufacturer: Data migration from mainframe Adabas, VSAM, and Db2 to Snowflake on AWS with Treehouse Dataflow Toolkit (TDT)



The auto manufacturer customer is a global car manufacturer that sells a full line of vehicles under multiple brands. The customer's global headquarters manages operations in four regions.

The company is dedicated to the design, development, production, and distribution of motor vehicles, and operates complex supply chain networks spanning multiple countries.

They collaborate with suppliers, technology partners, and governments to advance safety, efficiency, and environmental performance. With a strong focus on quality, reliability, and brand reputation, the company plays a critical role in shaping the future of mobility.

### ABOUT TREEHOUSE SOFTWARE

Since 1982, Treehouse Software has offered the most comprehensive and flexible portfolio of solutions available anywhere for modernization, replication, and migration of data between a variety of mainframe and non-mainframe sources and targets.

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### BUSINESS ISSUE

Most of the auto manufacturer's high volume critical application data is stored on an IBM mainframe in Adabas, VSAM, and Db2 databases. The customer is moving to AWS-based computing which will allow them to share data across several applications. The solution must allow them to continue, uninterrupted, daily operations on their mainframe while replicating data to their AWS Cloud platforms. The solution must enable the customer to maintain demanding daily processing while they modernize and develop innovative Cloud solutions.

### TECHNOLOGY SOLUTION

Treehouse Software's Treehouse Dataflow Toolkit (TDT) is currently in production at the auto manufacturer as their key component for replicating dealership and vehicle order management data from multiple disparate mainframe databases to Snowflake on AWS.

The TDT solution, along with Treehouse's decades of mainframe expertise, and our Cloud Engineers' deep skills with multiple top-level AWS certifications accelerated the customer's critical data move to Snowflake and in the near future, other targets on AWS. Thanks to the Treehouse data delivery architecture,

the customer's data scientists and analysts can now access analytics-ready data through Snowflake. This enables sub-second query performance for rapid, intensive analytical tasks, and data sharing in real time, eliminating the need to move or copy data, thus enabling immediate insights across divisions and subsidiaries. The analytics teams can also make plans to easily add the latest AWS-based Analytics/AI/ML-friendly offerings, such as Amazon Redshift, Amazon Athena/S3, Amazon SageMaker AI, Amazon Bedrock, as well as any yet-to-be-developed Cloud services!

Since TDT is much more than a mere "connector," the customer was able to eliminate months of development time and costs by using the tool to quickly and automatically prepared the full infrastructure needed for Snowflake data loading. As shown in the following architectural diagram, TDT is taking the customer's mainframe data that was pumped into Amazon MSK (Managed Streaming for Kafka) by Rocket Data Replicate and Sync (RDRS) and lands it into Snowflake. TDT not only delivers the customer's data, but its advanced crawler functions **automatically prepare landing tables, views, and staging infrastructure for Snowflake**. Additionally, when needed, TDT now stands ready to generate an archiving infrastructure and create Apache Iceberg tables for enhanced data management.

