

# CASE STUDY: MULTINATIONAL TRANSPORT (REFRIGERATED DIV.)



OCTOBER 2020

[www.ako.com](http://www.ako.com)

**AKO**

# Multinational Transport (Refrigerated Div.)

## Challenge:

Monitor the entire chain of logistics and refrigerated transport, with geo-location of the refrigerated merchandise, in the event of an alarm due to a break in the cold chain.

### ■ CAPACITY

National and international express transport company with over **75 years experience**.

Fleet of more than **4,700 vehicles**.

**+1,200,000 customers** worldwide.

### ■ PROJECT

Achieve traceability of the E2E temperature to attract new customers and thus gain market share.

Meet the objective of multiplying business volume by 3 in five years.

### ■ PROBLEM

**40% of food sales** correspond to refrigerated, frozen or other products that are sensitive to storage conditions, which require daily transport guaranteeing temperature and moisture conditions. Around **33%** of the perishable products suffer deterioration during the supply chain until it is consumed.

**The monitoring and management of temperature alarms in the refrigerated transport division is key.**



Ensure the perfect preservation of transported refrigerated food



Monitor the entire supply chain



Maximum peace of mind for the freight transport and storage business

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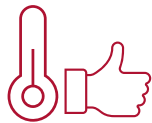
## Solution - Result:

At AKO we proposed a system to monitor the entire supply chain and record all temperature data.

### ■ SOLUTION

The 100% secure temperature & moisture logger with totally wireless **NB-IoT** AKODATA connectivity (24 hours / 7 days a week) allows the automated monitoring of the status of the products during transport and storage, with access to information through our monitoring platform **AKONET.Cloud**.

**AKONET.Cloud** enables Cell ID positioning, with an autonomy of up to 8 years, and supports temperatures up to to -40 °C and redundancy to ensure the integrity of the equipment.



Technical robustness of the solution resistant to temperatures of -40 °C



Reliability of the logging and monitoring system

### ■ RESULTS

Incorporating a continuous monitoring and recording system, alarm alerts and geo-location by Cell ID provided the following results:

100%  
Temperature  
data log



100%  
Alarms and APPCC



100%  
Monitoring the  
supply chain



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## Benefits of the solution

Our solution monitors the entire logistics chain and refrigerated transport, with geo-location (Cell ID) of the refrigerated merchandise, in the event of an alarm.

## AKODATA NB-IoT

Temperature and relative moisture logger with NB-IoT connectivity Sensor, monitor and wireless temperature and moisture recorder, solution for monitoring the conservation of the cold chain, avoiding health safety risks, as well as wastage and loss of stored products, and control the proper functioning of the refrigeration installations.



The connection with **AKONET.Cloud** allows you to monitor temperature and moisture conditions, thus knowing at all times the status of the installation and the preserved product. It also improves the quality and life of the stored product, setting up reports and receiving alarm alerts in case of any type of unforeseen event.



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## Benefits of the solution



Automatic and continuous temperature logging.



Moisture logging



**Alarms** in real time via e-mail and phone call. 24/7 Alarm System in case of exceeding the pre-established limits.



**Reports** weekly and / or monthly, suitable for internal audits or quality certifications.



**Reports** on demand to document incidents.



Indicators, reports and graphs oriented to **maintenance and quality with impact on the business.**



**Specific indicators** (kinetic mean temperature).



Direct device connectivity to the cloud that **does not interfere with the client's infrastructure** and IT security policies.



**Temperature and moisture monitoring Solution** for assets distributed in **multiple locations.**



Very easy to install and activate with **very fast deployments. No wiring.**



Scalable to thousands of devices.



Secure and unified access to **key information to integrate into operations.**



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