



**Re'tes**

Diagnostic

Sep

24



What is it?

# Diagnostic

Diagnostic devices have become an indispensable piece of equipment for every vehicle workshop today.

Regardless of the nature of the malfunction, access to the Electronic Control Units (ECUs) is required during repair operations to clear fault codes or configure replacement components. For manufacturers other than global giants, connecting to each ECU typically requires using a different diagnostic tool.

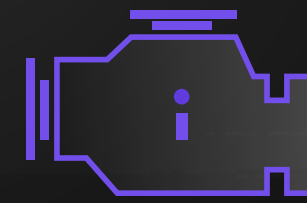


What is it?

<https://www.retes.io>

# All in one diagnostic

hardware & software



Repair Books

Sensor Control

Vehicle Fault Control

4.8 123

92.4



Who Does It Serve?

It is configured according to  
different vehicle types with  
customizations.

**Truck**

**Bus**

**Agricultural Vehicles**

**Work & Stacking Vehicles**





**Core Product**

# Fault Diagnosis

The Fault Diagnosis feature quickly identifies mechanical and electronic issues in the vehicle by decoding fault codes and pinpointing the source of the problem.

This enables service operations to be carried out more quickly and accurately.

The screenshot displays a user interface for vehicle fault diagnosis. On the left is a dark sidebar with three main options: 'SCAN ECU' (highlighted with a purple icon), 'SENSOR', and 'CONNECT ECU'. The main area shows a top status bar with 'SERVER CONNECTED' and 'CAR CONNECTED'. Below this, four diagnostic panels are visible: 'ENGINE SYSTEM' with a warning icon and a specific fault code 'P2122 Pedal Position Sensor 1 Circuit Low Input'; 'TRANSMISSION' with an information icon and '2 FAILURE'; 'BRAKE SYSTEM' with a checkmark icon and 'NO FAULT'; and 'SUSPENSION' with a checkmark icon and 'NO FAULT'.



# Sensor Data

The sensor data reading feature monitors and analyzes real-time data from vehicle sensors.

It provides detailed information about the vehicle's performance and condition by tracking parameters such as engine, speed, and temperature.



The screenshot shows a dark-themed sidebar on the left with four navigation icons: a hexagonal logo, a car chassis, a gauge, and an engine. The main area features two status buttons: 'SERVER CONNECTED' and 'CAR CONNECTED'. Below these are five data rows, each with a label and a value.

