Softing Automotive Cloud
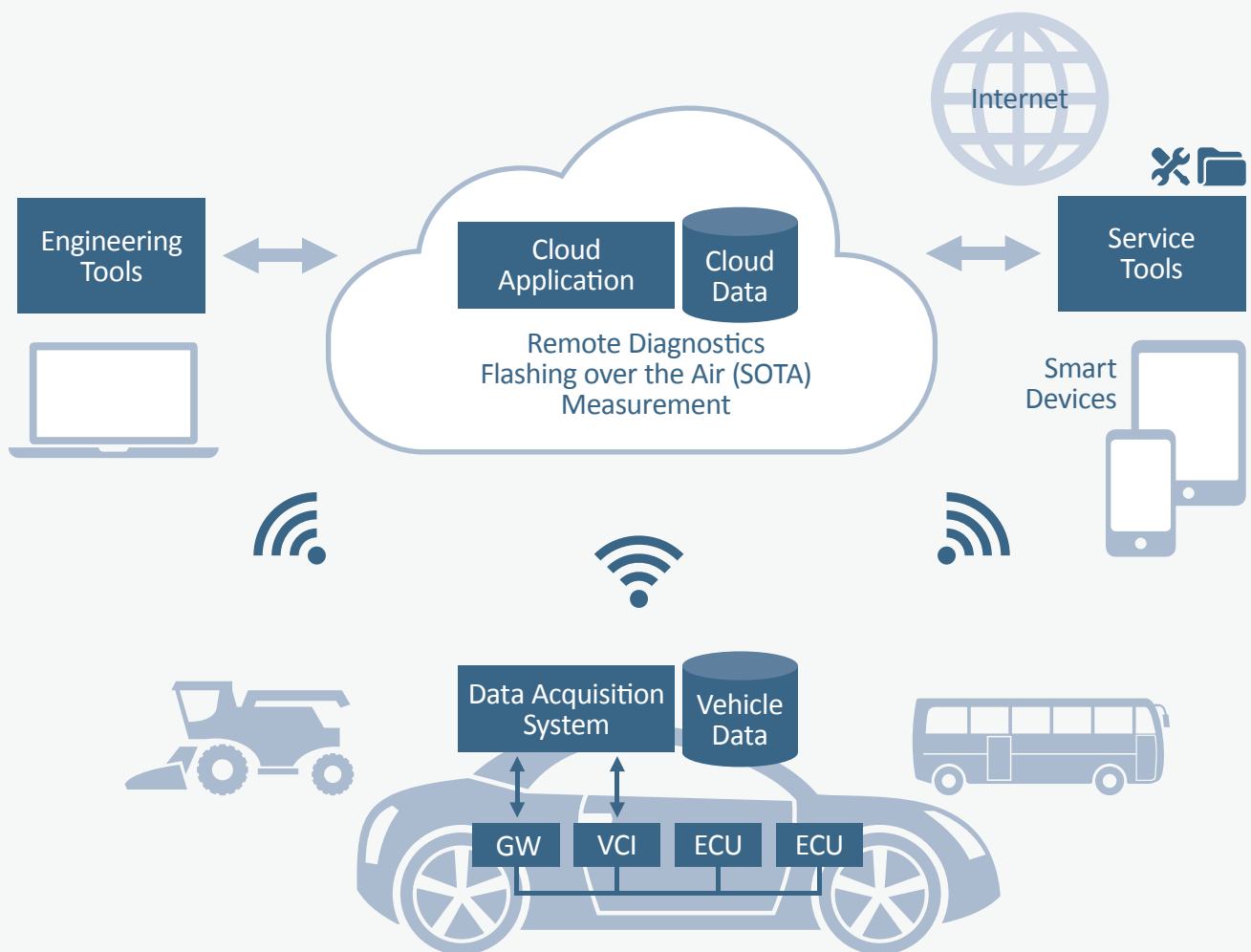
Remote diagnostics, software over the air (SOTA),
measurement, testing, communication

DATA CAPTURING

DATA PREPARATION

DATA ANALYTICS

Engineering
Tools

Internet

Cloud
Application

Cloud
Data

Service
Tools

Remote Diagnostics
Flashing over the Air (SOTA)
Measurement

Smart
Devices

Data Acquisition
System

Vehicle
Data

GW | VCI | ECU | ECU

AUTOMOTIVE
automotive.softing.com

Softing Automotive Cloud

Data capturing, data preperation, data analytics – optimize your data!

