The **Trusted MQTT Platform for** Connected Vehicles

HiveMQ, an advanced data connectivity platform, harnesses the power of MQTT to lay a powerful foundation for feature-rich connected vehicles. It solves connectivity and interoperability challenges with a secure, reliable, and scalable messaging infrastructure that can support the volume and variety of data generated by modern vehicles. HiveMQ powers use cases that enhance the driving experience, make it safer, and provide greater value to both drivers and operators.

The Modern Connected Vehicle

A modern connected vehicle creates up to 25GB of data per year, up from a few hundred megabytes per year just a few years back. Connected vehicle platform providers face several challenges such as intermittent connectivity, massive load peaks during rush hours, and diminishing performance at scale. They need the right technology in place to meet customer expectations for a seamless connected vehicle experience.

Connected vehicle companies can enable these outcomes with HiveMQ:

Personalized in-vehicle experiences:
Tailor everything from navigation routes to entertainment options to individual preferences.

Remote diagnostics:
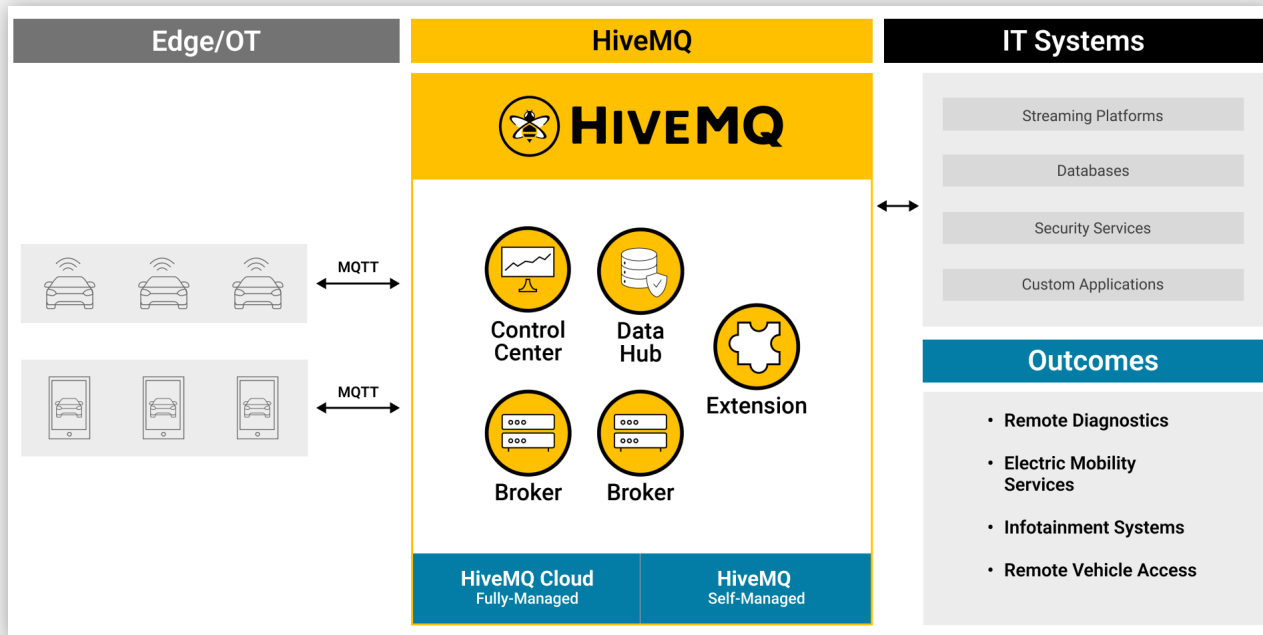Monitor the performance and health of vehicles in real-time to provide valuable insights to operators.

Remote vehicle control:
Enable real-time vehicle control with mobile applications to lock/unlock doors, start/stop engines, and more.

Predictive maintenance:
Identify patterns that indicate potential maintenance issues and provide alerts to reduce the risk of breakdowns.

Edge/OT · **HiveMQ** · **IT Systems**

HIVEMQ

Control Center · Data Hub · Extension · Broker · Broker

MQTT

Streaming Platforms
Databases
Security Services
Custom Applications

Outcomes
- Remote Diagnostics
- Electric Mobility Services
- Infotainment Systems
- Remote Vehicle Access

HiveMQ Cloud Fully-Managed · **HiveMQ** Self-Managed

Data and the Connected Vehicle

Data powers connected vehicle services. From helping engineers understand how vehicles perform, to enabling predictive maintenance, to providing customers with information like road and traffic conditions, data is at the core. HiveMQ has been enabling connected vehicles for years, moving data between vehicles and the enterprise or cloud to drive new services and help automotive manufacturers and OEMs develop a growing revenue stream.

HiveMQ Platform For Connected Vehicles

HiveMQ solves the connectivity challenges in connected vehicles by adding a reliable, scalable and secure data abstraction layer between the vehicle and backend systems, which enables seamless interoperability and performance.

The key benefits of the HiveMQ MQTT platform that is trusted by over 130 customers are:

Business Critical Reliability:
Operate mission-critical systems reliably 24/7 with zero message loss and redundant clustering technology.

End-to-End Security:
Ensure applications and data meet the highest security standards with end-to-end encryption and configurable security controls.

Scalability to Support Growth:
Add any number of sites and scale to millions of connected devices seamlessly with a linear design for scalability.

Observable Insights:
Troubleshoot and keep all factory systems running as planned with tools and metrics for transparency and observability.

Flexible Integration:
Focus on your core business instead of using developer resources with OT-IT data integration into enterprise applications and infrastructure like Apache Kafka.

Simple-to-Deploy:
Achieve rapid time-to-value with a platform that is flexible enough to deploy on-premise, in any cloud, or via the fully-managed and feature-rich HiveMQ Cloud offering.

Scan the QR code to see how Rimac Technology is accelerating the future of Connected Cars with HiveMQ.