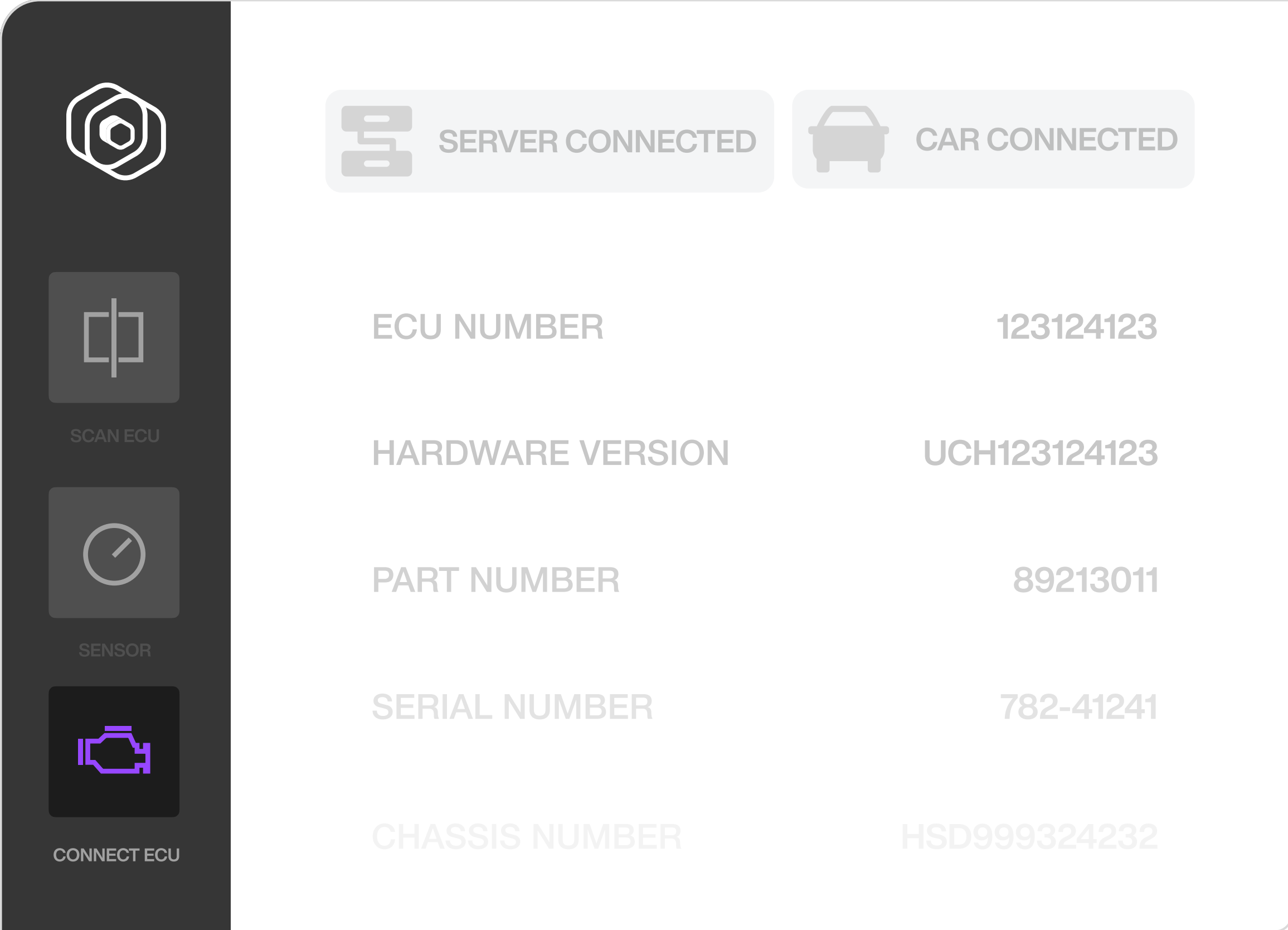
SERVER CONNECTED	CAR CONNECTED
CAR SPEED	123MI/H
ENGINE LOAD	%75
INSTANT CONSUMPTION	6.3L / 100MI
FUEL LEVEL	42.4/55L
VOLTAGE	06'



# ECU Information

The ECU connectivity feature collects real-time data from systems such as the engine, brakes, and transmission, enabling quick analysis of vehicle status and fault detection.

- FPT engines
- Cummins engines
- Wabco brakes, ECAS, LDWS, radar
- Knorr radar, camera
- ZF transmission
- Allison transmission
- ...



The UI mockup consists of a dark vertical sidebar on the left and a light grey main content area on the right. The sidebar contains four icons: a hexagonal logo at the top, a square with a vertical line, a circular sensor icon, and a purple engine icon. Below each icon is a label: 'SCAN ECU', 'SENSOR', and 'CONNECT ECU'. The main content area features two status bars at the top: 'SERVER CONNECTED' with a server rack icon and 'CAR CONNECTED' with a car icon. Below these are five rows of data, each with a label on the left and a value on the right.

