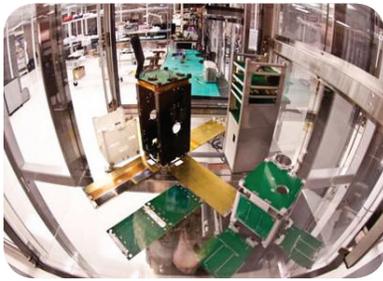


# Real-time visibility: Monitor your critical space assets 24/7

You have space research materials that need to be delivered in time for tomorrow's launch, and you need to know where they are every step of the way. Or you need to keep tabs on the temperature and environmental conditions of your space assets — from pickup to delivery. SenseAware,® a FedEx innovation, gives you the enhanced shipment visibility you need.

## Improve reliability and response times

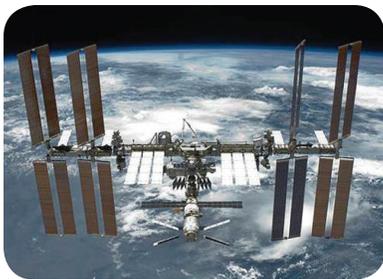
With the cost-effective, sensor-based logistics (SBL) technology that SenseAware provides, you can monitor the location and environmental conditions of your vital shipments in real-time; plan with confidence; and adjust and intervene, when necessary. You can generate alerts and notifications, make decisions based on up-to-date information, collaborate with your contacts, and invite recipients to monitor the progress or status of the shipment.



### Don't lose sight of high-value shipments

Enjoy the peace of mind that comes from knowing the location of your irreplaceable assets, whether they are:

- En route to, or returning from, another lab or integration site
- At the launch site
- On the way back from a recovery site



### Keep tabs on temperature

For lab specimens and biological materials that must be kept at a consistent temperature, you can use the SenseAware temperature sensor to monitor the contents throughout the entire terrestrial journey. You'll receive an alert in the event the temperature deviates from the preset limits so you can take steps to intervene if necessary to keep the materials viable.



### Know about bumps in the road

With the SenseAware shock sensor, you'll be alerted any time your fragile shipment's level of shock exceeds the designated threshold — helping you to validate that the contents arrived in the condition in which you shipped them.



### Be alerted to possible security issues

Ship SenseAware devices with nanosatellites, returning payloads, and other irreplaceable items you can't afford to lose. You can designate georoutes to enhance tracking and security and to let recipients know a shipment's progress. You can also request notification if the device's light exposure sensor detects light, indicating a package may have been opened or tampered with during transit.

# Space Tango uses SenseAware® to monitor terrestrial movement of critical assets

## Bound for celestial heights

For Space Tango Inc., an entrepreneurial company that utilizes space to discover, design, and commercialize solutions for applications on Earth, cubesats are the organization's business. With the evolution of microtechnology, these one-of-a-kind nanosatellites have an enormous number of applications and are creating opportunities across the planet.

When it comes to the terrestrial movement of these invaluable assets from point A to point B — whether that means across a state or across an ocean — Space Tango needs to ensure that each shipment arrives safely, securely, and on time.

## Down-to-earth solution

As a rule of thumb, Space Tango engineers would hand carry cubesats — many of which had been in development for more than a year — to multiple locations to make sure they arrived in time for integration and launch deadlines. Any delay to the schedule meant starting over from scratch.

In 2013, Space Tango began shipping these priceless assets with FedEx, relying on SenseAware to provide in real-time tabs on each shipment's location and environmental conditions.

With SenseAware, Space Tango can set up a geofence around specific points along a shipment's journey and be notified as the package moves through those points. The company also receives alerts if the temperature of the contents falls outside a designated range or if the light exposure sensor detects light, meaning the package may have been opened during transit.

After a successful trial run, Space Tango started using SenseAware to monitor every cubesat shipment.



*"SenseAware gives us peace of mind and a sense of control like nothing else on the market because we can monitor a shipment's movement anywhere. We can concentrate on building and designing our cubesats and not worry about their movement on Earth."*

- Kris Kimel  
Chairman, Space Tango Inc.

## Gain peace of mind with SenseAware

With SenseAware, you'll have the inside story on the assets you care about most:

- Irreplaceable shipments, such as cubesats and nanosatellites
- Valuable shipments, including returning assets
- Temperature-sensitive assets, such as biological materials
- Assets that require precise arrival-time notification
- Assets that require chain-of-custody or chain-of-quality verification

### 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.