

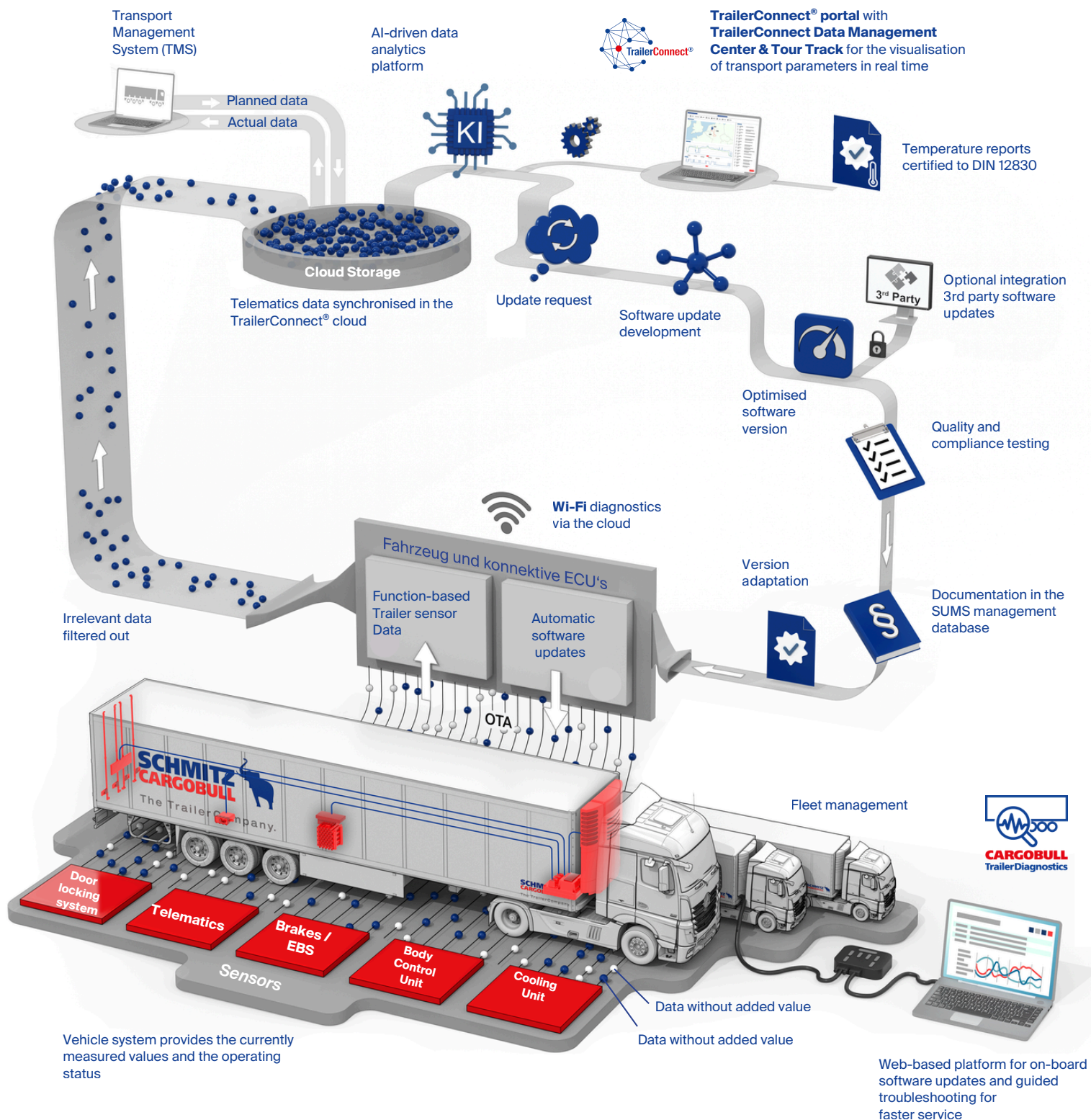
Cargobull Operating System

Real-time data for greater transparency and availability



A seamless dataflow

From the vehicle to the cloud and back
– for intelligent transport processes



The Cargobull Operating System

The digital ecosystem connects vehicles and digital services on a central platform

The Cargobull Operating System (COS) is a digital ecosystem that describes the end-to-end data flow between vehicle sensors, the cloud and digital services. It ensures that information is utilised transparently and efficiently throughout the entire transport chain – centrally provided via the TrailerConnect® portal. This enables real-time monitoring and remote control of the fleet, over-the-air updates and more efficient processes.

