THE SMART COLD CHAIN

Real-time connectivity, visibility and traceability for refrigerated transportation

Reduce spoiled goods through intelligent cold chain asset monitoring

Improper temperature control is among the top reasons why perishable goods are wasted in cold chain transport. Without a complete solution in place, cold chain fleets may struggle to meet strict food safety regulations and have a higher risk of spoiling loads. ORBCOMM provides fleets with the data and tools to reduce the risk of spoiled goods and help comply with regulations, while also reducing costs, increasing operational efficiency and improving customer service. ORBCOMM delivers end-to-end telematics solutions that enable comprehensive management and two-way control of refrigerated trailers and rigid trucks, containers and other assets in the supply chain on land, rail or sea.

A better cold chain: key benefits

Reduce claims
Around-the-clock temperature monitoring, automated alarms and two-way control allow for quick corrective action when issues are detected to help prevent spoilage, minimise losses due to claims and significantly reduce insurance premiums.

Make compliance easy
Simplify compliance with local and international food safety regulations and guidelines including GAMP® 5, HACCP, EN 12830, CE, RED and PTCRB, through the continuous collection and retention of temperature data that makes it easy to share proof of temperature whenever required.

Increase profitability
Optimise asset utilisation, turn times, trailer pools and tractor-to-trailer ratios with comprehensive fleet reports and geofences. Reduce detention and maintenance costs and minimise downtime.

Keep assets visible
Maintain contact with drivers and visibility of assets with optional dual-mode cellular and satellite communications, keeping fleets connected in areas where the cellular network is unreliable, unavailable or compromised by severe weather.

Streamline handoffs
Ensure loads maintain correct temperature setpoints when switching hands to preserve the integrity of the cold chain and protect your business from liability. Streamline the distribution of refrigerated cargo with arrival and departure notifications to minimise time spent at loading docks.

Reduce fuel costs
Save on fuel costs by identifying opportunities to optimise equipment operation and detecting issues such as fuel theft or improper invoicing.

Improve efficiency
Use sophisticated monitoring systems that connect directly to refrigeration units to gain two-way control and handle reefer functions remotely, so your driver doesn't have to.

Improve customer service
Build customer loyalty by providing them with shipment visibility so they can see delivery times, streamline load and unload crews, and speed up the distribution of goods.

"What really appealed to us is the highly intuitive software platform.

This allows us to generate numerous automatic reports for the maintenance of our refrigeration units, as well as associated alerts."

Transports EON, France

Key features

Flexible reporting
Access critical fleet and cargo status data anywhere from the cloud-based ORBCOMM platform, from our mobile app or right from your Transportation Management Systems (TMS) portal. Our flexible APIs and comprehensive third-party integrations seamlessly deliver rich trailer data to your existing dispatch or proprietary enterprise system.

Two-way commands
Direct integration with the leading refrigeration unit manufacturers, including Thermo King and Carrier, enable advanced temperature reporting, real-time alerts and remote reefer control. Change temperature set points and mode of operation, initiate a pre-cool or pre-trip inspection, power a unit and more—all from a centralised location.

Proof of temperature
Receive notifications when asset temperatures are optimal for loading or when they deviate outside specified parameters. Automate the collection and retention of temperature data, and store temperature records for up to a year to easily provide to authorities.

On-demand printed records
Deliver printed temperature records to provide proof of compliance using an integrated printer and large display.

Automated alerts
Get notified of sudden temperature fluctuations, equipment malfunctions, unscheduled stops, unauthorised door openings and more. Receive regular updates on operating mode, running hours, battery, fuel levels and more. Receive alerts via email or text to individuals or groups.

Multi-temperature compartment support
Connect to wired and wireless sensors, making the system ideal for multi-compartment trailers.

EBS trailer weights
Get real-time trailer weights, load/unload events and overweight alerts from EBS brake systems to improve cargo security, avoid empty trips and improve utilisation.

Temperature charts
See reefer temperature on a dynamic chart for a specific date range. Export temperature values to a .csv file for further analysis and to easily share data.

