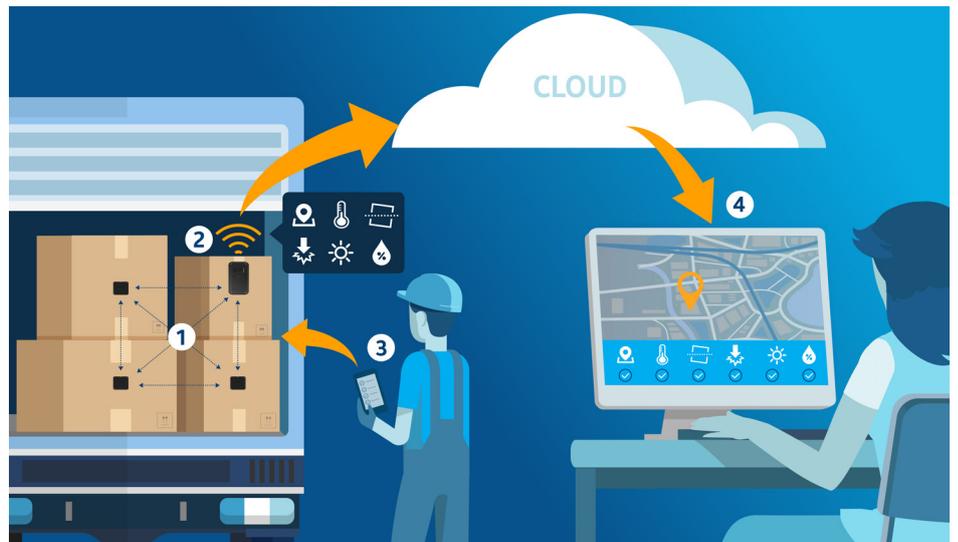# Intel® Connected Logistics Platform

**PA Consulting's track and trace solution, built on the Intel® Connected Logistics Platform, helps improve responsiveness and reduce shipment loss.**

**Intel® Connected Logistics Platform.**
The solution consists of Sensor Tags, a Gateway, a Mobile App, and a Dashboard:

**❶ Sensor Tags.** Placed on packages to collect data (temperature, tilt, shock, light, humidity, barometric pressure).

**❷ Gateway.** Placed on a package in the shipment; collects sensor data from Tags and transmits data to the Cloud.

**❸ Mobile App.** Pairs and unpairs a Tag with the package it is attached to; pairs and unpairs a Gateway with the shipment it is tracking.

**❹ Visibility Dashboard.** Enables shippers to view real-time sensor data and receive alerts.



Sensor tag

Gateway

## Intel and PA Consulting Deliver Real-Time Monitoring of Package Condition & Location

Companies ship millions of tons of goods and materials every year. When a shipment is compromised in transit due to damage, spoilage or theft, companies lose revenue, time, productivity as well as goods.

Intel and PA partnered to develop an IoT hardware/software solution to increase the visibility, integrity, and security of shipments as they move through the supply chain. It provides real-time tracking of shipment location, temperature, light, humidity, shock and tilt, plus a dashboard for effortless monitoring and data analysis with programmable notifications and alerts for quick intervention.

## Solution Benefits:

- **Real-time risk mitigation.** Live package condition and location data and alerts support loss prevention or reduction.
- **Geofencing.** Alerts when shipments are delivered facilitate process automation.
- **Trend & predictive analytics.** Visibility dashboard provides data to help triage immediate and recurring problems to optimize the supply chain.
- **Operational Efficiencies.** All-in-one device that allows for package-level tracking, and reduced costs associated with product waste and inefficiencies.

# Lack of Supply Chain Visibility Has a High Impact

Current shipment tracking solutions either fail to provide real-time visibility or are too expensive for package-level deployment, which hinders the ability to mitigate loss, assess responsibility, and identify opportunities for process improvements.

**30% of 76 billion packages** are damaged or delayed each year

**$60 BILLION** of cargo is stolen/year*

**2.2 A DAY** Cargo thefts in U.S. with an average value **$233K**
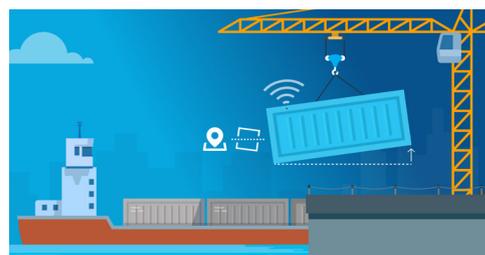
**30% of perishable goods never reach the table**

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# Intel® Connected Logistics Platform Provides End-to-End Supply Chain Monitoring

### High-Value, Sensitive Equipment

**Challenge.** Excessive tilt or shock can damage large, costly equipment like capital goods, laboratory equipment, and machinery.

**Current Solution Gaps**. Shock and tilt indicators only provide data upon delivery and do not identify where the breach happened.

**Intel® Connected Logistics Platform.** Real-time dashboard alerts of location and excessive tilt or shock enable root-cause isolation and triage.



### Goods at Risk of Theft

**Challenge.** High-value shipments, like consumer electronics, branded apparel, pharmaceuticals, and intellectual property, are often targeted for theft.

**Current Solution Gaps.** Digital communicators are cost-prohibitive for package- level tracking, and analog devices do not provide a means to identify and address theft.

**Intel® Connected Logistics Platform.** GPS tracking and mesh networks enable re-al-time alerts if a shipment is outside of the geofence or if a single package has been separated.



### Temperature-Regulated Shipments

**Challenge.** Products like pharmaceuticals, perishables and chemicals must maintain specific temperatures to prevent spoilage and meet regulatory standards.

**Current Solution Gaps**. Analog devices only provide information after products are degraded or spoiled.

**Intel® Connected Logistics Platform.** Sensors monitor interior and exterior package temperatures and signal alerts if measurements exceed regulatory levels.



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# Transform your Logistics and Gain the Competitive Advantage

- Real-time asset tracking and monitoring of shipment quality, integrity, and security at every stage of the supply chain, anywhere in the world.
- Easy-to-set-up visibility dashboard customized for your enterprise needs.
- Seamless integration into existing workflows with minimal onboarding.
- Cloud-based platform tracks packages worldwide and scales with your business.
- End-to-end security from devices to the Cloud by using an optimal mix of authentication and encryption.

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