

# Real-time visibility: Monitor your critical parts, assets, and tools 24/7

You have a grounded plane and mechanics waiting. You need to move an engine fast, but the stand isn't where it's supposed to be. A maintenance, repair, operations (MRO) project requires a critical repair kit, and the manufacturer can tell you only that it has shipped.

## Improve reliability and response times

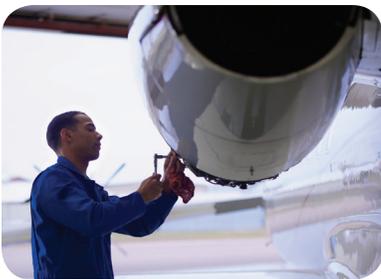
Know where your critical parts, assets, and tools are with SenseAware®, a FedEx innovation. This cost-effective, sensor-based logistics (SBL) technology allows you to monitor the location and environmental conditions of critical shipments and inventory in real-time. You can generate alerts and notifications, make decisions based on up-to-date information, collaborate, engage your supply chain contacts, and invite your recipients to monitor the progress or status of the shipment.



### Never lose sight of parts or tools

Always know the location of critical parts, tools, or equipment, whether they're on the move or on the shelf:

- En route to, or returning from, an airport on the ground (AOG) occurrence
- On loan to other locations or airlines
- Moved or misplaced in a warehouse



### Locate your engine stand on demand

When it's time to move an engine, you need a stand pronto. But in the fast-paced world of AOG/MRO, the right size stand can be hard to find. Mount SenseAware devices on your engine stands, and you can locate them when you need them.



### Find that ULD ASAP

It's easy to lose track of a unit load device (ULD) in a heavily trafficked airport. When that ULD contains parts, tools, and equipment critical to AOG/MRO, there's no time for a search party. With SenseAware, you can locate your ULDs without delay.



### Be alerted to possible security issues

If you have assets you can't afford to lose, ship or store them with SenseAware devices. Create geofences so you can be alerted when assets move in/out of your facility. Designate georoutes to enhance tracking and security, and to alert recipients of the shipment's progress.

# United Airlines uses SenseAware to locate critical aircraft tools

## No tool, no takeoff

United uses an abundance of tools, including many unique tool kits. If the right tool kit isn't easily accessible for an AOG/MRO occurrence, there are two options: Ship a replacement from another hub, or reroute the plane to the tool kit location. From an asset standpoint, this can cost up to \$100,000, but when you calculate added flight crews, delays, rerouting, rebooking, and unhappy passengers, the additional costs are staggering.

## Thinking inside the toolkit

To eliminate the common question "Where's that tool kit?," United tested the real-time location, geofencing, and light-sensing functions of SenseAware by monitoring empty boxes placed on United flights from Houston to New York, Florida, and Los Angeles.

For the first SenseAware mission, the United team packed the device with a laptop designed specifically for Boeing 787 repairs, the only one in the entire company. United activated a geofence around the destination airport, and SenseAware was enabled to notify key parties when the laptop arrived at its destination and again when it left the area.

## Guarding priceless tools

Since that first journey, the laptop has never traveled without a SenseAware device. United now includes SenseAware devices in tool kits dispatched in the U.S. and internationally.



*"Since we started using SenseAware, we haven't had any problems with locating tools and getting them back from our repair missions."*

- **Mark Green**, Maintenance Tooling Supervisor, United Airlines

## Give your customers peace of mind with SenseAware

With SenseAware, you'll be able to give your customers the inside story on the cargo they care about most:

- Irreplaceable shipments, such as family pets, race horses, and research animals.
- Valuable shipments, such as jewellery, furs, or artwork.
- Temperature-sensitive cargo, such as vaccines, tissue samples, or blood products.
- Cargo that requires precise arrival time notification.

### SenseAware. Know More. Know Now.

Unlike data-loggers that provide detailed information after a shipment is delivered, SenseAware, a FedEx innovation, uses sensor-based technology to communicate what's happening with your shipment in real-time. It enables you to proactively respond to or mitigate potentially negative situations. Simply activate the SenseAware device and place it in or on your shipment or inventory. The robust online application lets you monitor your shipment's integrity, security and location from your desktop or mobile device.

Developed by FedEx, SenseAware can be used with any approved air or ground carrier, domestically and internationally, or on private fleets. It can also be used in non-shipping applications, such as inventory control and process monitoring.

### How do I sign up?

**SenseAware Subscription** is available for unlimited use with a monthly subscription. With **SenseAware Single Journey** you pay for each use, and we handle everything — from programming the device, to monitoring your shipment, and even coordinating intervention with local law enforcement, if necessary.