Empowering XPeng Smart System with App-Based In-Vehicle Network Testing Solution

DingLicom

Organization

XPeng Motors
A leading electric vehicle (EV) manufacturer, XPeng Motors is at the forefront of integrating cutting-edge technologies to enhance intelligent driving and deliver superior user experiences.

Overview

XPeng sought to ensure the robust performance of their in-car systems, particularly the T-box (Telematics Box), to provide seamless connectivity and reliable smart applications for their customers. Recognizing the importance of high-speed network performance in EVs, XPeng partnered with Dingli to optimize their in-vehicle network performance and reliability.

Requirements

- Validate the connectivity and performance of the T-box with public 5G networks.
- Diagnose and resolve network-related issues to enhance driving safety and user experience.
- Streamline testing processes with a solution easily integrated into XPeng's development workflow.
- Obtain actionable insights for optimizing in-car system performance.

Solution

XPeng adopted Dingli's **App-Based Testing Solution** with the following key features:
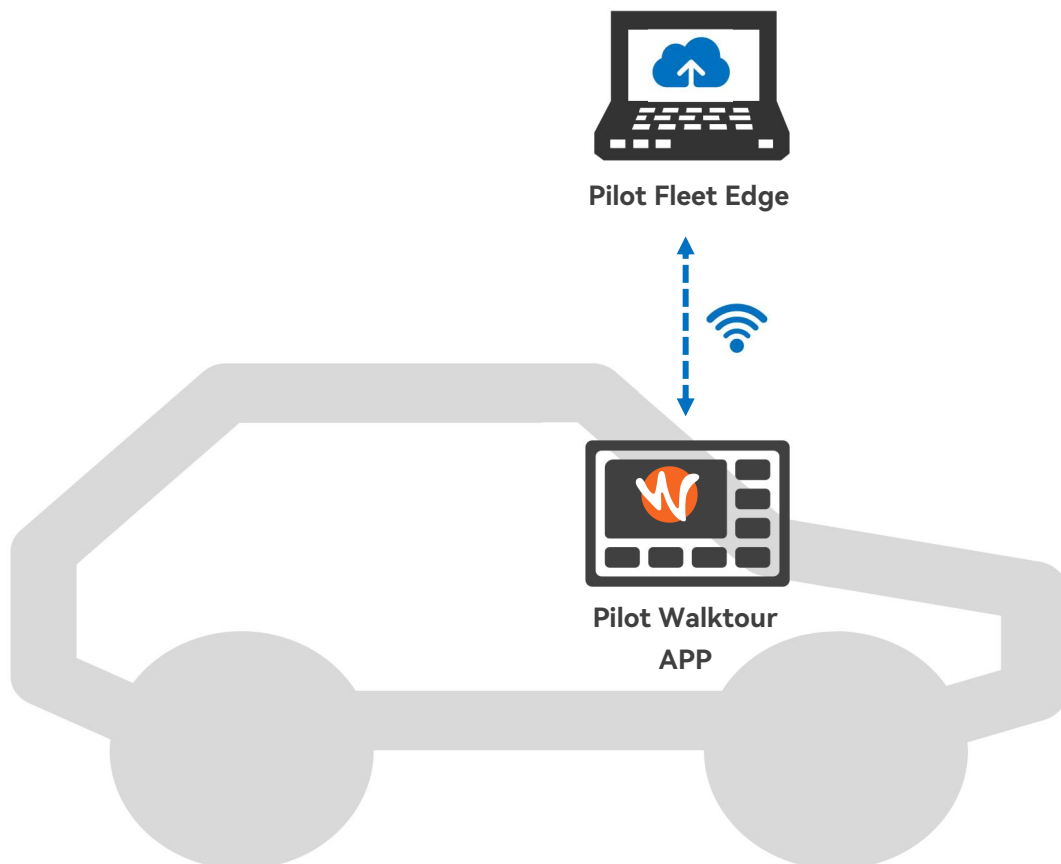
Pilot Walktour App
Installed directly on XPeng's in-car display, enabling precise testing of the T-box's connection with 5G networks.

Cloud Platform Pilot Fleet Edge
Enabled remote scheduling of test plans, real-time monitoring, and centralized statistical analysis, streamlining XPeng's network testing operations.