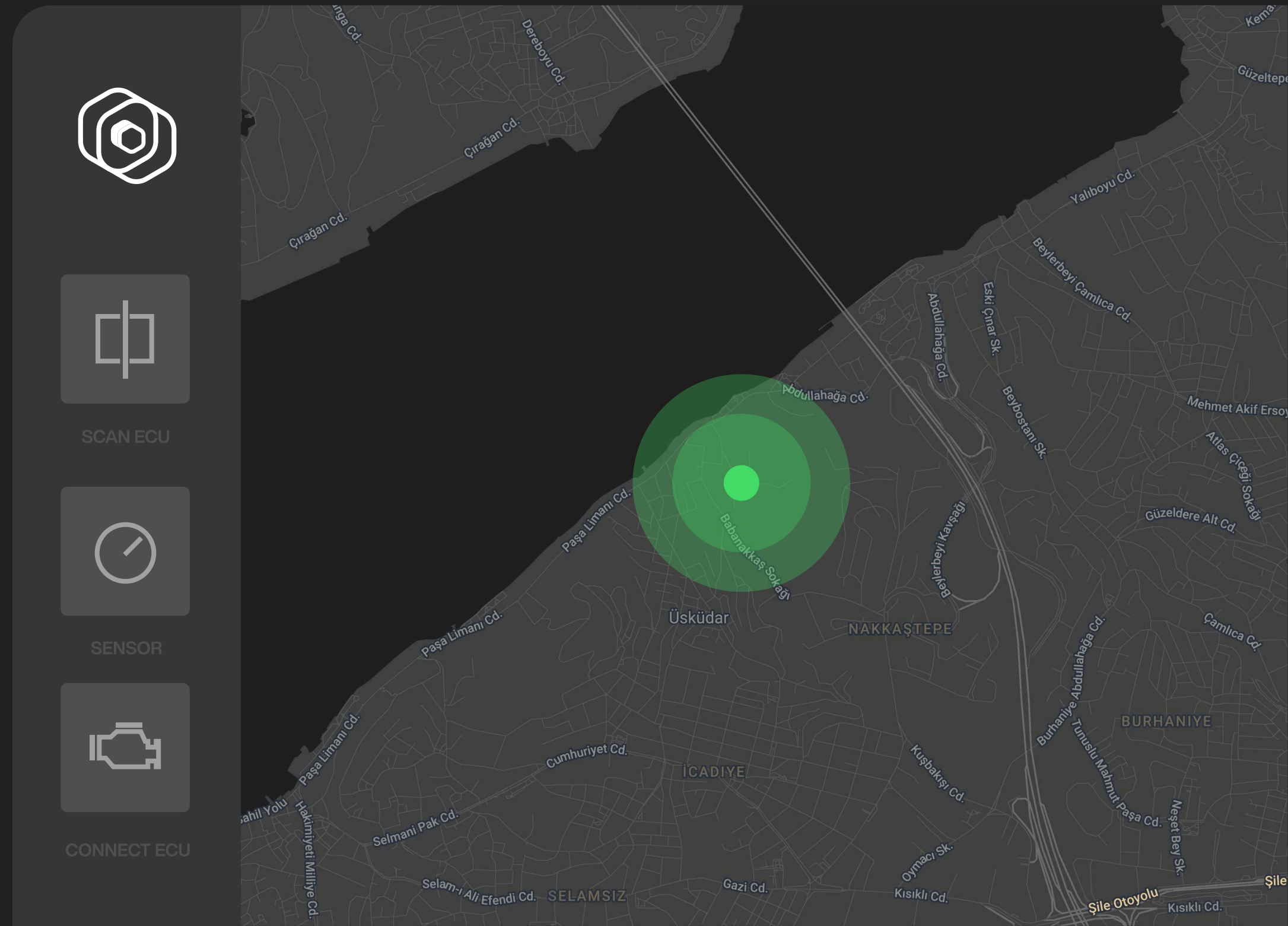
SERVER CONNECTED	CAR CONNECTED
ECU NUMBER	123124123
HARDWARE VERSION	UCH123124123
PART NUMBER	89213011
SERIAL NUMBER	782-41241
CHASSIS NUMBER	HSD999324232