Your benefits



Higher vehicle availability

The seamless data flow enables proactive fault analysis, targeted repairs and over-the-air updates of vehicle components.



Transparency across your fleet

Through its open data platform, COS connects lorries, trailers and vans from different manufacturers, providing transparency across the entire fleet.



One platform for all data and services

Vehicle data, digital services and partner solutions are consolidated into a central platform and are all available in one place.



More time for your core business

AI-supported analyses, automated alerts and remote control functions facilitate rapid responses and reduce the manual effort involved in day-to-day operations.



Meeting requirements reliably

Automatically documented transport data, temperature reports and certificates help ensure compliance with customer requirements, quality standards and legal regulations.



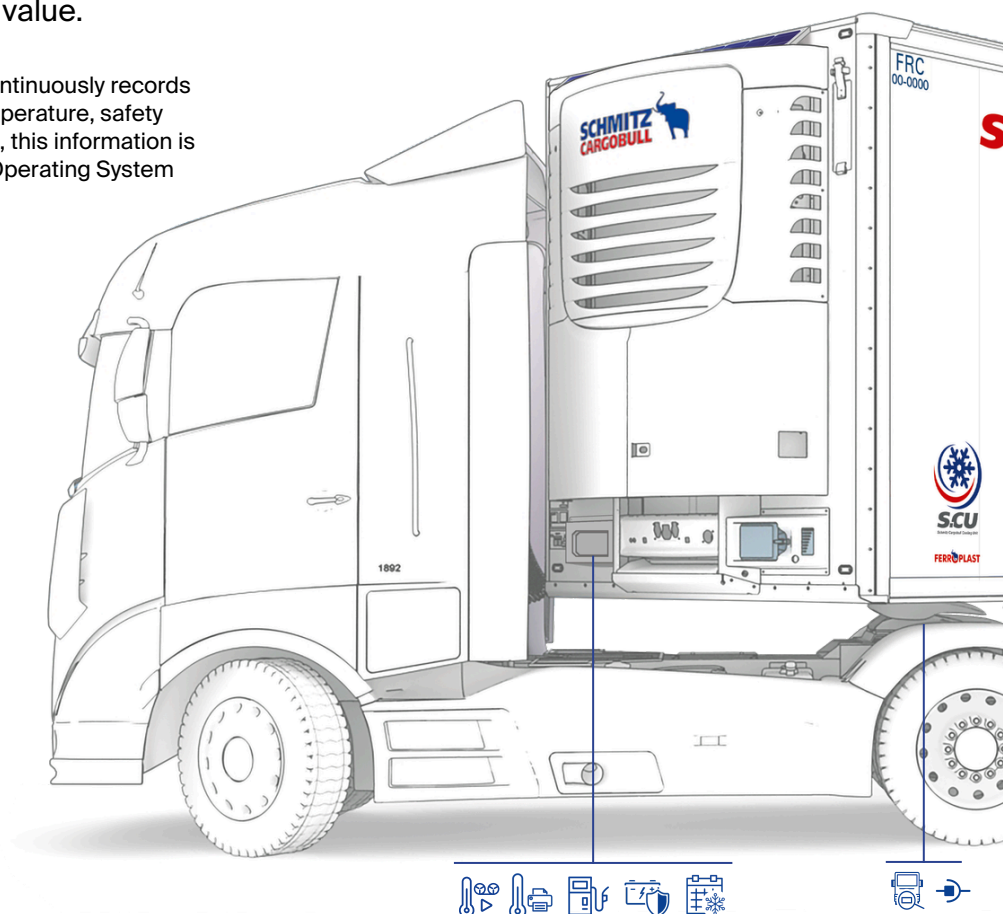
Future-proof platform

New services, vehicle functions and partner solutions can be seamlessly integrated, ensuring long-term investment security for your fleet.

Smart Telematics Sensors

More visibility. More control. More value.

The networked sensor system in the trailer continuously records relevant data on vehicle condition, cargo, temperature, safety and operation. Together with the control units, this information is aggregated in real time within the Cargobull Operating System and intelligently analysed.



