



## Case Study: LoJack SCI Covert Cargo Monitoring Using Wireless GPS

### The Challenge

Provide tracking, load integrity, chain of custody control and monitoring of high value, condition sensitive and regulated cargo over the road, rail, at sea, and in the air. Companies require the ability to track and recover stolen cargo or be alerted if there is an intrusion or environmental breach including light, temperature, humidity and pressure.

### The Solution

LoJack<sup>®</sup> SCI solutions deliver greater visibility, security and reliability in the supply chain and are powered by the KORE network for superior coverage, data speeds and connectivity.

### The Results

By deploying the cellular-based GPS solution, LoJack<sup>®</sup> SCI members receive:

- Real-time data points
- Fast, accurate and time-stamped GPS location identification with condition status
- Timely alerts on status of cargo deviating from a predetermined route, crossing a high risk zone or departing from point of origin and arriving at final destination
- Sensor breach alerts such as going above or below predetermined thresholds of light, temperature, humidity and/or pressure



## Background

The supply chain is a complex structure involving multiple parties, modes of transportation, touch points and time-critical events. In addition, many products are sensitive, intended for human ingestion (pharmaceuticals, food and beverage), targets of counterfeiting or are highly regulated. The condition of products in-transit in the supply chain is critical and cannot be compromised as they cross geographies, modes, and numerous hand-offs between parties. Real-time visibility of their condition is needed to ensure chain of custody control.

High value products also require layered security as they move through the supply chain. Cargo theft is on the rise and is estimated to cost shippers tens of billions of dollars per year. The magnitude of this problem emphasizes the need for greater visibility into the entire supply chain. Maintaining constant surveillance on cargo and its condition helps reduce the risk of loss by reacting more quickly due to better access to data from the field.

**“The combination of LoJack SCI products and applications, an experienced, client-focused support group, along with a network of contingency response organizations, creates an essential layer of security that fortifies our global supply chain’s integrity.”**

**– Pat Woods  
Transportation Manager, Amgen**

## Solution Overview

LoJack® SCI provides integrated solutions for supply chain protection including shared supply chain intelligence and analytics, covert cargo tracking, monitoring and recovery. The LoJack® InTransit™ platform provides a covert tracking and monitoring solution to recover stolen cargo as well as actionable information from sensor data while in-transit. Additionally, these solutions feature event-based, proactive and actionable alerts for added security and increased visibility across all modes of transportation with clear chain of custody management, utilizing active sensing of the cargo environment while in-transit.

With the largest footprint in North America, KORE powers LoJack® SCI solutions by delivering reliable, real-time, mission-critical data on-time, every time.



Maintaining constant surveillance on cargo and its condition helps reduce the risk of loss.



## Key Results

By delivering benefits such as real-time information and chain of custody monitoring for goods in-transit, LoJack® SCI protects both the supply chain and a company's bottom line. ROI is demonstrated in the recovery of stolen cargo as well as use of sensor data with breach alerts that encompass going above or below predetermined thresholds for light, temperature, humidity, and pressure to prevent spoilage from occurring in-transit.

For many companies including pharmaceutical and retail entities, LoJack® InTransit™ provides real-time temperature sensor data. Temperature data is reported through the KORE network in real-time, delivering the current temperature in refrigerated trailers and sending alarm notifications if the threshold is breached. Corrective actions can be taken immediately instead of waiting for the cargo to arrive at the final destination.



100% True Global Coverage



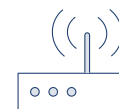
IoT Expertise and Strong Service Delivery Track Record

## LoJack SCI Delivers

- Proven technology
- Continual innovation including new product releases and improved features
- Global reach and inter-modal application
- Expertise in the supply chain for greater visibility, security and reliability

## KORE Delivers

- 100% true global coverage
- IoT expertise and strong service delivery track record
- Dual VPN connections for its network-to-customer premise with auto failover for performance and reliability
- Two fully geo-redundant data centers powered by Cisco with automatic failover and self-healing capabilities
- Multiple, redundant connections to the largest cellular and satellite carriers worldwide



Multiple, Redundant Connections



Automatic Failover and Self-Healing Capabilities



## About KORE

KORE provides the people, expertise and technology to support the many visions of the IoT, from the Inspiration of Things to the Innovation of Things to the Internet of Things. Founded in 2003, KORE quickly rose to become the world's largest managed network services provider specializing in Internet of Things (IoT) and Machine to Machine (M2M) communications. Today, KORE is a global leader in software service and platforms that power the IoT, with millions of active on-network units. KORE is the brand powering other leading brands, including some of the world's largest enterprise customers. KORE's singular customer-centric focus is to identify and develop solutions that help clients realize IoT innovations and accelerate time-to-market schedules. KORE has over 350 people who serve customers in 110 countries, empowering new business models and opportunities to monetize the IoT. KORE: The People Powering IoT.

## About LoJack Supply Chain Integrity

LoJack Supply Chain Integrity is the only company that provides a total integrated solution for supply chain protection—from information sharing and analysis to investigative intelligence to covert monitoring and recovery—making its solution the most complete in the industry. LoJack Supply Chain Integrity is building an extensive, diverse community of members—from private industry to law enforcement—who for the first time have a platform to share information and combat supply chain threats, making the company a powerful force in the market. Founded in 2004 as Supply Chain Integrity, the company was renamed LoJack Supply Chain Integrity following an investment from LoJack Corporation in 2008. At that time LoJack became a majority shareholder in the company, bringing its venerable brand's resources, recovery expertise and law enforcement relationships to this innovative, emerging company.

## KORE Contact Information:



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