



CASE STUDY

DB Schenker's Successful Integration of Releye[®] Live Monitoring Data to Enhance Pharmaceutical Shipment Oversight

In the complex world of pharmaceutical logistics, where precision and care are paramount, the safe transportation of temperature-sensitive pharmaceuticals presents a set of unique challenges. The delicate nature of these products, often requiring specific temperature conditions to maintain efficacy, demands a sophisticated and tightly controlled process throughout the entire supply chain.

This article explores how innovative solutions, such as the integration of real-time data from Envirotainer Releye[®] containers into DB Schenker's IoT system, are revolutionizing the way we approach pharmaceutical logistics. From mitigating risks of product wastage to reducing environmental impact, working together to facilitate a seamless cold chain has never been more crucial in ensuring the continued availability and efficacy of life-saving medications worldwide.

Improving pharmaceutical shipment oversight

DB Schenker is one of the world's leading global logistics providers specializing in air transportation of temperature-sensitive pharmaceuticals. For many years they have shown a strong commitment to delivering quality for their customers and a deep understanding of the complexities of the products they transport. To meet their high standards and ensure the safety of the products in their care, they relied on in-depth standard operating procedures (SOP's) and additional trackers being placed in a shipment to monitor key data such as the temperature. As part of their continual process improvement, DB Schenker initiated a project with Envirotainer with a goal of answering the question;



“How can we provide even more value to our customers, while at the same time reducing the amount of manual work required?”

This case study explores their journey towards achieving real-time container data visibility using the Envirotainer Developer Guide.

Recognizing the need for innovation

DB Schenker recognized that transporting temperature-sensitive biopharmaceuticals safely and with full visibility of the entire shipment comes at a cost when it is dependent on human management, be it financial, time or resource. To optimize their operations and enhance their ability to monitor shipments in transit, DB Schenker decided to initiate a project to partner with Envirotainer to see how our real-time container data could be utilized more effectively.



Implementing Innovation

When DB Schenker approached Envirotainer to discuss possibilities for using Releye® live shipment data more effectively, they had three main requirements:

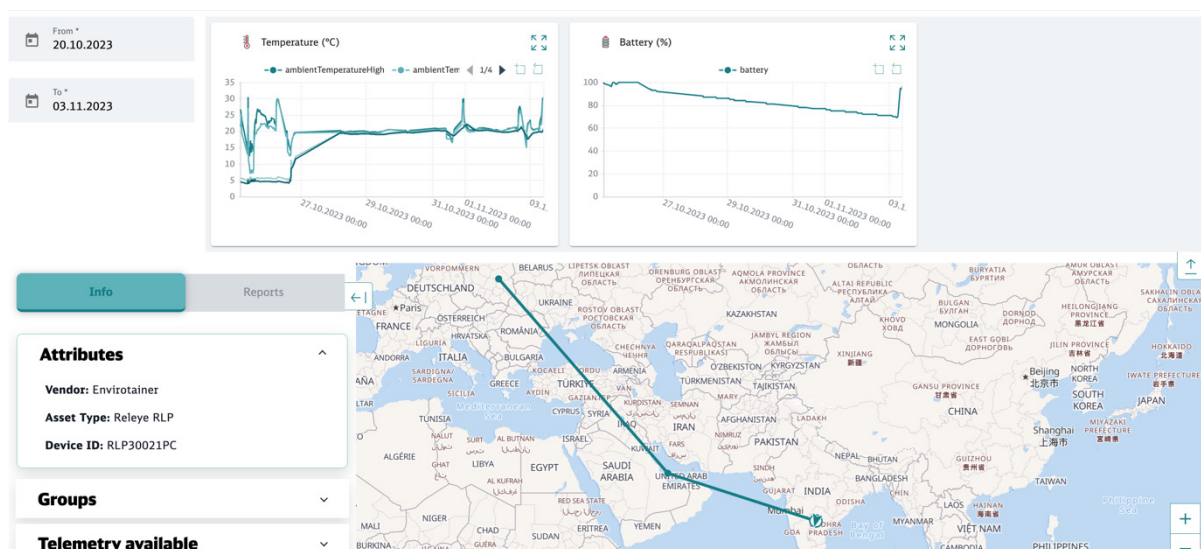
- The solution must continue to offer high quality and reliability for their customers shipments.
- The solution should reduce the amount of manual handling (and thus the potential risk of human errors) required for shipment oversight.
- The solution must increase the visibility of shipments including key data such as temperature, battery levels and location.

We introduced them to our Developer Guide, which contains APIs (Application Programming Interfaces) for accessing various data points from the Envirotainer Portal. We explained that DB Schenker could use this guide to seamlessly integrate Releye® container data into their own IoT platform with very little technical development needed to link the two systems together.

DB Schenker took on the development of the integration entirely within their organization and utilized the self-service Developer Guide, minimizing the need for additional resources to execute the solution. With only an initial call and a summary call with us, DB Schenker's developer team successfully implemented the integration into their system in a relatively short amount of time.

Results

The integration of Envirotainer container data into DB Schenker's systems has had a significant positive impact on their operations. They now have comprehensive oversight of all shipments using the Releye® solution – all consolidated into a single platform. The data feed from the Envirotainer Portal is live and in real-time, providing essential information, including container details, battery levels, inside and outside temperatures, real-time location tracking, and more.



Live location tracking of a Releye® unit on-route to destination in DB Schenker's IoT platform

What are APIs?

An API (Application Programming Interface) works as a go-between to allow two different applications to talk to each other (in this case, the Envirotainer Portal and DB Schenker's IoT system). APIs are an accessible way to extract and share data across organizations.