Vehicle status



Location and Tracking

Full transparency regarding the location, movements and downtime of your vehicles



Motion sensor

An acceleration sensor in the telematics control unit detects when the vehicle is stationary or in motion



Wi-Fi

A Wi-Fi interface integrated into the control unit enables the vehicle to be monitored and operated using the beSmart app



EBS operating data

The connected braking system transmits status, operational and diagnostic data such as axle load



Brake pad wear indicator+

Brake pad wear sensors monitor brake wear, including wheel position



Coupling sensor

By monitoring the brake supply pressure, a coupled tractor unit is reliably detected



Tyre Pressure Monitoring System

Sensors fitted to the rims measure tyre pressure and temperature and transmit this data to a receiver in the control unit



Speed and precision odometer

The precise mileage is calculated using a sensor and GPS. Even when the EBS spiral cable is not connected



Tractor unit detection

A receiver control unit on the front wall uniquely identifies the transponder on the tractor unit



Telematics battery

The telematics battery, which can be heated during charging, ensures standby times of up to four months



Axle load

Continuous recording and transmission of the current axle load for greater transparency regarding loading and vehicle utilisation

The availability of the data and functions shown depends on the vehicle type, specification and sensors fitted.



Safety & Anti-theft Protection



TAPA* TSR1 mode

Monitoring of transport in accordance with the TAPA* standard is activated via the telematics portal



Body Protect Alarm System

Embedded electrical circuits in the bodywork trigger an alarm in the event of break-ins or damage



Acoustic alarm system

An acoustic alarm concealed within the body, which alerts to break-ins, theft and sabotage



Sabotage mode

Detects attempts at sabotage by third parties on all the trailer's smart components



Immobiliser

The immobiliser with PIN code activates the brakes and prevents the trailer from moving without authorisation

Temperature & cold chain



Temperature monitoring

Up to four sensors to ensure an unbroken cold chain throughout the entire cargo compartment



Temperature printer

An optional printer on the front panel enables the printing of current and historical temperature data



Cooling unit operating data

Status, operating and diagnostic data are transmitted from the networked cooling unit



Tank sensor including display

A sensor integrated into the tank detects and monitors the diesel level in the cooling unit's tank, even when the refrigeration unit is switched off



Battery monitor

Monitors the cooling unit's battery and switches off power consumers in the event of a critical condition, including triggering an alarm



Temperature recorder

The telematics control unit and the cargo compartment sensors ensure temperature recording in accordance with DIN EN 12830



Interior monitoring

Two cameras provide visibility and document activities inside the vehicle



Door contact sensor

An electronic sensor integrated into the rear door monitors the status of the doors – even when the trailer is uncoupled



Door locking system

An electronic locking system integrated into the rear door provides full access control and remote control via telematics

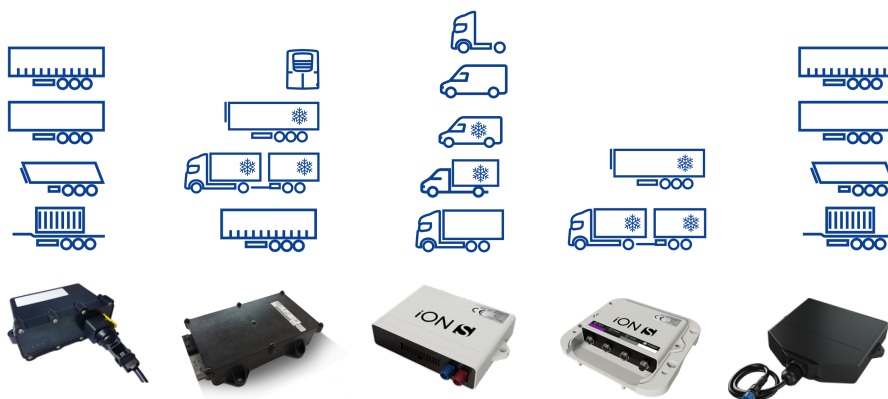
* TAPA = Transported Asset Protection Association

Cargobull FleetConnect. Ready for every situation.



Telematics retrofitting
for every type and every
manufacturer/brand

Telematics units for trucks,
trailers and vans.