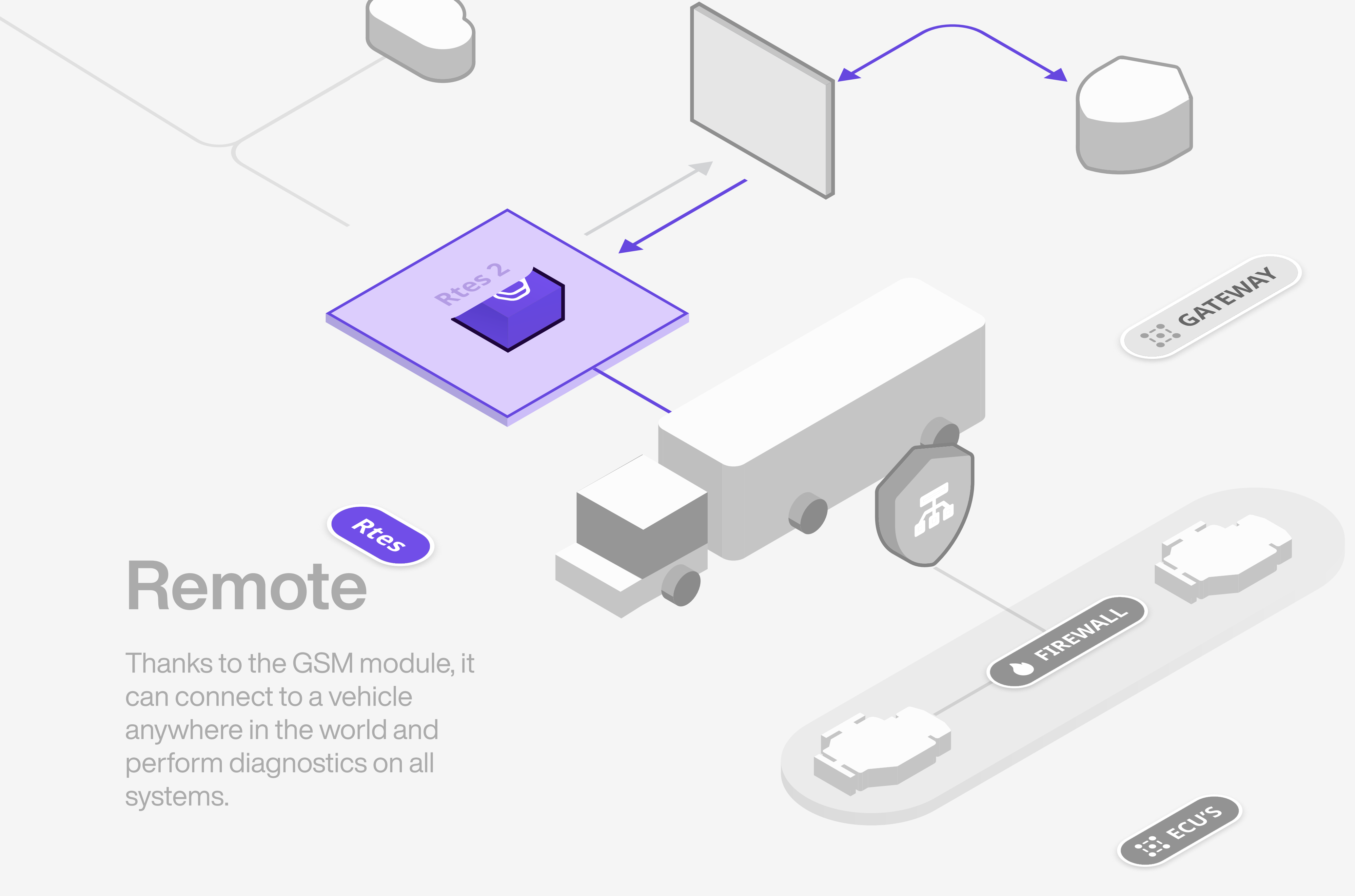
# Location Info

## Location Info

The Location Information feature monitors and records the real-time positions of vehicles via GPS.