The benefits of linking the Envirotainer Portal to your systems include centralizing your shipment data, no additional costs for developing additional tracking methods and you have the security of knowing that you have the most up-to-date data for your shipment.



By treating each Releye® unit as a “full time employee” and partnering with Envirotainer to utilize our APIs, DB Schenker has successfully increased the visibility, reliability and quality of their shipments, while at the same time reducing the amount of manual work needed – and all without any additional costs to implement the solution.

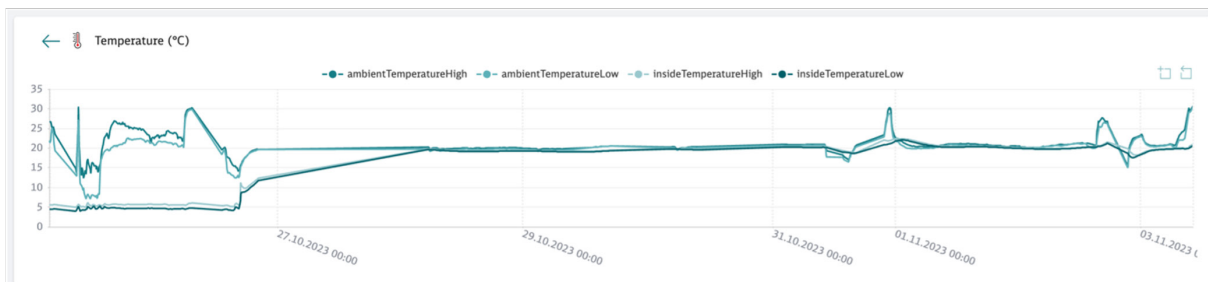
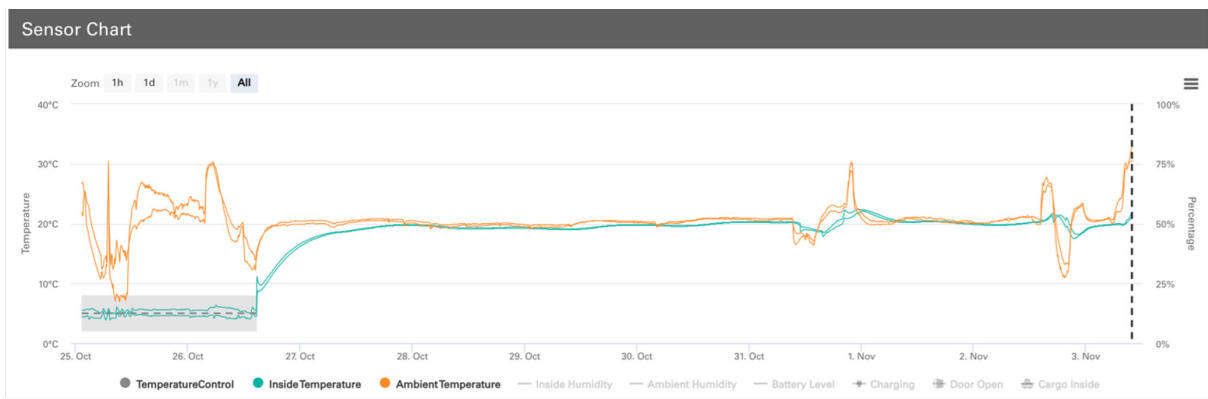
With this newfound visibility, DB Schenker is planning to further enhance their operations by implementing a control tower service. This service will allow them to proactively respond to the data they receive from shipments should an unexpected event occur. By identifying and addressing potential issues in real-time, they can reduce the risk of product wastage, lower CO₂ emissions, and reduce costs associated with investigating potential temperature excursions.

Ben Zervas, Director of Air Operations Center at DB Schenker said: “Receiving Envirotainer’s Releye® container data in DB Schenker’s system, enables our operations team to effectively and efficiently track our Pharma Shipments within Envirotainer units across the globe. The real time data provides us with the ability to proactively

mitigate potential risks to the integrity of the product as well as provide accurate updates to our clients.”

Michael (Mikey) Langford, Global Key Account Manager Forwarders from Envirotainer added: “Our partnership with Schenker focuses on optimization that delivers on our commitment to customer excellence, while eliminating waste and creating a more sustainable future. By activating the Releye® container data in their platform, they instantly turned a product into a service – Control Tower. This is a pivotal moment in the world of quality cold chain management and I am excited to be on this journey together with Schenker.”

This successful integration is a testament to DB Schenker’s dedication to excellence in logistics and their commitment to find innovative ways to add value for their customers to ensure the safe and efficient transport of temperature-sensitive biopharmaceuticals.



Comparison of temperature data from a live shipment in the Envirotainer Portal (top) and DB Schenker's IoT system (bottom)



About the Envirotainer Developer Guide

Grow your business by connecting your applications with Envirotainer digital services using API's. The developer guide is the place for accessing Envirotainer API documentation, signing up and making them easy to use. These pages focus on accelerating your developers and to ensure their success. We add and expand the available API's continuously over time.

We currently offer API's for Releye® orders and live shipment data. We are continually adding to and expanding our API's that are available.

Find out more about the Envirotainer API

Developer guide at: <https://www.envirotainer.com/digital-services/developer-guide/>

About DB Schenker

With around 76,600 employees at more than 1,850 locations in over 130 countries, DB Schenker is one of the world's leading logistics providers. The company operates land, air, and ocean transportation services, and it also offers comprehensive logistics and global supply chain management solutions from a single source. To reach its ambitious goal of net carbon zero by 2040, the logistics service provider continuously invests in innovative transport solutions, renewable energies, and carbon-neutral products for its customers.

