

ALWAYS KEEPING AN EYE ON  
YOUR CARGO.

The TControl trailer surveillance system



## KEEPING YOUR ASSETS IN VIEW AT ALL TIMES



You are not always exactly where your trailer is standing. To help you keep full control, Krone has developed TControl. The TControl telematics functionalities ensure that you are informed 24/7/365 about the status of your asset and of the goods loaded on the trailer. You have constant access to the position, the temperature and the technical information – from wherever you are.

Made especially for the requirements described to us by our customers, TControl not only saves you time and money but improves the information process of your company. You have the security that your valuable goods are under control.

**idem.**  
transport solutions

TControl is a cooperative venture of KRONE and idem transport solutions.

**NIC**  **base**

NIC-base is a cooperative venture of KRONE and kasasi.



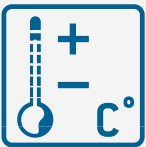
**Knowing where the trailer is in transit.**  
**TControl GPS.**

By having position information, the dispatching division knows where all your assets are, where they are headed, where they are held up and how long it will be until they reach their destination. Information giving you the lead!



**Your load is safe and sound.**  
**TControl door information.**

Whether using the standard door contacts of the trailer, installing special RFID door switches which can not be manipulated or interfacing in door locking systems especially for high value transports, the door surveillance kit puts you in the drivers seat for load security.



**Cool Quality at the click of a mouse.**  
**TControl temperature control.**

Monitoring temperatures on the trailer via datalogger units was yesterday. Online status information of temperature probes, reefer status, operating mode, alarm codes and set points and even interactive control of the refrigeration units from the office is TControl. Data stored 18 months for fulfilment of the EU regulations, quality online – live in action!



**Knowing the technical status of your fleet.**

**TControl technical package.**

By integrating to the EBS of the trailer via the CAN interface, TControl speaks with all standard braking modules and extracts data about mileage, load weight, speed and brake pad wear. Your fleet is good hands!




















**Who is pulling what?**

**TControl truck detection with Truck ID.**

By bringing the truck and the trailer together to form a transport unit, your dispatching unit will always know “who” is pulling “what” and can check this information on a historical basis. Knowing how your fleet is operating and bringing everything together for the full picture.

# INDUSTRY BENEFIT THROUGH TCONTROL.

	Telematics function	Your benefit
<b>Refrigerated transport</b>		Reliable location determination; optimal dispatching.
		Anti-theft device; <b>Quality assurance.</b>
		Current and historic temperature data with <b>data recording</b> ; access to refrigerating machine.
		Trailer condition information; optimal maintenance planning.
		Assignment of tractor to trailer for the <b>complete documentation of your orders.</b>
<b>Leasing company</b>		Reliable location determination; <b>optimal dispatching; pay-by-use-systems.</b>
		Access to the refrigerating machine allows shut-off by rent exceeding or theft.
		Current trailer condition information; optimal maintenance planning; <b>assignment of wear to the leaser.</b>
		Assignment of tractor to the trailer; <b>rental monitoring.</b>
		<b>Both lessor and lessee profit from the advantages.</b>

	Telematics function	Your benefit
<b>Pharmaceutical transport</b> <small>(high-quality and susceptible goods)</small>		Reliable location determination; optimal dispatching.
		Anti-theft device; <b>Quality assurance.</b>
		Current and historic temperature data with <b>data recording</b> ; access to refrigerating machine.
		Trailer condition information; optimal maintenance planning.
		Assignment of tractor to trailer for the <b>complete documentation of your orders.</b>
<b>Automobile supplier</b> <small>(Just in Time)</small>		Reliable location determination; <b>optimal dispatching and Just-in-time planning.</b>
		Current trailer condition information; <b>optimal maintenance planning.</b>
		Assignment of tractor to the trailer.

## TCONTROL WORKS WITH:

## NIC BASE – THE HARDWARE INDEPENDENT TELEMATICS DATABASE

### FLEETBOARD®

#### DispoPilot

Information from the trailer, especially refrigeration alarms and critical load status data can be relayed to the Fleetboard Dispopilot in the truck. Customers with this set-up can integrate the driver in the information process and gain extra and valuable time when reacting to problems with your load.