Comparison of control units

	CTU	CTU Pro*	iON S Truck & Van	iON S Reefer	iON S Dry & Tipper
TrailerConnect® Funktion					
Vehicle Identification (VIN) / Licence Plate Number	X	X	X	X	X
Speed	X	X	X	X	X
Mileage	X	X	X	X	X
Standstill/Movement	X	X	X	X	X
Cooling Unit Status	X	X	-	X	X
EBS Data	X	X	-	X	X
Position Tracking	X	X	X	X	X
Fuel Level Monitoring	-	X	X	-	-
Wi-Fi Module for the "beSMART" Driver App	X	X	-	-	-
Integrated Temperature Recorder (DIN EN 12830)	-	X	-	-	-
Data Connection to the Cooling Unit	-	X	-	X	-
Data Connection to the Temperature Recorder	-	X	-	X	-
Two-Way Communication with the Cooling Unit	-	X	-	-	-
Two-Way Communication with TL4 Door Locking	-	X	-	-	-
Data Export and Transfer to Third-Party Systems	X	X	X	X	X
Tyre Pressure Monitoring System (TPMS)	X	X	-	X	X
Schmitz Cargobull Temperature Printer	-	X	-	-	-
Door Contact Sensor	-	X	-	X	X
Tractor Unit Detection	-	X	-	-	-
Coupling Sensor	-	X	-	-	-
Tank Sensor	-	X	-	-	-
LED Tank Level Indicator	-	X	-	-	-
Cooling Unit Battery Monitoring	-	X	-	-	-
Control Unit Hardware Specifications					
SIM	Embedded SIM	Embedded SIM	Integrated eSIM**	Integrated eSIM**	Integrated eSIM**
Protection Rating	IP6K9K	IP6K9K	IP20	IP69	IP65
GPS/GPRS Antenna	Integrated	Integrated	External	Integrated	Integrated
433 MHz Antenna (TPMS Receiver)	Integrated	Integrated	External	External	External
Battery Type	Lithium-Ion Battery	Lithium-Ion Battery	Lithium-Ion Battery	Lithium-Ion Battery	Lithium-Ion Battery
Integrated Battery Heating	X	X	-	-	-
Reporting Interval (Ignition On)	5 - 15 Min.	5 - 15 Min.	5 Min.	5 Min.	5 Min.
Reporting Interval (Ignition Off)	1h - 24h	15 - 180 Min.	60 Min.	15 - 60 Min.	Configurable
Reporting Interval (Rail/Intermodal)	-	-	-	-	30 - 60 Min.

* The CTU Pro is available as an upgrade for all trailers

** Plus nanoSIM socket

 Additional hardware required

Connect your fleet. Keep track of everything.

Quick and easy telematics retrofitting for every need.

Retrofitting refers to the process of adding telematics hardware to existing vehicles. This enables vehicles from Schmitz Cargobull and other manufacturers to transmit data to TrailerConnect® as part of a telematics contract.

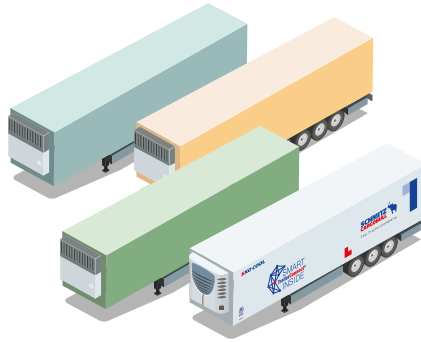
Your benefits

Retrofitting makes your fleet fit for the future.



Retrofitting existing vehicles

TrailerConnect® FleetConnect retrofits existing vehicles with telematics and sensor technology as required, or adds individual functions to ensure full transparency.



Mixed fleet on a single platform

TrailerConnect® FleetConnect enables comprehensive fleet management via the TrailerConnect® portal, regardless of manufacturer or make.



Connecting the entire fleet

With TrailerConnect® FleetConnect trailers, lorries and vans can be connected via a single provider, enabling end-to-end transparency across the entire fleet.

Retrofitting is simple.
Four steps to a unified database.



**Contact your Service
Sales Manager**



**Select the appropriate
retrofit packages**



**Installation by a
service partner**



**Start benefiting from
digital services straight
away**

TrailerConnect® portal

The platform for data integration, live tracking and trailer services

You can manage your fleet's transport data at a glance and access additional functions. In the TrailerConnect® Data Management Center, you can configure data exchange with third parties and start planning and managing your routes in TrailerConnect® TourTrack. If required, you can also use the portal to monitor the status of your trailer fleet, compliance with the cold chain for temperature-controlled transports, and transports carried out in accordance with specific safety standards.



