

LOGISTEED Obtains Three Patents for Vehicle Data Utilization Technologies
- Supporting Stable Commercial Vehicle Operations Through Remote Diagnostics,
Centralized Data Management, and Fuel Efficiency Visualization -

LOGISTEED, Ltd. announced that it has obtained three new patents for technologies that utilize data collected from commercial vehicles. These technologies support remote vehicle diagnostics, centralized vehicle data management, and fuel efficiency visualization.

In the transportation industry, growing emphasis is being placed on stable vehicle operations, maintenance efficiency, and operational improvements through fuel consumption monitoring, in addition to decarbonization initiatives. However, vehicle data varies by manufacturer, vehicle model, and onboard device, making it difficult to effectively utilize and manage data across different vehicle fleets.

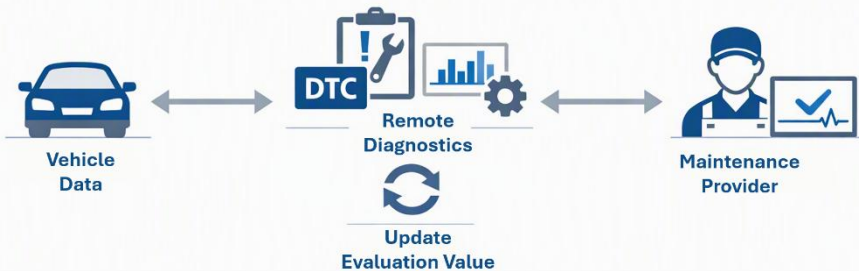
To address these challenges, LOGISTEED has obtained patents for the following technologies utilizing data collected from commercial vehicles:

- (1) Technology for remotely diagnosing vehicle conditions
- (2) Technology for centrally managing vehicle data collected in different formats and under different naming conventions
- (3) Technology for obtaining, calculating, and visualizing fuel efficiency information

These technologies contribute to stable commercial vehicle operations, enhanced preventive maintenance, and decarbonization initiatives through improved fuel consumption management.

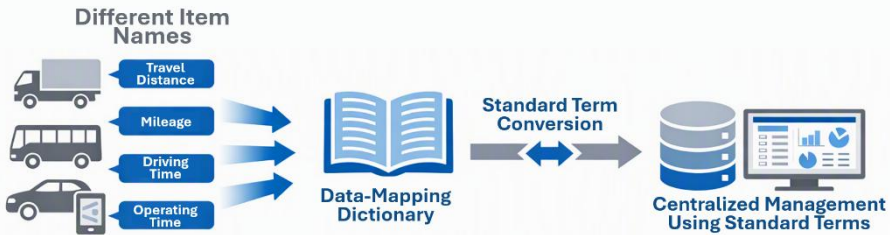
■ Patent Overview

(1) Remote Diagnostics

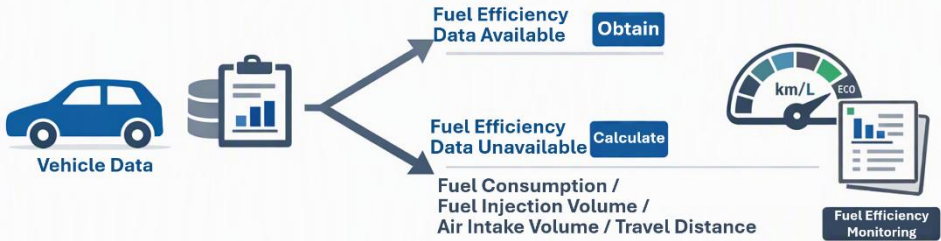
Title	Remote Diagnostic System, Remote Diagnostic Method, and Program
Patent Number	Patent No. JP7894715
Registration Date	July 15, 2026
Patent Holder	LOGISTEED, Ltd.
Summary	This patent covers a technology for remotely diagnosing vehicle conditions based on sensor data and diagnostic trouble codes (DTCs) collected from vehicles. By continuously incorporating the expertise of maintenance service providers into the diagnostic process, the system can improve diagnostic accuracy over time, enabling more appropriate vehicle diagnostics and preventive maintenance.
Diagram	

News Release

(2) Centralized Vehicle Data Management

Title	Vehicle Information Management System, Vehicle Information Management Method, and Program
Patent Number	Patent No. JP7865763
Registration Date	May 18, 2026
Patent Holder	LOGISTEED, Ltd.
Summary	This patent covers technology for centrally managing various types of data collected from vehicles. Data recorded under different names and formats depending on vehicle manufacturers, models, or onboard devices can be automatically standardized and organized into common management categories using a data-mapping dictionary, thereby improving the efficiency of vehicle data management and utilization.
Diagram	 The diagram illustrates a process for centralized vehicle data management. On the left, under the heading 'Different Item Names', there are four vehicle icons (truck, bus, car, and a smartphone) each associated with a data item: 'Travel Distance', 'Mileage', 'Driving Time', and 'Operating Time'. Arrows from these items point to a central 'Data-Mapping Dictionary' icon (an open book). A double-headed arrow labeled 'Standard Term Conversion' connects the dictionary to a 'Centralized Management Using Standard Terms' icon, which includes a database cylinder and a computer monitor displaying charts.

(3) Fuel Efficiency Visualization

Title	Fuel Efficiency Calculation System, Fuel Efficiency Calculation Method, and Program
Patent Number	Patent No. JP7865764
Registration Date	May 18, 2026
Patent Holder	LOGISTEED, Ltd.
Summary	This patent covers a technology for obtaining or calculating fuel efficiency information from actual vehicle operating data. When fuel efficiency data is available from the vehicle, the system obtains it directly. When such data is unavailable, fuel efficiency is calculated using information such as fuel consumption, fuel injection volume, air intake volume, and travel distance. This enables accurate monitoring of fuel efficiency even when available data items vary among vehicles.
Diagram	 The diagram shows the process of fuel efficiency visualization. It starts with 'Vehicle Data' represented by a car icon and a database icon. An arrow points from this data to a decision point. If 'Fuel Efficiency Data Available', the path leads to an 'Obtain' button. If 'Fuel Efficiency Data Unavailable', the path leads to a 'Calculate' button, which is associated with the formula: $\text{Fuel Efficiency} = \frac{\text{Fuel Consumption} / \text{Fuel Injection Volume} / \text{Air Intake Volume}}{\text{Travel Distance}}$. Both paths lead to a 'Fuel Efficiency Monitoring' icon, which includes a speedometer showing 'km/L' and 'ECO' mode, and a document with a bar chart.

Some images include AI-generated content.

LOGISTEED Group will continue creating new values in logistics and contributing to the realization of a sustainable society.

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