#### Extra service

TControl by Krone allows you to interface directly with the reefer unit on the trailer. Not only can you receive status information about temperatures, set points and operating mode. TControl gives you the power to change values on the Carrier unit in transit. A trailer standing on the weekend with valuable goods loaded and a temperature problem. Log in and change the set point from home – saves you time and hassle.



#### Trailer Analyser

You want more information about your EBS system? Relay the recorded data from the trailer directly to the trailer analysis tool by BPW and receive professional and detailed reports from the people who know what to look at. Driver behaviour, brake-use analysis and general operating status – BPW gives you in depth information.



NIC Base is a database structure which integrates various hardware solutions on the trailer and neutralizes them to offer all systems in one data structure. You have TControl on your new Krone trailers, hardware from another producer, trailers in long term lease situations or short term rent? And 4 different hardware solutions with 4 different software tools in the web? NIC Base collects the information, stores it in one central and independent hosting surrounding and offers you various options from here. You want all information in your in-house tool? NIC Base sends you all 4 systems in one interface. Your IT division saves time and effort – and money! Or analyse the data on the NIC Base web tool. All the hardware solutions in one platform.

- Brings various hardware solutions together
- “Neutralises” the information and provides a NIC standard interface
- Gives developers the opportunity to create their own applications .
- Gives you the power to put together your fleet independent of your Telematics system

„Nowadays, it is a must to differ oneself from the others through quality and class. TControl offers us this possibility. Dachser has in the area of perishables logistics the reputation of a market leader if it comes to fleet quality and refrigerating machines. TControl enables us to give our customers detailed information about the status of their goods and to document the compliance of the cold chain. Whereas Dachser also employs TControl by the tracking of vehicle units apart from food logistics.“

**DACHSER**  
Intelligent Logistics

Elmar Fünfer,  
Technical manager/Technical procurement  
Dachser GmbH, Kempten

„TControl by Krone offers us the opportunity to link nthe trucks and trailers in our fleet together through the Telematics integration. Critical messages from both the truck and the trailer are visualised on the Dispopilot by Fleetboard . This is especially helpful for temperature alarms, allowing the driver to react very quickly and allows for us to improve the quality and security of our transports and offer even better services to our cutomers.“

**dreier**

Hans Peter Dreier,  
Chief Executive Officer,  
Dreier AG, Suhr (CH)

„TControl represents a unique all-in-one solution for Euro-Leasing. We offer our customers data which has been determined by TControl about vehicle usage and maintenance online. At the same time our customer can integrate data of his own telematics systems in detailed form in his own individual customer portal thanks to the NIC-base. By this we improve the competitiveness of our rental customers and strengthen sustainable the own position as one of the leading German full service provider for fleet management.“









**MAN | Rental**  
**EURO**  
**LEASING**  
Immer in Bewegung

Ralf Faust,  
Chairman of the management board  
Euro-Leasing GmbH, Sittensen

 **KRONE TELEMATICS**

- Continuous monitoring of temperatures and operating data.
- Documentation of data for 18 months.
- Surveillance of the area around parked assets (Geo-fencing).
- Transparent overview of costs.
- Distance control, determination of driving, loading and unloading times.
- Automated sealing.
- Simplified dispatching through the latest fleet positions.
- Regular reports about the wear and tear on your equipment.
- Easy installation on existing assets – no unnecessary down-time.
- Live position and driven routes.
- Web-based data access.
- Data integration into your own systems solutions via standard interfaces.

# THE DIRECT LINE TO YOUR TRANSPORTS.

	Curtain-sider	Dry freight	Reefer trailer	Container-chassis	Swap body
<i>TControl Cool</i>			  		
<i>TControl POS</i>		 			
<i>TControl POS W</i>					



The TControl Technical package offers detailed EBS information. Keep the equipment in your fleet in top condition by knowing how it is being operated. Brakes, mileage, load weight and more!



The Truck ID Package allows you to bring truck and trailer together through the standardised coupling process. A small chip informs the TControl system which truck has hooked up to which trailer and documents this in the data base structure. You can always see who pulled what where and when.

## Your contact person

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Your local KRONE sales representative