Support for Multi-Scenario Testing
Included network validation under high-capacity and high-traffic conditions, ensuring reliability across diverse driving environments.

Pilot Fleet Edge

Pilot Walktour
APP

Results

Enhanced Troubleshooting Capabilities

The Pilot Walktour app was directly integrated into XPeng's T-box system, enabling real-world network testing and swift troubleshooting of performance issues.

Improved Connectivity

XPeng's T-box demonstrated stable and optimized performance in public 5G networks, supporting seamless smart applications for drivers.
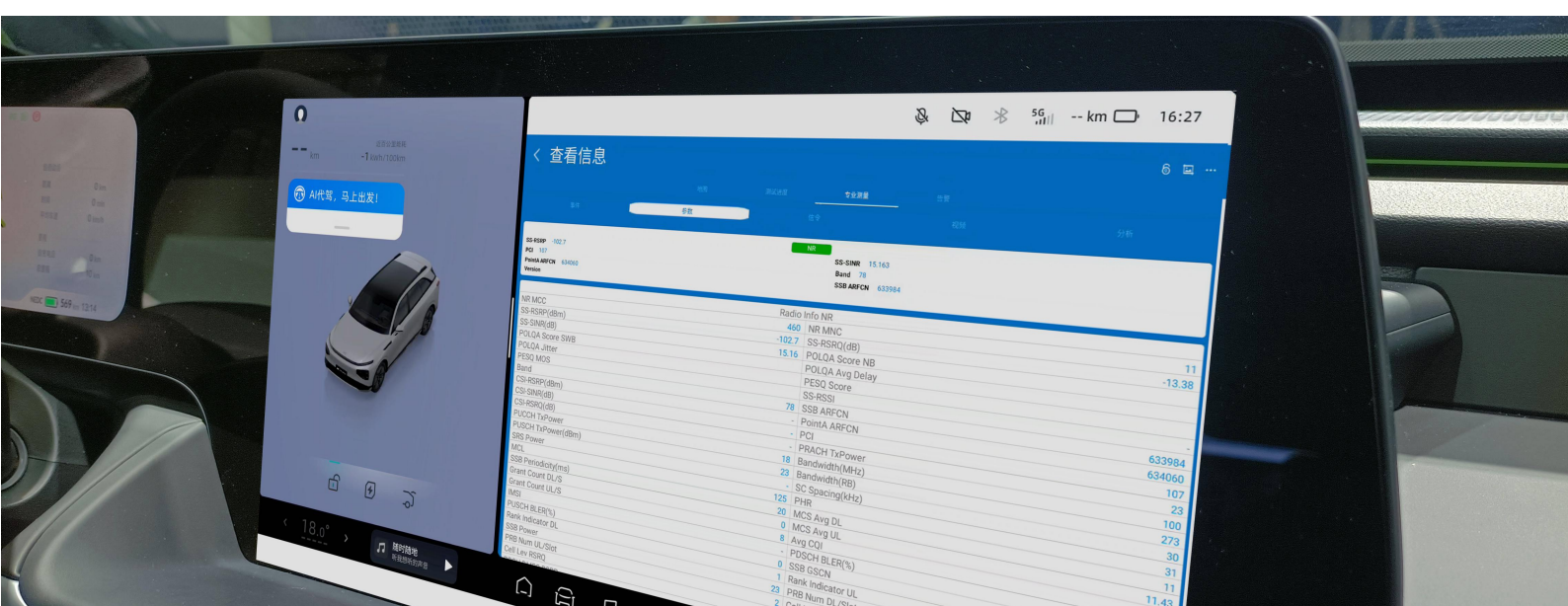
Actionable Insights

The comprehensive data analytics helped XPeng refine their in-car system configurations, enhancing overall user satisfaction.

Streamlined Testing Operations

Remote testing through Pilot Fleet Edge streamlined operations, saving time and resources while ensuring comprehensive performance validation.

By leveraging Dingli's app-based in-vehicle network testing solution, XPeng reinforced its commitment to delivering cutting-edge, connected EVs that meet the demands of modern drivers and accelerate the intelligent transformation of the automotive industry.

Explore more at: https://telecom.dingli.com

For inquiries on our products, applications, or services, reach out to your local Dingli representative.

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