CASE STUDY

Covert Cargo Monitoring Using Wireless GPS
Provides Greater Visibility, Security and Reliability in the Supply Chain

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® 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® 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.

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.

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. The real-time temperature breach informs companies so they can take measures to maintain the integrity of these refrigerated trailers before the cargo is completely compromised due to the temperature being above or below the thresholds set. With the sensor data in hand, if the temperature rises above the threshold, the driver can be contacted to stop and check the refrigeration system to ensure it is working properly. If there is a problem, companies can make arrangements to have the refrigeration system repaired or transfer the load to a different refrigerated trailer before the cargo is irreversibly spoiled or contaminated.

M2M wireless networks — it's all we do.

KORE telematics

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…
- M2M expertise and strong service delivery track record
- Dual VPN connections with auto fail-over should one go down
- Two, fully geo-redundant data centers powered by Cisco with automatic fail-over and self-healing capabilities
- Multiple, redundant connections to the largest national carriers in North America

To learn more about what KORE can do for your M2M business needs, please visit www.koretelematics.com or email sales@koretelematics.com or call us at 1.866.710.4028.

"After thorough testing of various tracking solutions, LoJack SCI was determined to be the most reliable in terms of tracking accuracy and consistency. A wireless M2M monitoring application that offers an easy-to-use platform provides high levels of visibility, control and flexibility to our organization. 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

"In supply chain logistics, real-time access to remote data is the key to providing customer centric services regarding in-transit cargo. At KORE, we understand the sensitivity to this and deliver highly reliable network services across the largest footprint in North America. Leveraging the KORE network, partners like LoJack SCI are developing cost effective, easy to use wireless tracking and monitoring solutions to transform field data into useful information for their customers."

Alex Brisbourne
President and COO, KORE Telematics

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 (NASDAQ: LOJN) 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. *To learn more about what LoJack SCI can do to provide a greater visibility, security and reliability in your supply chain, please visit www.lojacksci.com or email info@sc-integrity.net or call us at 972-552-5635.*

About KORE Telematics

KORE Telematics is the world's largest wireless network provider focused exclusively on the machine-to-machine (M2M) communications market. Companies in virtually every industry are implementing M2M solutions to achieve productivity gains, cost management, environmental improvement, and to expand customer services. KORE delivers GSM and CDMA services to ensure the greatest possible reliability and coverage as well as valuable tools that enable our customers to effectively manage their daily operations.

KORE telematics