

IoT Cold Chain Solutions: Pharma Product Tracking Made Easy

A leading global wireless carrier partnered with us to develop and deploy an LTE Category (Cat) M1 [asset tracker](#) for its [health care](#) customers. The organization required a tracking solution to monitor the location and condition of multiple shipments constantly and provide precise real-time data. Moreover, this solution needed to be cost-effective and have reliable network connectivity.



Challenges in the Way of Successful Goods Transport

Pharmaceutical products are time and temperature sensitive. Issues that can affect the successful transport of these products include:

- Battery life
- Shipment timing
- Destination management
- Temperature control variations

Tracking these products across [supply chains](#) over long distances (e.g., cross-country shipments or flights) requires precise monitoring.

A Low-Power IoT Asset Tracker for Cold Chains

With the telecom giant, we created a solution for four million units that surpassed its health care customers' expectations. We designed and launched an LTE Cat M1 IoT asset tracker under a joint go-to-market strategy.

A low-power device design utilizing a high-density battery for extended battery life (12-18 months on a single charge) was chosen to ensure reliability over long periods in the field. The device architecture featured embedded sensors, which simplify monitoring and regulation of time- and temperature-sensitive pharma products transported over long distances. An onboard accelerometer and GNSS antenna were added for location tracking and to detect mishandling.

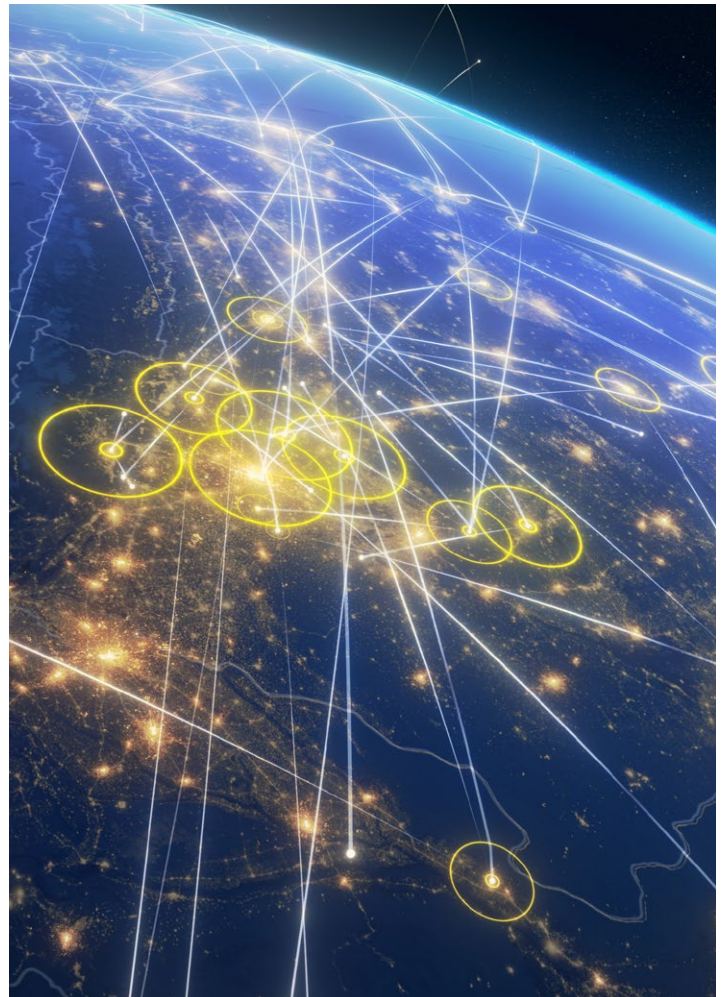
Error-Free Shipment Tracking and Reduced Loss from IoT Cold Chain Solutions

Our IoT asset tracking solution for [cold chains](#) resulted in myriad benefits for the carrier and its customers, including:

- Detailed, error-free shipment tracking data from the warehouse to the final delivery location
- Increased safety
- Reduced loss and damage through bidirectional communication, tracking and status-display mechanisms
- Fewer issues associated with temperature variances due to prompt alerts from embedded thermostability sensors

Moreover, the solution improved customer service and satisfaction, increasing revenues and lowering costs.

Speak to our IoT solution experts to get started on your custom IoT cold chain monitoring solution.



Create Your Custom IoT Solution

[Request a Consultation](#)