

Source: Consumer Survey Conducted by Otonomo and SBD Automotive, 2020

## Important standards, regulations and guidelines areas for remote data collection

### REMOTE DIAGNOSTICS:

ISO 20080:2019  
Privacy/Health data:  
GDPR, IEC 17030, ...

### SAFETY:

ISO 26262, ISO/PAS 21448, GSR

### SECURITY:

ISO/SAE DIS 21434, ECE/TRANS/  
WP.29/2020/79, Cybersecurity Act,  
C\_ITS Delegated Act

### CLOUD COMPUTING:

ISO/IEC 17788, COR-S-5909042

### AVAILABLE VEHICLE DATA:

Voltage, speed, vehicle status, mileage, CAN data, average fuel consumption, diagnostic trouble codes, function counter, ECU-specific measurement

## Use cases for collected data



### Increase safety and security

- Wirelessly and remotely retrieve automotive diagnostic trouble codes (DTCs) for analysis and management and enable remote diagnostics
- Reduce time for intervention by collecting and forwarding warnings in real time
- Conduct big data analysis on collected data to identify possible anomalies and enable and **predictive maintenance**



### Enrich product development

- Gather product field data to reduce development costs and to optimize materials
- Analyze actual usage patterns to better tailor services and products to customer needs
- Understand how your vehicles, and employees operate, identify inefficiencies and support better operational decisions



### Enable new revenue streams

- Offer tailored advertising
- Resell big data to 3<sup>rd</sup> parties

## EB cadian Analytics – Optimized remote data collection

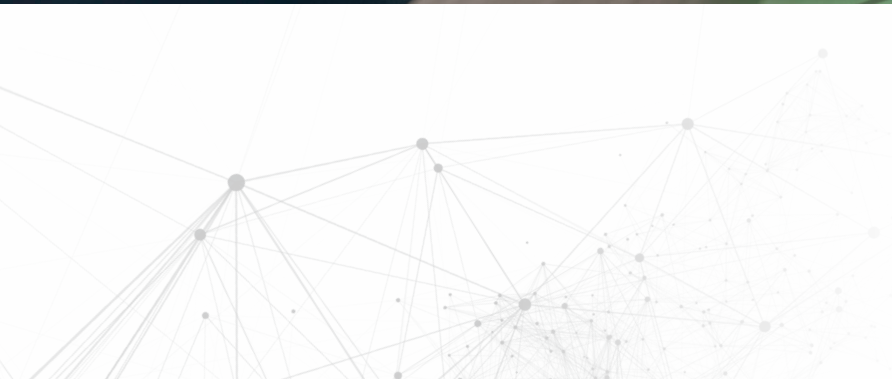
EB cadian Analytics is EB's end-to-end software solution for collecting, evaluating and handling vehicle data to enable remote diagnostics and predictive maintenance. The comprehensive solution provides the necessary on-board tools for collecting

in-vehicle data. It includes a secure communication channel between the cloud and the vehicle and a backend that offers a user interface for the creation of campaigns and visualization of analysis results.



- Enables customizable and configurable surveys
- Delivers data on demand and in real-time
- Is offline useable through buffering and upload strategy
- Can be seamlessly integrated into the OEM's existing in-vehicle and backend infrastructure
- Uses ODX-Data and UDS-protocols according to the ASAM and ISO standards
- Includes end-to-end security
- Is data privacy enabled

Created to minimize data handling efforts and data exchange costs, the E2E solution EB cadian Analytics includes pre-processing of in vehicle data and the possibility to configure and customize surveys.





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