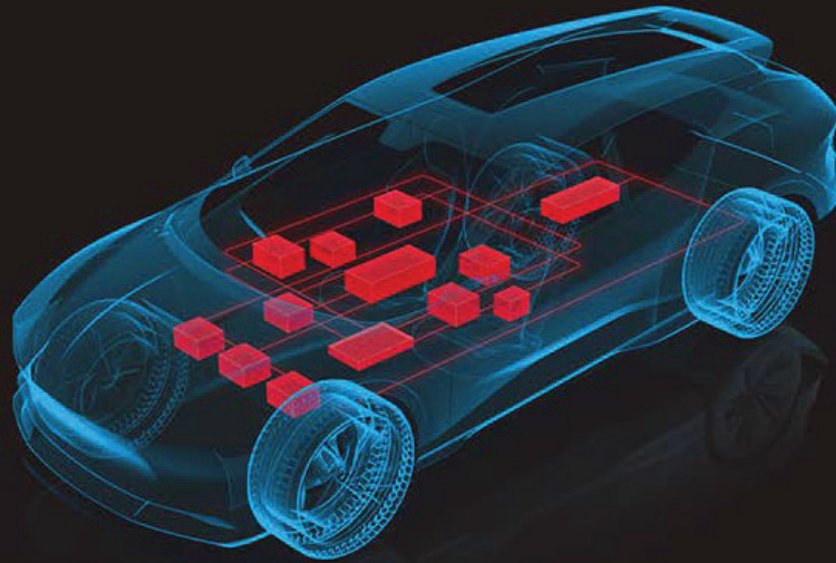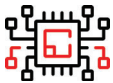![Sonatus logo]

Software Defined Component Solution

Deliver vehicles that intelligently adapt to real-world driving conditions

Ensure optimal performance of all vehicle components

Achieve the full promise of Software-Defined Vehicles with components that can be dynamically tuned for peak performance in any driving condition.

Continuously improve components throughout vehicle lifetimes

Optimize data collection without software updates using targeted, lightweight policies that reduce data upload and processing costs.

Leverage precise real-world data to analyze component performance

Collect real-world vehicle and driving data in diverse driving conditions, enabling more efficient and accurate AI/ML analysis in the cloud.
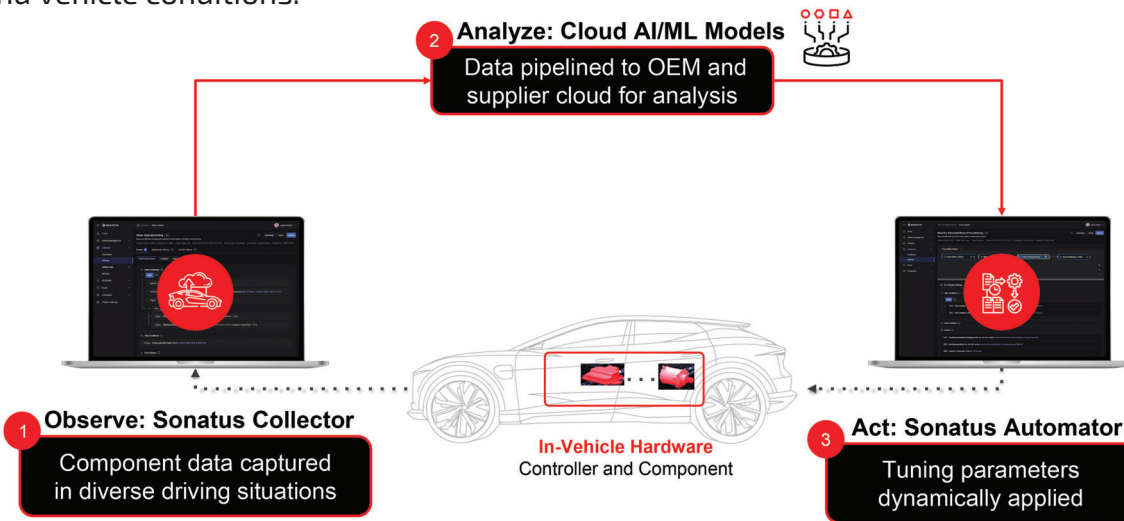
Dynamically tune components in real-time

Ensure motors, sensors, and actuators operate at peak performance under diverse driving conditions by automatically tuning their Electronic Control Units (ECUs) in real-time.

![SONATUS]

Software Defined Component features

The full promise of Software-Defined Vehicles is realized when all electronic components in vehicles can be continuously updated and improved throughout their lifetimes. The Sonatus Software-Defined Component Solution, consisting of the Sonatus Collector and Automator products, lets OEMs and their suppliers establish a closed-loop process to apply real-world, data-driven analysis and automated updates to tune vehicle ECUs, ensuring maximum component performance under any driving and vehicle conditions.

2 Analyze: Cloud AI/ML Models
Data pipelined to OEM and supplier cloud for analysis

1 Observe: Sonatus Collector
Component data captured in diverse driving situations

In-Vehicle Hardware
Controller and Component

3 Act: Sonatus Automator
Tuning parameters dynamically applied

Collect Real World Driving Data

- Define targeted policies to collect data in varying real-world scenarios
- Instantly deploy policies to a single vehicle or millions
- Gain access to all vehicle signals –CAN, Ethernet, ECU, Logs, media, and more

Improve Efficiency of Cloud-Based Analysis

- Feed precise and relevant data into OEM or supplier models
- Leverage leading-edge cloud data analysis including AI/ML
- Continuously improve models with ongoing data gathering

Automate Real-Time ECU Tuning

- Role Based Access Control
- Data encrypted at rest
- Transmission secured using TLS
- GDPR compliant

Standards Supported

![COVESA] ![GDPR COMPLIANT] ![AUTOMOTIVE GRADE LINUX] ![AUTOSAR] ![ASAM Member]