

# Global Supply Chain Security and Visibility

Your supply chain and the cargo within it are paramount to your business. Whether they're perishable goods, pharmaceuticals, manufactured items, materials, medical devices, hazardous substances, or ordnance – their safety, security, integrity, and timely delivery are crucial.

From the first mile to the last mile of complex supply chains – across borders, through intermodal distribution, logistics, and warehousing – AKUA's secure, persistent environmental monitoring and tracking services provide in-transit visibility of goods and shipments across the globe enabling customers to:

- Enhance operating effectiveness and efficiency
- Minimize loss from theft, damage, or other spoilage
- •Optimize the value of goods through predictive analytics-based decision-making

AKUA combines the industry's most advanced tracking devices, proprietary multi-layer security, in-transit analytics, and AKUA web services to deliver full, end-to-end supply chain tracking and monitoring that transforms data into actionable information.



## **Devices and Sensors**

AKUA's SLM is an innovative, cost effective, and secure locking electronic seal (e-seal) and monitoring device that uses GPS and 4G & 3G cellular networks to monitor and safeguard shipments in real time. It provides remote users with long-distance data on a shipment's location; tampers, breaches, and accesses; and condition and integrity.

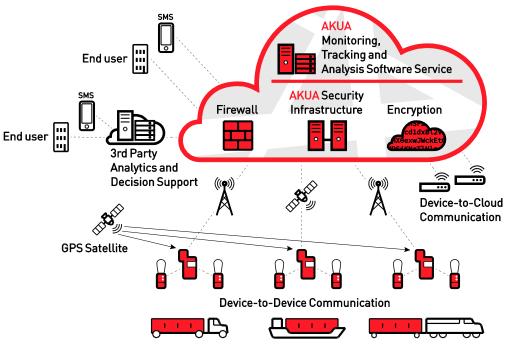
AKUA's family of remote environmental sensors work in combination with the SLM and CTU to monitor and report environmental status (tamper, shock, light, temperature, and humidity) and issue real-time alerts in the event of breach or threshold exceptions.

The CTU (Covert Tracking Unit) is designed to be placed inside a container and/or with cargo and combines location tracking via GPS and 4G cellular network with a built-in temperature sensor.

AKUA SLM

## The AKUA Solution

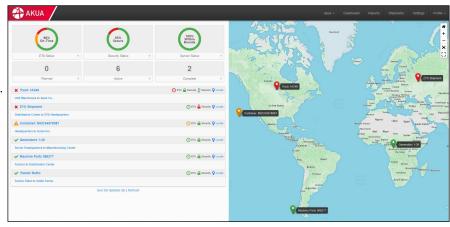
The AKUA solution tracks and continuously monitors intermodal containers and their contents from first to last mile. AKUA SLMs, CTUs, and sensors provide real-time security and environmental monitoring, transmitting data over 4G & 3G cellular network to the AKUA security infrastructure. Using the AKUATrack or a proprietary application, supply chain stakeholders are aware of their shipment's location and status, and are alerted in the event of tampers, breaches, and accesses or sensor threshold violation.



### AKUATrack

AKUATrack is a continuous in-transit visibility and analytics platform that provides control over sensors and devices to deliver endto-end supply chain tracking and monitoring. Customers can choose from two types of service:

Software as a Service. Accessed via any desktop of mobile browser, AKUATrack's single-platform solution provides 24-7, endto-end in-transit visibility across complex supply chains and provides actionable data in real time enabling users to enhance operating effectiveness and efficiency; minimize loss from theft, damage, or other spoilage; and optimize the value of goods. The AKU-



#### AKUATrack Capabilities:

- Shipment Information
- Schedule and Routing Information
- •Cargo Photos and Files •AKUA Mobile Application
- •Security and Sensor Alerts

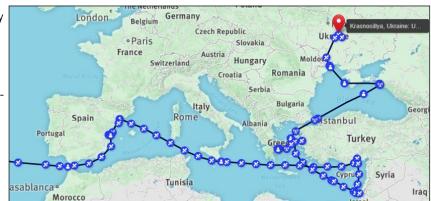
ATrack SaaS delivers real-time location, security, and sensor data and presents it in user-friendly, easy to understand maps, graphs, tables, and reports. Users can opt-in to receive alerts in the event of breach detection, geofence ingress and egress, and/or sensor threshold exceptions.

Data as a Service. DaaS provides direct access to information on the status of cargo for companies that require integration of tracking and monitoring data into a third-party or proprietary platform. AKUA can provide needed data feeds and custom integration.

## **Benefits**

Over half-a-billion cargo containers pass through ports and terminals every year. According to the Transported Asset Protection Association (TAPA), 73% of U.S. retailers suffered cargo thefts in 2019 and the theft of high value, high risk products moving in supply chains in Europe costs businesses in excess of € 8.2 billion. Spoilage and damage account for additional losses. Uncertain delivery schedules and unpredictable cargo condition create costly inefficiencies. AKUA helps organizations build more effective supply chains and enables them to:

- Reduce risk of loss; increase likelihood of recovery
- Reduced insurance premiums
- •Improve operating effectiveness, achieve efficiencies in use of assets, resources, people
- Enhance just-in-time logistics with up to date locations and estimated time of arrival
- •Safequard product quality, improve process yields
- Decrease cost of compliance
- •Build an adaptive, more resilient supply chain



## Why AKUA

AKUA brings together a strong heritage in cyber security, supply chain logistics, and big data analytics. Our principals and founders are recognized as leaders in creating smart supply chain technology and solutions and bringing security to the Internet-of-Things for supply chain logistics. By combing our legacy in cyber security and supply chain logistics, AKUA has created the industry's first global, end-to-end physical and cyber secure logistics solution.



Learn more at akua-inc.com