DATA CAPTURING	DATA PREPARATION	DATA ANALYTICS

ADVANTAGES AT A GLANCE
- Easy remote access via web service
- TLS encryption
- Data interpretation of individual vehicles or components and entire fleets
- Evaluation of data history
- Two-way communication between vehicle and user interface
- Optimized for unreliable connection environments

DATA CAPTURING

During data capturing the acquisition system located in the vehicle is responsible for collecting the appropriate vehicle data. A configuration makes it possible to store individual measurement values available in the vehicle as local data. The acquisition system is reduced in system requirements to run perfectly on a vehicle's embedded platform.

Either a connected gateway (GW) or a powerful vehicle communication interface (VCI) is used to transfer the collected data to the cloud for further evaluation. This transaction is based on widely approved communication standards with Transport Layer Security (TLS) encryption technology, improving the stability significantly regarding unreliable Internet connections.
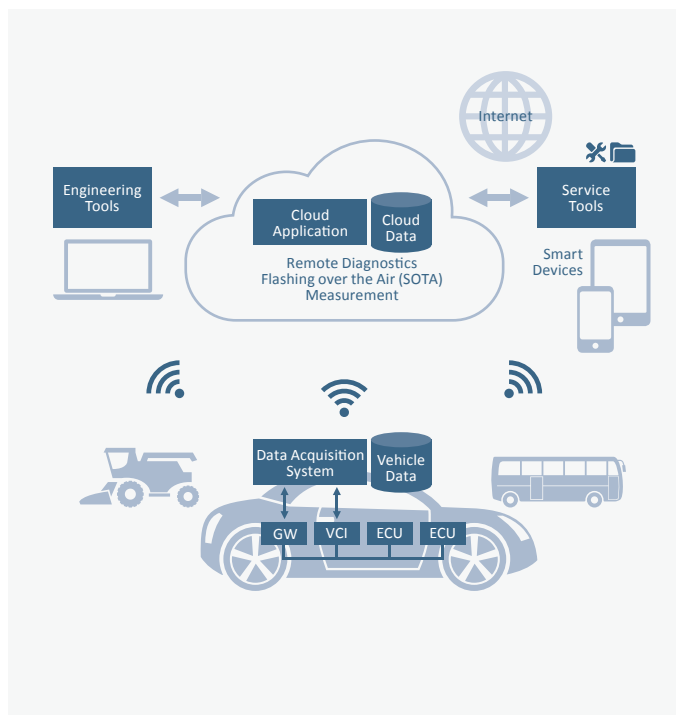
DATA PREPARATION

The cloud not only stores the transmitted data in a database, but also ensures its aggregation and further analysis by the cloud application. Various vehicle-specific profiles are used for identifying the correct type of data, allowing simple interpretation.

Besides receiving vehicle data the cloud application also supports the execution of actions (e.g. diagnostic tasks) triggered by inputs in the user interface and resulting in a data transfer to the vehicle. One example here is Software Update over the Air (SOTA).

DATA ANALYTICS

Transmitting a lot of data to the cloud results in big vehicle data. The Softing Cloud Solution allows the intelligent collection and evaluation of big vehicle data directly in the cloud. The data is processed and graphically displayed, showing correlations and presenting the required information in a convenient way. As a result the collected data becomes information.

The created information can easily be accessed via web services from any PC or mobile device. E-mails are a convenient way to alert the user about changes in the vehicle condition. In addition, the familiar on-site access to the vehicle data by experienced mechanics via a tool will still be possible in future.