



INFOSYS TRANSFORMS AUTOMAKER'S LEGACY SYSTEMS INTO NEXT-GEN SOLUTIONS WITH EDB POSTGRES® AI

About the client

A global automotive enterprise headquartered in Europe, specializing in premium mobility solutions and next-generation vehicle technologies. The company is focused on driving transformation across electrification, digital platforms, and sustainable mobility.

Global Presence:

It maintains a diversified global manufacturing footprint, supported by an extensive partner and supplier ecosystem.

Innovation & Legacy:

Recognized for its engineering capabilities and consistent investment in innovation, the company **continues to advance vehicle safety, performance, and digital experience.**

Business Challenge

To modernize its data infrastructure and accelerate innovation, the European luxury automaker needed to transition from standalone commercial databases to a highly available, open-source platform—without disrupting business-critical operations.

However, the legacy landscape posed key constraints:

- **Resilience and reliability gaps:**
Limited failover capabilities, lack of site-level redundancy, and inconsistent adherence to stringent RPO/RTO requirements
- **High cost and operational inefficiency:**
Heavy reliance on traditional RDBMS platforms, combined with manual provisioning and deployment cycles impacting agility and time-to-market
- **Capability and governance challenges:**
Limited in-house open-source expertise alongside evolving security and governance requirements
- **Future readiness limitations:**
Absence of a scalable, resilient platform to support AI-driven applications and connected vehicle ecosystems

These factors collectively constrained scalability, operational agility, and the ability to support next-generation, data-intensive workloads.

Market Position:

The organization serves customers across key global markets, with a strong presence in the premium automotive segment.

Executive Summary

Infosys enabled a leading global automotive enterprise to transform its legacy database landscape into a highly available, fully automated, open-source DBaaS platform, accelerating innovation, improving resilience, and creating a scalable foundation for AI-driven digital transformation.

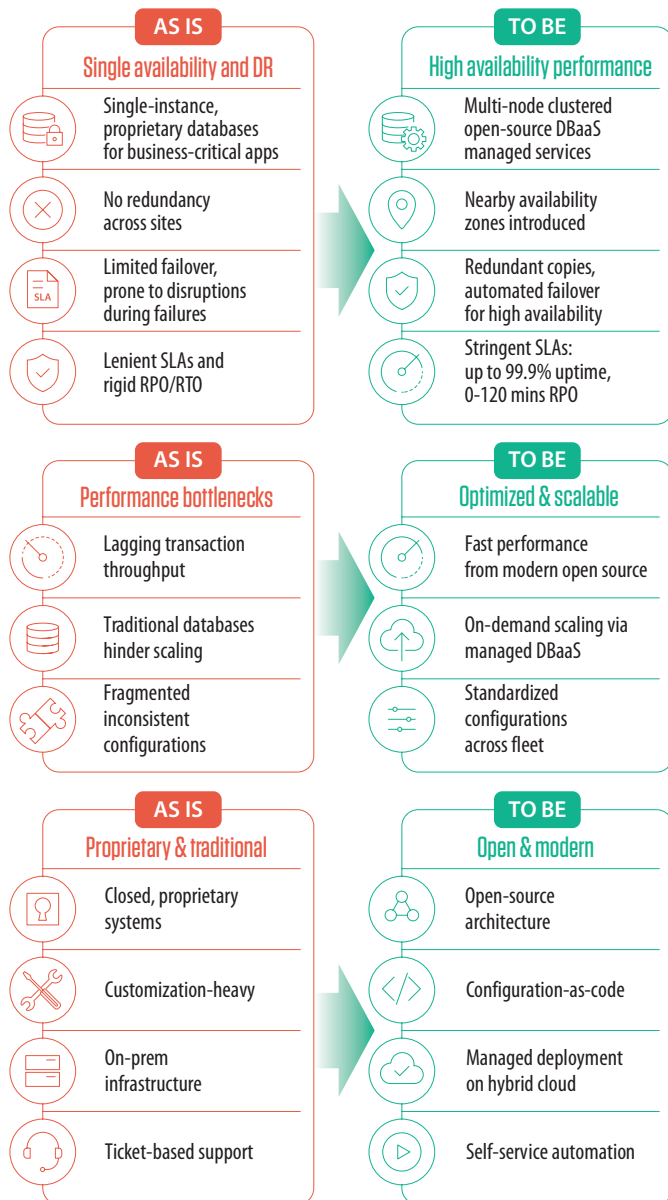
The Solution: A Scalable, AI-Ready DBaaS Platform

Infosys designed and delivered a fully managed, open-source Database-as-a-Service (DBaaS) platform to transform the client's data landscape and enable scalable, future-ready digital growth.