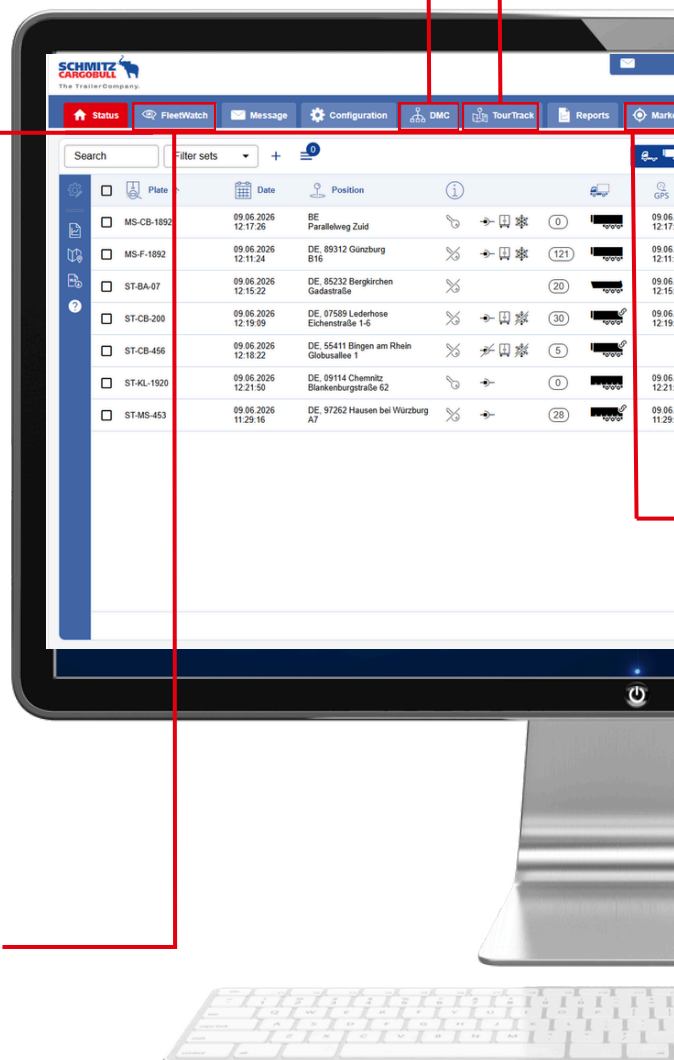
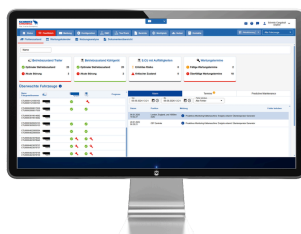
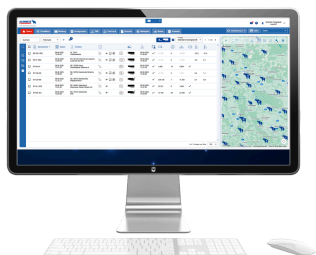
TrailerConnect® FleetTrack Real-time fleet visualisation

- Real-time display of the position and availability of trucks and trailers – regardless of the telematics hardware used
- Comprehensive notification and alert configuration, including Phonebot calls in the event of critical errors
- Personalised reporting and a history of all events, positions and temperatures



TrailerConnect® FleetWatch Real-time monitoring of fleet status

- Full transparency regarding fleet condition, maintenance requirements, usage and performance
- Identify maintenance requirements at an early stage, prevent cargo damage and reduce downtime
- Proactive monitoring detects potential faults at an early stage and provides clear recommendations for action





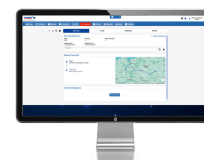
TrailerConnect® Data Management Center Central integration of various systems

- Infrastructure and consolidation platform for all telematics systems and data
- Customisable and secure configuration of data streams
- Visualisation of the entire transport network – including subcontractors



