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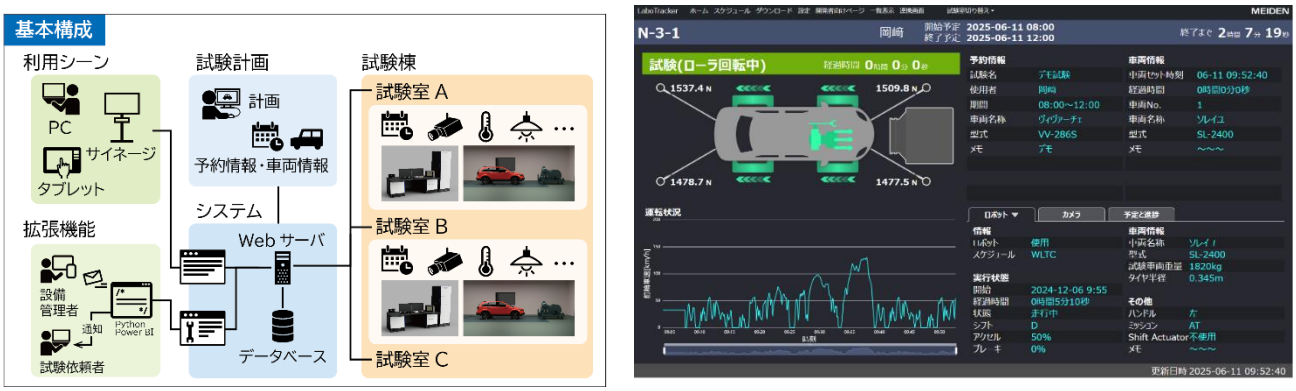
Meidensha Corporation

Meidensha develops Labo Tracker, a remote-monitoring app to streamline automobile testing, accelerate development

Meidensha Corporation has developed Labo Tracker, a remote-monitoring app connected to its chassis dynamometer system, which is capable of performing high-precision assessments of various vehicle performance metrics by replicating real-world driving conditions. The app allows users to monitor the operational status of testing facilities, measurement data, malfunctions, and other information in real time via PCs and smartphones. Visualizing testing status allows for more efficient operation of relevant facilities and helps reduce vehicle development timelines. Moving forward, Meidensha plans to enhance the product and aims to launch it on the market within fiscal 2026.



Displays of Labo Tracker developed by Meidensha

■ Development background

In recent years, the automobile industry has faced increasing demand to shorten development cycles while maintaining robust quality control. Against this backdrop, there is a growing need for systems that accelerate vehicle development and maximize the utilization of testing facilities. Labo Tracker was developed to provide comprehensive solutions to these industry challenges, such as ensuring transparency in testing data, which helps prevent the

falsification of quality test results. The system has been introduced on a trial basis to major automakers.

■ Main features of Labo Tracker

1. Shortening development period
   Labo Tracker helps improve the efficiency of testing facility operations by allowing users to monitor testing status and progress as needed. By enhancing facility utilization, it supports faster vehicle development timelines.
2. Compatibility with various equipment
   The app is equipped with MQTT protocol[*1], widely used in IoT devices, enabling centralized monitoring and management of testing facilities owned not only by Meidensha but also other companies.
3. Seamless introduction and operation
   The app is designed with the fundamental concept of not increasing operational procedures beyond those required pre-introduction. It can also acquire measurement data and malfunction information from existing systems such as MEIDACS[*2], enabling straightforward implementation without adding burdens to on-site personnel.
4. Accessible anytime, anywhere
   Its browser-based interface allows access from PCs, smartphones, and tablets. This feature enables testing personnel and facility managers to monitor the operational status of facilities in real time from any location, resulting in prompt decision-making.

Meidensha is committed to providing peace of mind to customers by ensuring transparent automobile testing and inspection procedures, contributing to improved product quality in the automotive industry and greater efficiency in vehicle development.

*1: MQTT (Message Queuing Telemetry Transport) is a protocol designed to facilitate lightweight, efficient communication, even for devices with limited specifications. It enables data transmission in environments with restricted network bandwidth.

*2: Meidensha’s operation and measurement systems for testing automobile engine performances and exhaust emissions.
https://www.meidensha.com/products/automobile/prod_01/prod_01_02/

Testing System Chassis Dynamometer System
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