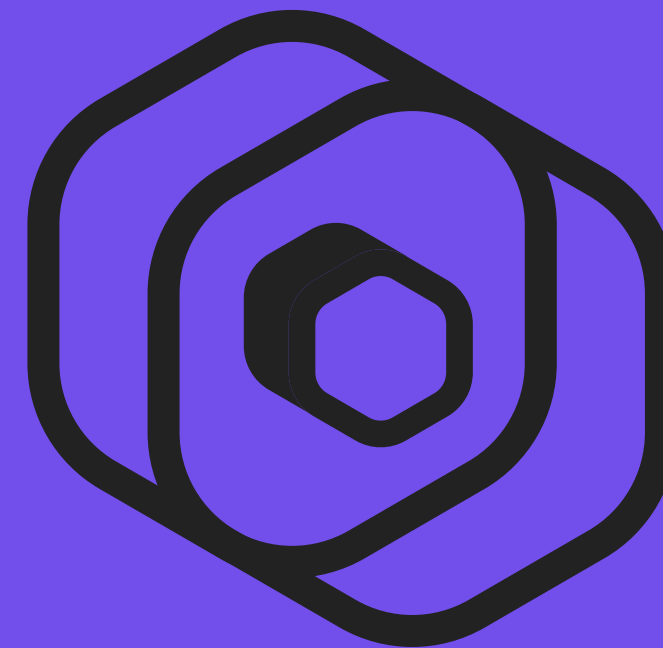
This allows for tracking of past routes, and effective management of security and fleet operations.





# Remote

Thanks to the GSM module, it can connect to a vehicle anywhere in the world and perform diagnostics on all systems.



# Benefits

# Low Cost

## Problem

Service centers need multiple diagnostic devices to diagnose and repair different brands and models of vehicles. This increases device costs, raises process complexity, and decreases efficiency.

## Çözüm

Faults from different brands can be read with a single device. With a single update, access to the latest data of all brands is provided, eliminating the need for multiple devices and reducing costs.



# Customer Satisfaction

## Problem

When fault diagnosis processes are long and cumbersome, customer satisfaction decreases. Additionally, customers need to visit the service center physically for diagnosis.

## Çözüm

Our product can predict faults before they occur and perform remote fault reading and clearing. This enables faster service for vehicles that break down on the road and significantly reduces service time.