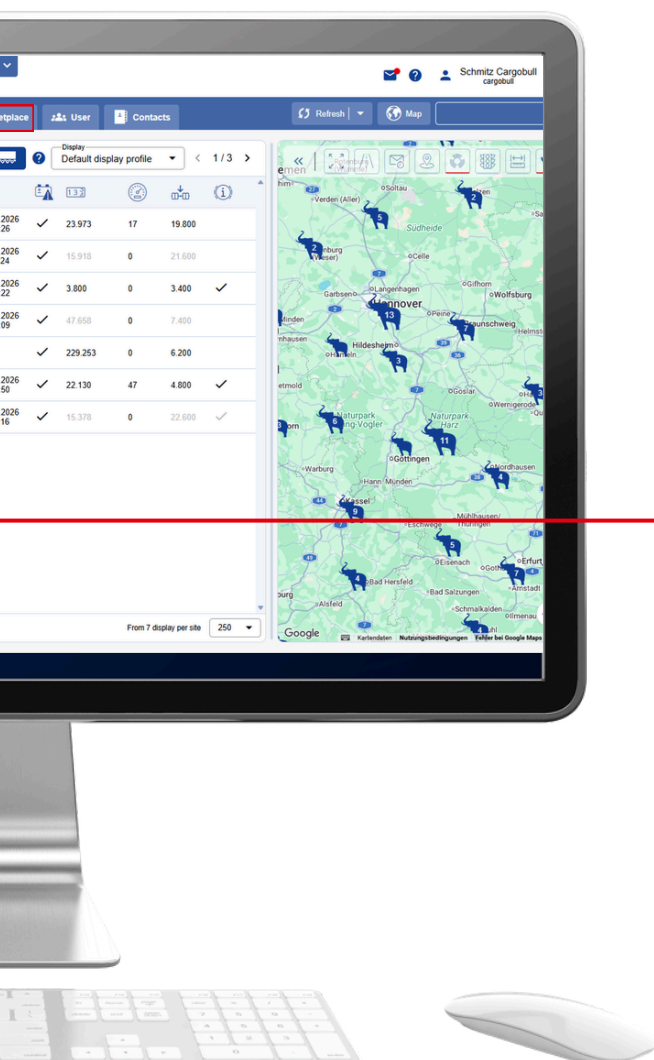
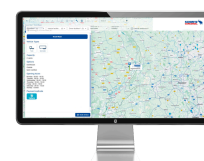
TrailerConnect® TourTrack Track vehicles and share transport data on an order-related basis

- Targeted and selective data sharing for each tour, e.g. to any real-time visibility (RTV) platforms
- Tour-based real-time monitoring, including estimated time of arrival (ETA)
- Automatic generation of job-specific temperature reports



TrailerConnect® Marketplace Book additional services along your route

- Find and book services from selected third-party providers via the TrailerConnect® Marketplace – all in one central location
- Conveniently organise relevant services for your journey via the TrailerConnect® portal – without having to switch between different platforms