Engineered for mission-critical and AI-driven workloads, the platform delivers enterprise-grade high availability, robust security, automated provisioning, and up to 99.99% application-level SLOs through a self-service, on-demand model.

Structured across three metal classes with distinct SLA tiers and architectural configurations, the platform provides the flexibility to support diverse application requirements at scale.

The architecture integrates native PostgreSQL streaming replication, automated failover via cluster management, and multi-site high availability with cross-zone resilience, while VIP-based connectivity ensures seamless failover without manual intervention.



Platinum - PostgreSQL

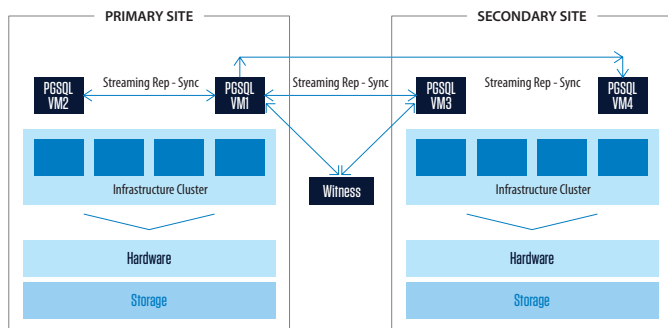


Fig. 1 - Solution Architecture

Architecture Highlights

- Continuous data resilience:**
 Native PostgreSQL streaming replication across cluster nodes ensures real-time data consistency
- Intelligent failover:**
 Automated cluster management enables rapid failover, ensuring uninterrupted business operations
- Multi-site availability:**
 Cross-zone architecture delivers high availability and site-level resilience
- Seamless application continuity:**
 VIP-based connectivity enables failover without manual intervention.

Key Technological Achievements from Architecture Innovations

	< 30s	Failover time across and within sites
	Automated	100% automated solution for end customer
	500+	500+ customer orders already processed using a self-service portal and still counting
	99.99%	Up to 99.99% availability to meet stringent application SLOs
	7	Flexible T-shirt sizing options
		3 metal classes tailored to application criticality and availability
		Integrated Backup & Recovery across the board
		No vendor lock-in for open-source versions

Business Impact

- **Revenue Acceleration:**

The platform evolved into a strategic, revenue-generating service offering, creating measurable business value while accelerating open-source adoption

- **Scale and Reach:**

The platform has scaled rapidly, supporting 500+ deployments across the globe and enabling consistent, enterprise-grade database services for mission-critical applications worldwide

- **Customer Confidence:**

Strong adoption levels reflect growing client trust and confidence in the platform

From Transformation to Scaled Adoption

Beyond the core transformation, Infosys enabled enterprise-wide adoption of open-source database platforms through targeted knowledge-sharing initiatives, enablement programs, and technical roadshows. This approach accelerated modernization while strengthening internal capabilities in open-source technologies. The reuse of the platform architecture and operating model across additional engagements underscores its scalability, maturity, and effectiveness in driving enterprise-wide adoption.



Data sprawl isn't just technical debt, it's a control problem. As agents move into production and act on enterprise data at machine speed, the platform underneath must be owned and governed, not rented. That's the thinking behind EDB Postgres AI: a sovereign foundation built for the agentic enterprise. Through our collaboration with Infosys, customers can confidently modernize legacy data estates and establish a trusted foundation for AI-driven innovation at scale.

Abdo Gadmour

- Channels & Alliances Director for the Middle East and Africa (MEA) region, EDB (EnterpriseDB)

Conclusion:

Infosys enabled a leading global automotive enterprise to transform its legacy database landscape into a highly available, automated, and scalable open-source DBaaS platform.

This transformation enhanced agility, reduced operational complexity, and established a resilient foundation to support AI-driven and data-intensive workloads. By modernizing to an open-source, platform-led model, the organization is now better equipped to scale innovation while optimizing cost and operational efficiency. This initiative sets a strong reference for enterprise modernization where open-source, automation, and resilience converge to deliver measurable business impact.

About the author:

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Priyank is an experienced technology leader with 18+ years of expertise in driving large-scale infrastructure, database, and cloud transformation initiatives. In his current role as Principal Consultant and Lead Database Architect, he specializes in database modernization, platform architecture, high-availability and strategic advisory support to drive large-scale adoption of open-source database services for global enterprises.



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