

Ensuring the safety and security of the pharmaceutical supply chain with IoT shipment tracking

A leading global pharmaceutical manufacturer was looking for greater visibility across all its shipments in a particular foreign country in an effort to better secure shipments of its sensitive cargo and prevent theft, pilferage and product damage.

The company was looking to cover all transportation legs of the supply chain:

- The transport of partially completed pharmaceutical products from manufacturing facilities to processing centers
- The shipment of finished products to regional warehouses
- The delivery of the finished products to local distributors

Although pilferage, hijacking and product tampering were ongoing problems, the containers couldn't be sealed because the cargo had to be accessible for random checking at government checkpoints.

At the recommendation of an Ingram Micro reseller, the company implemented an IoT-driven shipment monitoring solution system to substantially improve shipment visibility and the safety and security of its logistics operations.

Real-time monitoring improves operational efficiency and safeguards shipments

Sensor technology and AI-enabled alerts and analytics—working in conjunction with a 24/7 manned incident and crisis response center—provide real-time data, alerts and detailed reports. This information is used to flag and assess vehicle violations such as route deviation, unscheduled stops and night driving (when there's a greater likelihood of accidents or hijacking).

The company can now take measures to address any incident immediately as well as long-term measures to prevent similar problems from reoccurring. Active monitoring of the shipments and



At a glance

A major global pharmaceutical manufacturer was having trouble controlling shipments in one of the foreign countries where it does business—and had experienced significant losses due to theft, product tampering and spoilage. After implementing an IoT-powered shipment tracking system, the company has managed to substantially improve its supply chain operation. It now has a system for successfully monitoring every shipment and can take proactive measures to mitigate any disruptions or damage.

Solution components

The tracking solution is comprised of:

- Sensors
- Gateways
- Connectivity
- Cloud
- Analytics
- 24/7 monitoring by a manned incident and crisis response center

Outcomes



As a result, the company believes it will be able to improve accident and defect counts significantly.

Ensuring the safety and security of the pharmaceutical supply chain with IoT shipment tracking (cont.)

environmental conditions within the trucks has also allowed the company to improve and expand the cold chain for its vaccination products.

Since implementing the tracking technology, the company can now monitor:

- The location, condition and handling of all pharmaceutical shipments and products across any storage or sorting facility, carrier or mode of transport
- Factors that affect delivery compliance, including the packaging and shipping processes, storage conditions, routes taken and chain of custody
- Conditions that impact product safety and authenticity, including temperature, humidity and package handling

To learn more about the shipment tracking solutions Ingram Micro has to offer, visit <https://iot.ingrammicro.com/marketplace/solutions>.

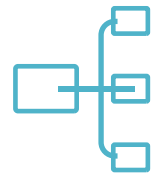
If you have a customer who's interested in a tracking solution right now, contact our IoT experts at <https://iot.ingrammicro.com/contact/>.



SENSORS



GATEWAYS



CONNECTIVITY



PLATFORM