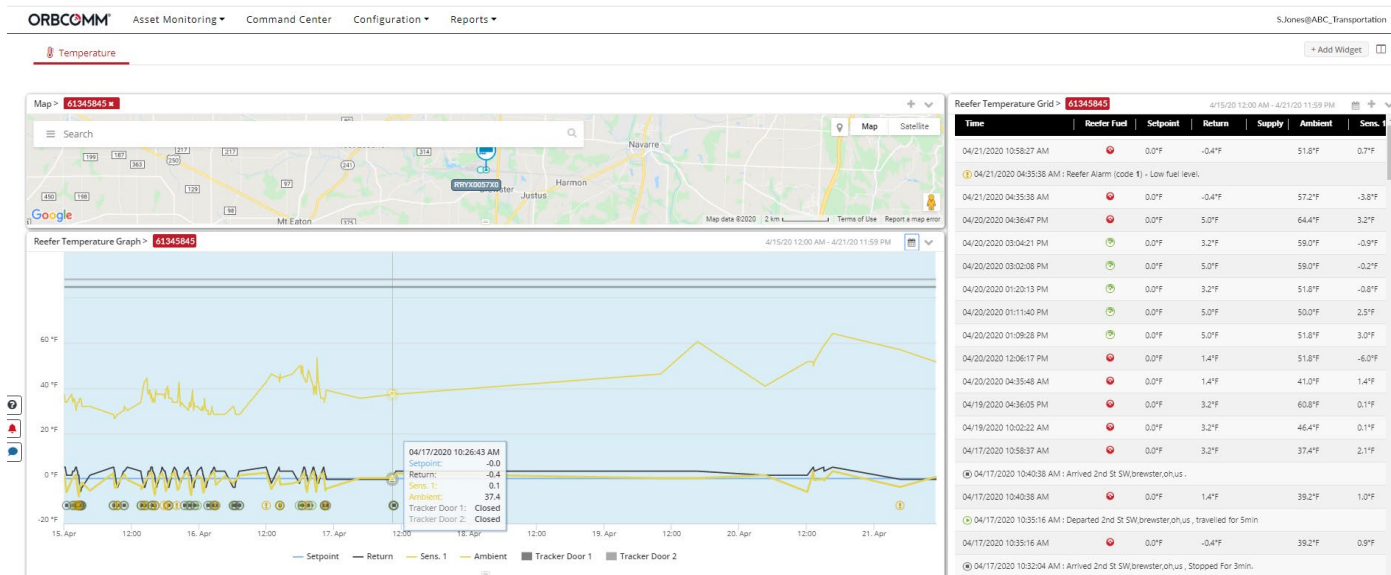## Reefer monitoring in the cab
Give drivers immediate insight into cargo status with apps on in-cab devices that provide a real-time view of reefer settings and temperatures with alert notifications.

Fuel analytics
Save money on fuel by optimising reefer operations, detecting theft and validating fuel purchases. Comprehensive reports allow you to assess performance for different refrigeration systems and identify reefer settings that help improve fuel economy.

Smart geofences
Receive automated departure and arrival notifications to streamline load and unload cycles, optimise trailer assignment, improve turn times and monitor for detention.

Dynamic temperature charts for specific dates make it easy to analyse performance.

Five reasons to choose ORBCOMM

1 Proven
Choose solutions that are proven through 25 years of operation and 500,000 assets in the field.

2 Seamless integration
We have unique integration with all major reefer OEM models, including Thermo King and Carrier, which enable real-time connectivity, 100% accurate temperature readings and two-way control at every point in the supply chain. Additional integration with TMS systems allows customers to get actionable trailer data from their existing dispatch application, eliminating the need to learn new software.

3 End-to-end
Our solutions feature proprietary, best-in-class technology and include intelligent IoT telematics devices, seamless satellite and cellular connectivity and a powerful management platform, all backed by end-to-end customer support through all aspects of deployment.

4 Ruggedised hardware
Select from different, ruggedised hardware solutions that house sophisticated technology to solve any temperature monitoring situation, from refrigerated rigid trucks to reefer trailers.

5 Single-source solutions
Eliminate the risk and complexity of sourcing multiple providers. Unlike our competitors, we provide integrated, proprietary end-to-end solutions for nearly every asset class. The devices, the connectivity and the platform are all designed to work together, and there's only one number to call if an issue arises.

The challenges and requirements within the cold chain can be trying for any fleet. As global leaders in industrial transportation IoT, **ORBCOMM has the solutions, experience and expertise** to connect your cold chain assets, protect your cargo and improve your operational efficiency.

Contact us today at info@orbcomm.com for information on our complete transportation offering, or **visit us at www.orbcomm.com**

Got trucks, trailers or containers too? We've got you covered!

With support for virtually every asset type—including in-cab driver safety and fleet management for trucks, as well as solutions for trailers, reefers and intermodal containers—ORBCOMM delivers the most complete, integrated transportation telematics solutions in the business. Visit www.orbcomm.com for information on our complete transportation offering.

ORBCOMM®

ORBCOMM is a global leader and innovator in the industrial Internet of Things, providing solutions that connect businesses to their assets to deliver increased visibility and operational efficiency. The company offers a broad set of asset monitoring and control solutions, including seamless satellite and cellular connectivity, unique hardware and powerful applications, all backed by end-to-end customer support, from installation to deployment to customer care. ORBCOMM has a diverse customer base including premier OEMs, solutions customers and channel partners spanning transportation, supply chain, warehousing and inventory, heavy equipment, maritime, natural resources, and government. For more information, visit www.orbcomm.com.

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