Skysens

Skysens Technology Enables Affordable Asset Tracking in Airports and Seaports

Description

Skysens devices and wireless RF technology (LoRa Technology) is making it easy and economical for smart supply chain and logistics to track valuable assets including vehicle fleets and on-ground equipment (i.e. trolleys, expensive tools). With Internet of Things (IoT) tracking for fleets and equipment, businesses can reduce cost by keeping these items in the field longer with better visibility for maintenance issues and close monitoring of real-time location.

In an airport or a seaport, LoRa Technology gives managers an affordable window into all the information they require from the assets at work. LoRa-based devices, sensors and gateways are an affordable way to capture, track and manage all the data generated by multiple movable assets in-motion.

Benefits

Tracking devices placed on company assets, such as tractors, trolleys, belt loaders, pallet loaders, forklifts, and other essential in-motion assets enable real-time location and status sharing with a central manager.

Location tracking of the vehicles and other motorized or non-motorized equipment's with working counter, working condition trackers and other vital information gives insides to managers for better decision making and optimizing costs.

When monitoring engine temperature, velocity, oil pressure or battery charge status, essential information can be gathered and tracked over time in the Cloud, removing on-site IT from the duty of on-going management of tracking platforms and desktop software. Employees can immediately find what they are looking for using a smartphone or other mobile devices.

In addition, long-term maintenance tracking of assets allows for better buying decisions when it comes time to repair or replace. Managers are able to use the data to make better informed decisions about company assets.

Success Story

Istanbul Airport, one of the biggest airports in the world is currently building on 76,5 million square meters to the north of Istanbul, in 35 km distance to the city center. IGA was founded on October 7, 2013 with the purpose of constructing and operating for 25 years Istanbul Airport. As today, the first phase is completed and a large part of the airport is now serves to approximately 90 million passengers.

As a network of things company, we have successfully implemented our complete end-to-end IoT solutions to manage and monitor IGA's metering system on water, electric, gas & oil consumptions. Skysens technology provides simple, secure and long range solutions. Our advanced application software converts sensor's data to meaningful information from IGA's critical infrastructures to generates efficient reports and dashboards.

Skysens smart gas and water metering solutions utilize LoRa Technology to remotely measure and adjust the levels of flow through piping by accessing a LoRaWAN™ network and transmitting data via third-party applications.

Our IoT devices simply connects to IGA's metering devices and provides the utility manager all necessary functions, including the ability to view usage trends and to monitor each meter remotely. Utility managers then use the data to program the LoRa-enabled devices to automatically shut off or change valves when certain thresholds are met.

How It Works

Skysens Technology for Smart Asset Tracking
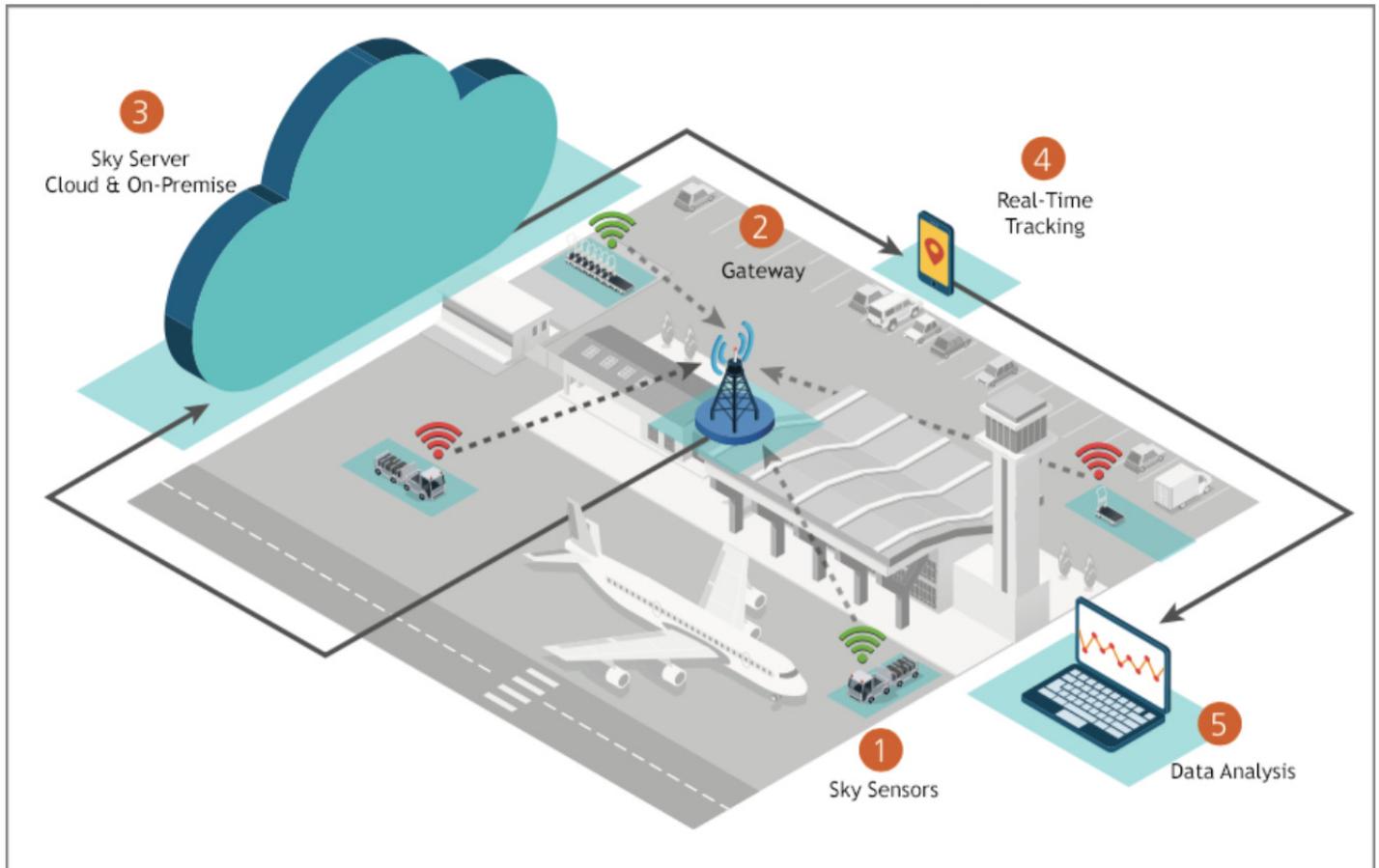
Skysens LoRa Technology enables real-time connectivity, monitoring, cost savings, and analytics.

1. For optimization on the airport field, airlines require better management of fleet vehicles and ground equipment. LoRa- based sensors are installed on all assets, then tracked and monitored via sensors including the time-of-use, driver identification and shock detection.

2. Skysens gateways are installed about one per square mile, or farther if it is a large space. Skysens gateways gather information from the s and send it to cloud or server on premises.

3. Cloud-based software is configured to collect all asset data and track it permanently. This information is stored long- term, handled by a Cloud-based software provider, and accessed via the web, mobile devices, desktops, and tablets.

4. Assets are now visible in real-time and lost assets can be located in seconds with a smart phone.

5. Over time, data can be analyzed to track most commonly used assets and to reduce operation costs by improving fleet management and inventory control.