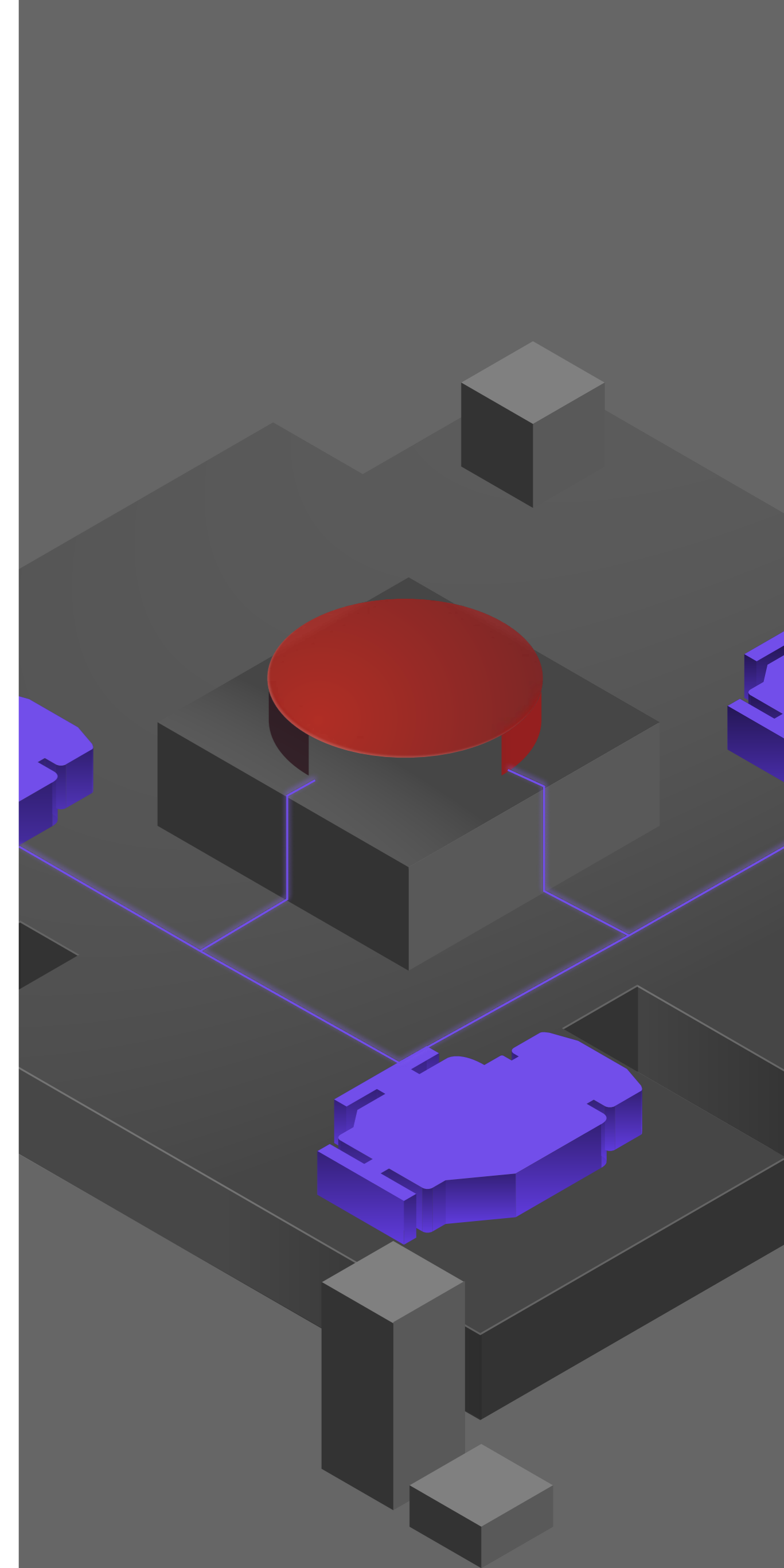
# One-Click Fault Diagnosis

## Problem

Standard diagnostic procedures only communicate with their own control unit, which means not all potential faults may be detected.

## Çözüm

With the one-click checkup feature, all units can be connected sequentially, and all potential issues can be read with a single button. This helps identify problems that might otherwise be overlooked.



