EDB POSTGRES AI

CUSTOMER SUCCESS STORIES

Infosys Turns Automaker's Legacy Systems to Next-Gen Solutions with EDB Postgres® AI

Infosys®

CUSTOMER:
European luxury automobile manufacturer

EDB and Infosys customer since 2021

Priyank Aeron
Principal Consultant - Infrastructure Management, Infosys

CHALLENGE: A major European luxury automaker needed to modernize its data infrastructure by migrating from stand-alone commercial databases to an open source solution—without disrupting critical business operations. Key gaps included limited failover capabilities, no site-level redundancy, inflexible RPO/RTO targets, and lenient security policies.

SOLUTIONS: EDB Postgres AI (EDB PG AI) Database

RESULTS: Infosys and EnterpriseDB (EDB) designed a robust, multi-node EDB PG AI Database architecture with multi-site failover, high availability, GDPR-compliant encryption, and fully automated deployment. A standardized, factory-model approach made it easy for end users to provision services through a self-service portal, reducing operational effort and optimizing costs.

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OVERVIEW

The future of auto manufacturing runs on sovereign, hybrid architectures

The automotive industry is undergoing a dramatic transformation driven by technologies such as artificial intelligence, digital systems, and smart manufacturing. These innovations are reshaping everything from factory floors to supply chains to the customer experience itself.

For manufacturers, competing in this environment demands full control over data and the systems that fuel it. Regulatory compliance, data security, and operational resilience are now as critical as innovation itself.

Automakers are meeting these demands by moving from older, rigid software and database systems toward flexible open source and hybrid cloud-native solutions. Postgres has emerged as the preferred choice, enabling both innovation and governance at scale.

Infosys, a global leader in next-generation digital services and consulting, partners with EDB to help clients migrate from legacy databases to Postgres faster and with less risk.

When one of Infosys's clients, a giant European luxury automobile manufacturer, was ready to modernize its entire data infrastructure, Infosys leveraged EDB Postgres AI (EDB PG AI) Database to deliver a high-availability, security-hardened architecture that kept the automaker in control of its data across a hybrid environment.

Powering automotive innovation with open source

The client's goal was to transform existing legacy data centers to cutting-edge technologies with the latest open source Postgres and Kubernetes platform versions. This involved creating a new hybrid cloud environment in which the client's development teams, application teams, and business teams could select database service offerings to automatically deploy and maintain their open source applications for automated driving, vehicle design, and more.

Above all, it was critical for these database services to meet stringent requirements for high availability along with specific recovery point objectives (RPOs), recovery time objectives (RTOs), and application service-level objectives (SLOs).

From legacy to sovereign infrastructure

Infosys built a robust, high-availability architecture comprising multisite data centers for automotive applications, using EDB PG AI Database with High Availability and PostgreSQL streaming replication. The company worked closely with EDB's Professional Services team to test and validate multiple failure scenarios and protect against site-wide outages, database problems, and virtual machine issues.

The key objective was to enable seamless failover and allow secondary systems to take over as primary nodes without any interruption to business operations or connected applications.

EDB PG AI enabled Infosys to maintain high availability for its automotive client's applications; meet the RPO, RTO, and SLA requirements; and ensure that the automaker, its partners, and customers would always have access to their systems.

> ***"Digital transformation through open source adoption and platform modernization is the need of the hour. Partnering with EDB helped us design a robust, sovereign architecture for our customer's application databases—meeting stringent SLAs, RPOs, and RTOs while ensuring full control over their data."***
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> **Priyank Aeron**
> Principal Database Architect Consultant, Infosys

EDB Strategic Account Executive Cyrille Sauvain was part of the expert team working with IT leaders at Infosys to make this migration a success. Sauvain says, "By working with Infosys, we delivered more than a stable database—we delivered a sovereign foundation the automaker can trust for critical operations. High availability, zero-downtime resilience, and data control are built in from day one, giving the confidence to modernize at scale and prepare for the next generation of AI-driven applications."

Securing data with enterprise-grade encryption

Infosys received an additional request from its automotive client for data-at-rest encryption to protect the data from unauthorized access.

"The community version of PostgreSQL doesn't offer at-rest encryption, so we asked EDB for options," says Infosys Principal Consultant Priyank Aeron. This was a perfect use case for EDB PG AI's Transparent Data Encryption, or TDE, which encrypts user data stored in the database system.

Infosys and EDB Professional Services worked together to quickly integrate the encryption capability, enabling the automaker customer to adhere to General Data Protection Regulation (GDPR) law and at-rest encryption requirements for its mission-critical applications.

A sovereign database environment that's future focused and production ready

Working together, Infosys and EDB successfully delivered 99.99%—four nines—availability for the automobile manufacturer's most critical systems.

Recognizing the advantages, the automotive client continues to modernize its database infrastructure. In one key project, Infosys helped the client transition a widely used manufacturing plant application from an enterprise relational database management system (RDBMS) to Postgres.

The benefits of modernizing the data centers and platforms include:

- **Automated database service deployment:** Automotive clients can now deploy Postgres databases in just a few clicks. They simply select the configuration that fits their business needs, and the entire database service is provisioned within hours.
- **A fully integrated solution:** From day one, each database service comes equipped with point-in-time backups, continuous monitoring, industry-grade security controls, and production-ready configurations—all built in by default.
- **Cost savings:** Clients don't pay up front for tools or subscription costs. Under a pay-as-you-go model, they're only charged when database services are actually deployed.
- **Seamless operations:** Since the managed service offering includes integrated operations by Infosys's DBA team, clients don't need to worry about day-to-day operations or version changes for their database hostings.

Positioned for the next era of automotive innovation

With EDB PG AI as its foundation, the automaker can deploy critical applications in minutes, operate with always-on availability, and maintain complete control over the data in a hybrid environment.

The architecture built with Infosys and EDB not only streamlines today's operations but also positions teams to adopt emerging capabilities such as AI-powered analytics, predictive maintenance, and agentic applications without re-architecting their data foundation.

Infosys and EDB are working together to evaluate additional EDB PG AI capabilities—such as pgvector for AI/ML workloads—for rollout to the automaker. These enhancements will extend the platform's advanced SQL features, Oracle-compatibility options, and enterprise-grade management tools, ensuring that the customer remains ready for the next wave of AI-driven applications.

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EDB Postgres AI is the first open, enterprise-grade sovereign data and AI platform, with a secure, compliant, and fully scalable environment, on premises and across clouds. Supported by a global partner network, EDB Postgres AI unifies transactional, analytical, and AI workloads, enabling organizations to operationalize their data and LLMs where, when, and how they need them. For more information, visit enterprisedb.com