

Data notice ("Pre-contractual information")

In accordance with the transparency requirements under Article 3.2 of the EU Data Act¹, this document describes how the Connected Product generates product data, how it is collected, how you as a user can access it, and how it is used by Volvo Truck Corporation. Note that depending on the specific customizations, add-ons selected, technical progress, and additional services acquired, the types, frequencies and amounts of data gathered and processed may vary. This pre-contractual information and the Data Management Agreement ("DMA") is located at <https://www.volvotrucks.com/data-act>. Where information changes during the lifetime of the Connected Product, including any changes to the purpose for which the data are to be used from the originally specified purpose, this information will be updated at the previously mentioned location(s).

Connected Product: Volvo Trucks

The Connected Product is capable of generating data continuously and in real-time: Yes, data accessibility is described below.

The Connected Product is capable of storing data on-device or on a remote server: Yes, data accessibility is described below.

Data Management Agreement:

If Volvo and a buyer, lessee, or renter of the Connected Product have not entered into a Data Management Agreement, the earlier of (i) the use of the Connected Product and (ii) conclusion of a sales, leasing, rental or other relevant agreement for the Connected Product shall conclude the Data Management Agreement, located at <http://tsadp.volvotrucks.com/>. If the Connected Product is being (re)sold, leased, or rented, each seller, lessor, or rental provider must comply with the 'transparency obligation' outlined in article 3 of the EU Data Act. This requires the seller, lessor, or rental provider to provide this pre-contractual information for the future user to exercise their data access rights under the EU Data Act and to be provided with Volvo's standard Data Management Agreement.

Data in scope:

In scope for the sharing obligations under the EU Data Act is data that is "raw" or "pre-processed" (raw data is unprocessed, automatically generated data points, while pre-processed data is modified to be understandable and usable for further analysis). The manufacturer of the Connected Product and/or data holder might also have opted to voluntarily share inferred or derived data (refined data due to being the outcome of processing beyond pre-processing). Such voluntary sharing does not alter the manufacturer's or data holder's classification of the data as inferred or derived, and the sharing status is at the discretion of the manufacturer and data holder, respectively. Data classified as trade secrets or security-related data might be subject to additional non-disclosure and safeguard measures required to be fulfilled.

Indirectly accessible data (readily available data under EU Data Act articles 4.1 and 5.1) - The Connected Product may be capable of generating the following product data which might be indirectly accessible as readily available data. Not all data elements are generated and collected for all individual products.

User requests for data access can be initiated by contacting your local dealership to arrange a Volvo Connect account. Please visit <https://www.volvotrucks.com/en-en/dealer-locator.html> for information and contact details. If you have a Volvo Connect account you can access the API manager directly. The specific API for accessing Data Act product data is as set out at <https://www.volvotrucks.com/data-act>.

Third party requests for data access can be initiated via the data access request tool: <https://dart.volvogroup.com/>.

Product data can become readily available data in two situations:

- 1. Data Collection by Volvo for Volvo Purposes (see table below).** This collection is specifically designed for Volvo's Purposes². The scope of the Data Collection for Volvo Purposes is determined by Volvo and scope of data collection (which Connected Product and what data), volume, frequency and collection will vary over time and differ between specific Connected Products.

¹ Regulation (EU) 2023/2854 of the European Parliament and of the Council of 13 December 2023 on harmonised rules on fair access to and use of data ("Data Act")

² Volvo Purposes: (i) conducting Product and Services research and development to enhance, maintain, and develop new Products and Services, (ii) solving quality issues, (iii) performing accident research investigations, (iv) managing warranty, contract, or regulatory compliance surveillance (such as product liability), (v) marketing Products and/or Services, (vi) performing proactive maintenance, (vii) enabling battery monitoring and diagnostics, (viii) updating the Information Systems with accompanying software (including providing over-the-air updates), (ix) the development, training, and monitoring of artificial intelligence systems and machine learning models for the Volvo Purposes, including, without limitation, large language models, predictive analytics, autonomous driving algorithms, and (x) any additional purposes further described in the applicable Privacy Notices and/or relevant Service Descriptions (as applicable).