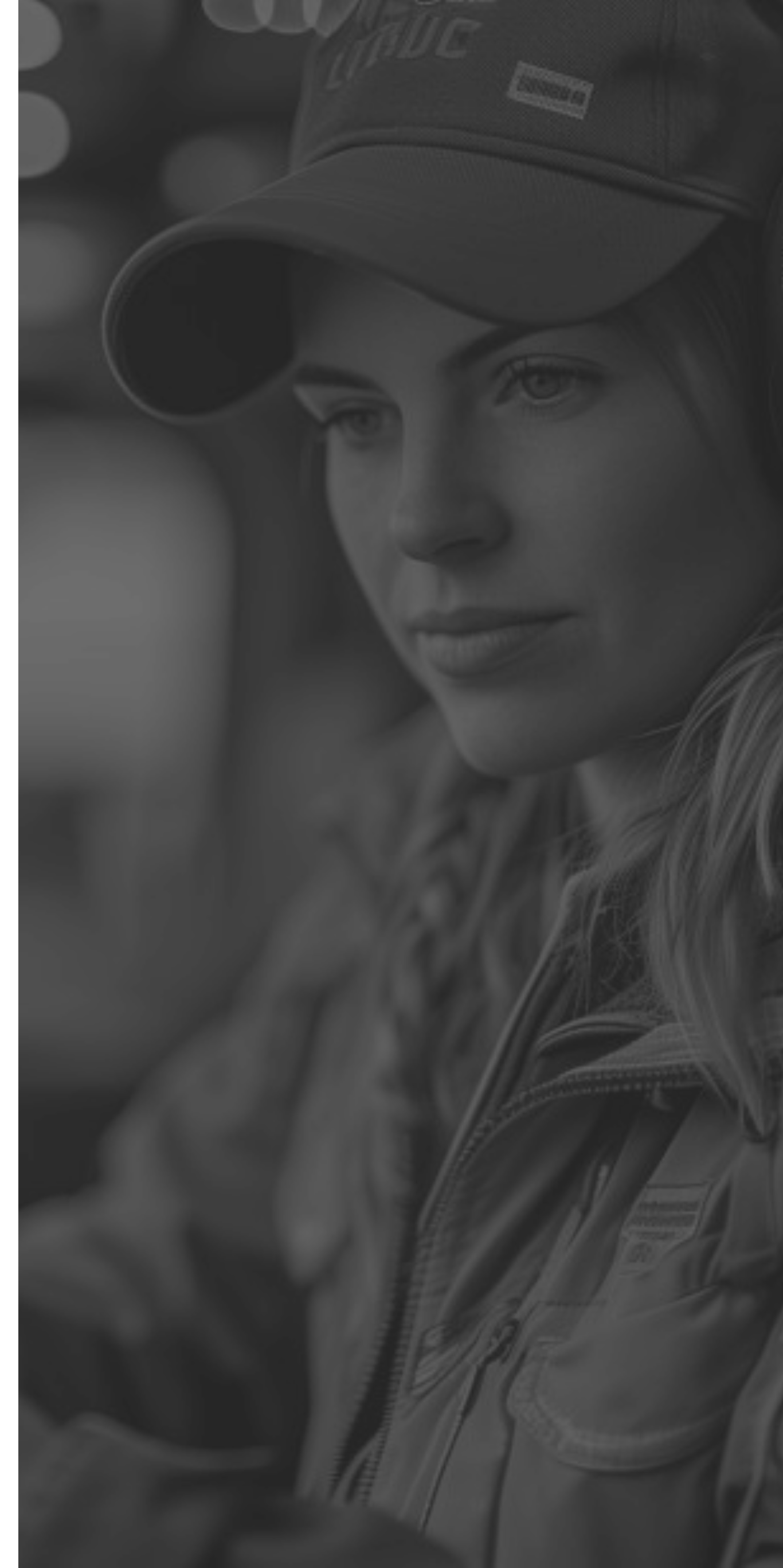
# Standardization and Status

## Problem

Since different service centers perform operations differently, maintaining quality and service standards becomes challenging.

## Çözüm

With the central standardization feature, all service operations can be monitored and standardized from a central point. Diagnostic solutions offered in a single location are usually provided only by major vehicle manufacturers.



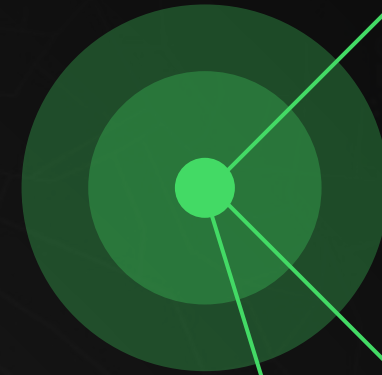


What is it?

# Retes V3

Upgrading the Remote Diagnostic device with telemetry systems enables the analysis of not only vehicle data but also usage data.

With this development, the data obtained can allow for three-dimensional data analysis, including:



12mi/h

Vehicle Speed

60.812

Total Mileage

28

Battery Voltage



0 Free

Brake Status



2lt/mi

Fuel Consumption



89%

Engine Load



Thanks.

