VOLVO

Data Access Services

FMS Gateway

Reliable vehicle data is crucial for maintaining efficiency and uptime. Volvo provides extensive possibilities to share data with your existing systems – as well as the systems you are developing. A true benefit for operators, PTAs and third-party system suppliers.

FMS Gateway
There's a lot going on inside a bus. And the vehicle data is readily available for those who know how to capture it. With the FMS Gateway you have a stream of information on tap, ready to be used in your applications.

Standardized data format
The Volvo Buses FMS Gateway unit collects onboard data and converts it to ACEA FMS data format. Data is accessed via the onboard interface where the customer can connect their own hardware to obtain the continuous data stream from the connector interface.

FMS standard data for free
Data can be used onboard and/or sent to customer backoffice systems by the customer hardware. With the FMS Gateway there is a standard dataset
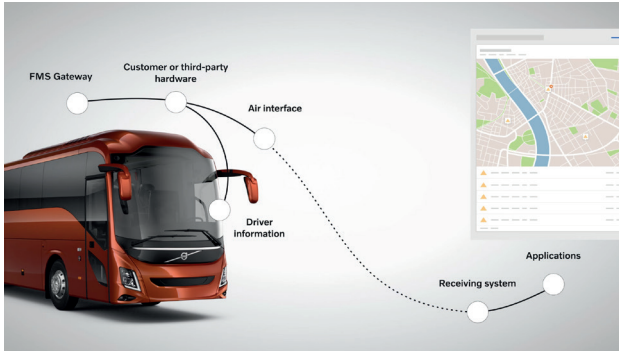
available – free of charge and included with hardware. In addition there are two extended datasets – which can be purchased with one-time payments. The extended datasets give more details and in-depth information on important vehicle parameters.

FMS Gateway at a glance
• Data retrieved from physical connector on the vehicle
• FMS Gateway unit. Customer or third-party hardware needed
• Continuous data stream
• ACEA Bus FMS v4 + extended data set
• Activated via dealer
• Standard data is free. One-time cost to un-lock extended data

How it works

Connectivity can be easy. Plug in the FMS Gateway and the data is there. By default, you are provided with a standard set of data (FMS Standard) right at the hardware connector. Additional parameters focused on electromobility can be added by purchasing extension packages.

FMS Gateway packages

Volvo collects, processes and converts connected vehicle data to a standardized format, providing better possibilities to integrate into customer systems in a multi-brand fleet scenario and achieve interoperability.

Standard
ACEA FMS Standard v4 (work ongoing v5). Included with hardware FMS Gateway.

Vehicle status
Alternator, brakes, clutch, cruise control, doors, coolant temp, etc.

Energy/Fuel data
Fuel consumption, fuel level, SOC, remaining energy, etc.

Driving data
Time driving, vehicle speed, odometer, tacho data etc.

Telltales
~ 40 different telltales.

Extended
Extended dataset focused on electromobility. Unlockable for a one-time cost.

Vehicle status
HVAC status, fuel heater status, windscreen wiper status, etc.

Energy consumption
Energy consumption 600V/24V, energy consumption motor, HVAC energy usage, instantaneous energy consumption h/km, total energy consumption.

Charging data
Charging status, charging power, time to fully charged, etc.

Extended Plus
Further extended dataset focused on electromobility. Unlockable for a one-time cost.

Vehicle status
Battery coolant temp, motor coolant temp

Power data (ESS Power)
Incoming and outgoing power values (throughput) in the ESS battery pack, 20 to 120 power values per report and minute.

Please contact your Volvo representative for more information.

volvobuses.com