2. **Additional Service Data Collection.** If the user has purchased additional digital services from Volvo, Volvo may collect additional data, referred to as Additional Service Data Collection, as a result of these services. The specifications for each service will provide detailed information regarding the types of data that will be collected and the procedures for the user to request access to this data. Please visit <https://www.volvotrucks.com/en-en/services/fleet-management.html> for more information on available services.

Data Collection by Volvo for Volvo Purposes - Note that the data below are examples and might not be collected from your specific product. What data is available for a specific vehicle can be provided in conjunction with a data access request

Format and estimated volume

Format: As the data is collected for Volvo's Purposes, the format is normally accumulated / binned data rather than instantaneous for a certain point in time. The data made available is typically structured into JSON format to facilitate readability and interoperability.

Volume: Will vary depending on product and over time. Depending on the type of data elements, the size of the data elements may vary between a few bytes for simple data elements and several megabytes for complex data elements.

Collection frequency: Data collection frequency depends on the readout from the specific product – typically weekly but varies from hourly to weekly, and even up to monthly. Exceptions might apply.

Access & retention

Data is made accessible over API in 2 weeks rolling window after a first data sharing request has been completed for a specific vehicle. As unpacking of collected data is done every 24 hours, the API will contain updated data with the same interval.

Data for the period before the data sharing request's completion can be requested as a manual one-off request (not covering any period before becoming the user of the Connected Product).

Vehicle/Product/Driver generated data connected to a certain Vehicle/Product may be processed for the entire expected life of the Vehicle/Product type, which could be up to 25 years (e.g. for research and development projects or to ensure that Volvo can manage product liability claims)

Type of data

Following function groups are represented, with some examples of data:

Engine,

- Engine speed
- Engine oil pressure
- Engine oil temperature
- Engine modes

Electric power supply, instruments, warning and information system,

- Charged energy
- Electric motor temperature and coolant level
- Traction battery voltage status

Power transmission,

- Gearbox modes
- Gearbox oil temperature
- Gear changing pattern counter
- Top Gear Mode, distance
- I-Shift Eco-roll, active time

Brake,

- Brake pedal usage, counter and distance
- Brake lining percentage

Wheel, steering,

- Steering wheel angle
- Tire pressure

Body, cab interior,

- Ambient temperature
- Retarder stalk position

Data directly accessible to the user - The Connected Product may, subject to the stated conditions and pre-requisites, be capable of generating the following product data which is directly accessible to the user:

Type of data	Format and estimated volume	Frequency	Terms of use and quality of service
<p>Fleet Management System data (see the FMS standard v.3 for more details).</p> <p>All FMS data for the specified version, raw/pre-processed and inferred/derived is available in the on-board FMS gateway.</p>	<p>The data is based on the FMS standard v. 3. and can be accessed in accordance with the standard.</p> <p>Volume depends on the read-out frequency applied.</p>	<p>Most of the values in the FMS standard are broadcasted cyclically at short repetition rates (e.g., 20 ms, 100 ms, 1000 ms), i.e. they are instantaneous readings providing the value at the time for the reading. Accumulated values like “total fuel used” are continuously updated and stored for the vehicle lifetime.</p>	<p>Access to the FMS data is subject to you as a user having purchased the FMS prekit / gateway as part of the vehicle configuration:</p> <p>FMS standard v.3: https://www.fms-standard.com/Truck/download/fms_document_ver03_vers_14_09_2012.pdf</p>
<p>Tachograph data in accordance with Regulation (EU) No 165/2014 of the European Parliament and of the Council of 4 February 2014 on tachographs in road transport.</p> <p>Raw/pre-processed and inferred/derived is available in the tachograph.</p>	<p>In accordance with the Tachograph regulation.</p>	<p>In accordance with the Tachograph regulation.</p>	<p>Access to the Tachograph data is subject to you as a user having purchased the Tachograph as part of the vehicle configuration:</p> <p>Data can be downloaded using the company card or accessing the data over the ITS Interface.</p> <p>Tachograph regulation: https://eur-lex.europa.eu/eli/reg/2014/165/oj/eng</p>