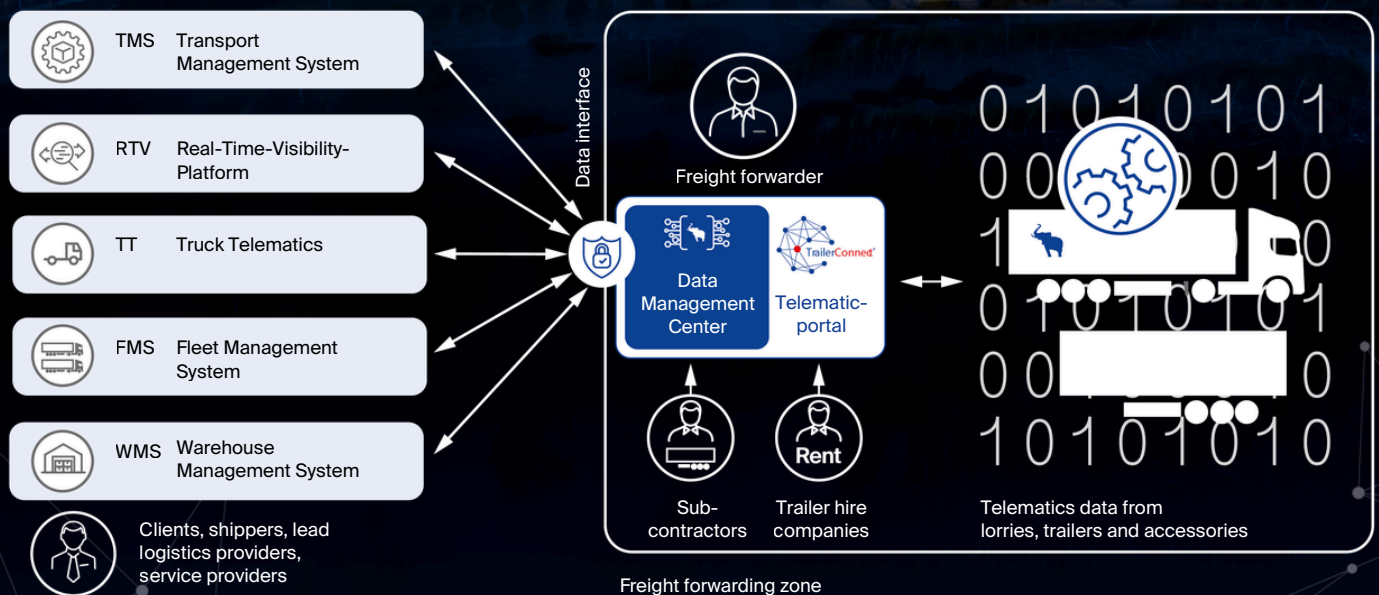
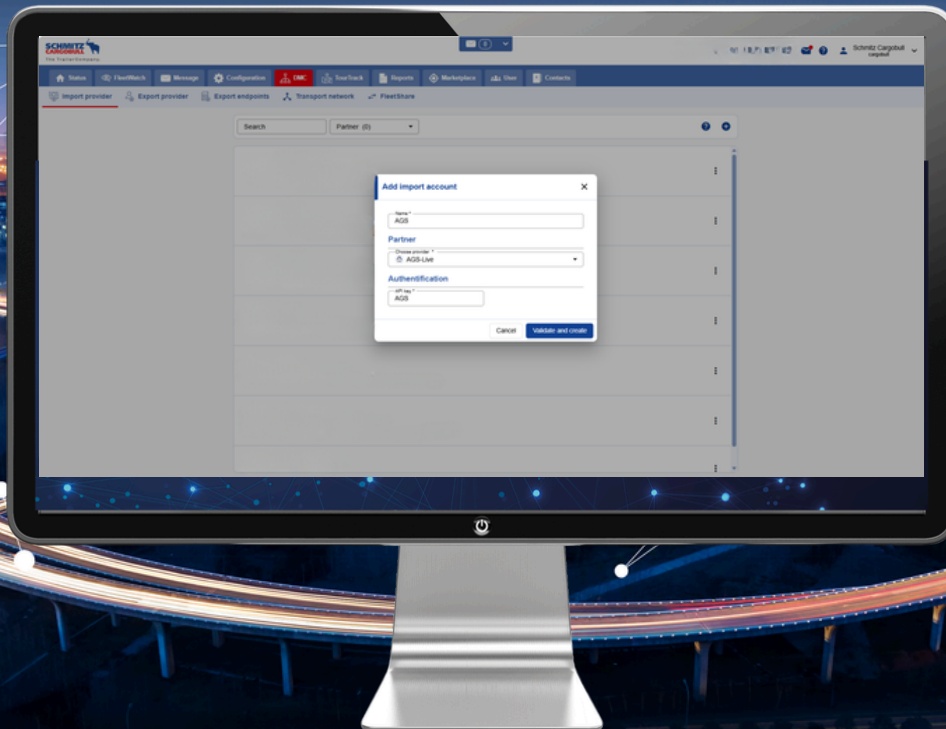


TrailerConnect® Data Management Center



Share data securely. Maximum reliability.

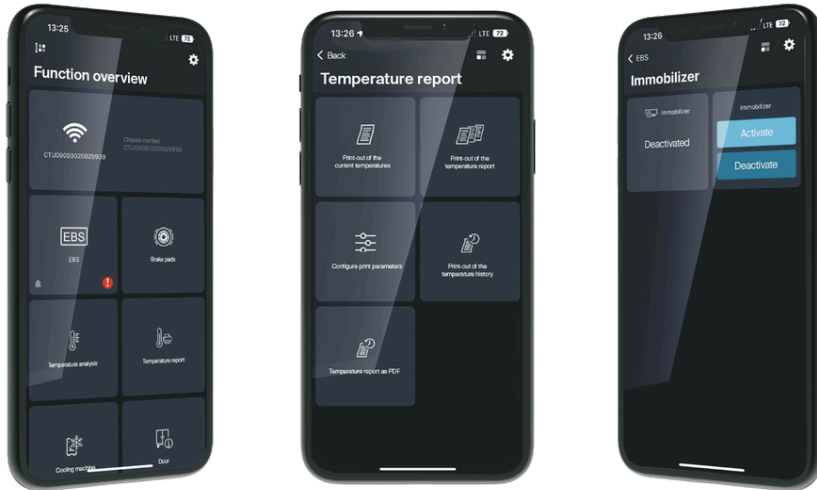
The Data Management Center brings together all relevant system data from day-to-day transport operations on a single platform. Relevant information is made available to dispatchers and partners via flexible interfaces, exactly where it is needed.



The TrailerConnect® Data Management Center (DMC) acts as a central data hub within the transport process. It collects trailer data from TrailerConnect® and makes this available via standardised interfaces to the systems and partners that require it for their processes. Transport management systems, visibility platforms, fleet management solutions and warehouse management systems can all access the same database. At the same time, hauliers, subcontractors and trailer hire companies receive exactly the information relevant to their tasks.

The apps - Everything at a glance on the go

For Drivers



beSmart App

Always kept informed
while on the road

Keep an eye on trailers and shipments

- Prevent breakdowns with brake pad wear monitoring and tyre status checks
- View axle load and avoid overloading
- Activate/deactivate the immobiliser
- Activate/deactivate the alarm system
- Rear door locking system: lock and unlock rear doors by entering a PIN on your smartphone
- Create digital temperature reports in the app and share them with third parties
- Real-time status updates

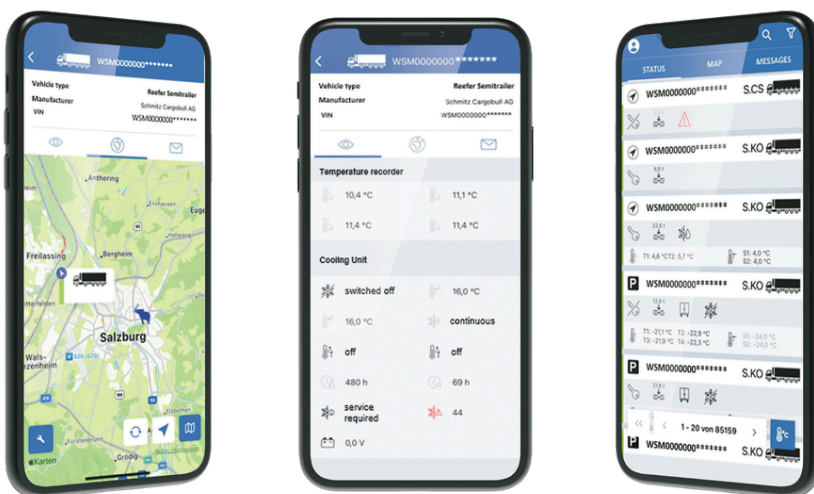


beSmart



App available in
22 languages

For Fleet Managers & Dispatchers



beUpToDate App

Keep an eye on your fleet on the go

Mobile fleet and vehicle monitoring

- Information on the condition of vehicle components, such as tyre pressure and brake pad wear
- Mobile configuration of the cooling unit: full control over the refrigeration unit thanks to mobile setpoint adjustment of the operating mode and monitoring of interior temperatures
- Notifications and alerts sent directly to your smartphone for a quick response
- Integrated service partner search: search for a suitable garage directly from your smartphone



beUpToDate



App available in
22 languages



175,000+ active telematics units ex works



Schmitz Cargobull is the leading manufacturer of semi-trailers for temperature-controlled freight, general cargo and bulk goods in Europe, and a pioneer in digital solutions for trailer services and improved connectivity. The company also manufactures transport cooling units for refrigerated box body semi-trailers for temperature-controlled freight transport.

With a comprehensive range of services from financing, spare parts supply, service contracts and telematics solutions to used vehicle trading, Schmitz Cargobull supports its customers in optimising their total cost of ownership (TCO) and digital transformation.



Good Distribution Practice in der Pharma-Industrie

- Anforderungen der EU-GDP-Richtlinie erfüllt
- Qualitätssicherungssystem und Dokumentation geprüft
- Turnusmäßige Überwachung (alle 2 Jahre)

tuvsud.com/is-gmp-gdp



BEST OF NEW TRANSPORTATION



You can rely on this:

Schmitz Cargobull Premium Services for Maximum Uptime

Tailored financing and insurance solutions from an industry expert

Second Hand – First Class
Quality-Tested Used Vehicles

TrailerConnect® telematics and digital services for smarter logistics

DR. COOL
AI Repair Assistant

TrailerConnect® telematics and digital services for smarter logistics

Full service for trailers, cooling units, and tyres

Cargobull Mobile Service Van

1,400 service partners: your professional workshop network

24 h Cargobull Euroservice roadside assistance across Europe

Genuine spare parts online, delivered within 24 hours

Spare parts you can count on for timely repairs



Click or Scan

for more information on our exclusive services. Learn more here.

Schmitz Cargobull AG
Bahnhofstraße 22
48612 Horstmar

E: info@cargobull.com
T: +49 (2558) 81-0
www.cargobull.com