



IoT tracking and monitoring - a necessity for cell and gene therapy shipments

Cell and gene therapy shipments involve a complex sequence of events with precise planning and coordination of the stakeholders involved. The medicines are unique and have vulnerable characteristics. The transport process involves the expedited movement of material from the patient to the manufacturing facility and then the return to the patient. A large proportion of movements include air cargo and paramount to the process is the speed and reliability of the service. All stakeholders are tasked with mitigating the risk of delay, misplacement or loss of the consignment.

Given the critical nature of these shipments and the worldwide availability of aviation regulatory compliant IoT/GPS tracking devices; should it be standard practise to include this type of device throughout the logistics process to remove the visibility gaps? The inclusion of a compliant device that is widely approved by a majority of the world's airlines ensures that in the event of an incident, such as the consignment being misplaced at any time in-transit, or a temperature excursion, there is an almost immediate remedial path to

- (i) Identifying the location.
- (ii) Notifying the appropriate stakeholders about the nature of the event.
- (iii) Corrective action taking place.
- (iv) A detailed report of location and sensor data throughout the supply chain - recorded and stored.

OnAsset's SENTRY devices are widely used for real time tracking and monitoring life sciences and pharmaceutical shipments to fill the visibility gaps in complex supply chains around the globe. If any delay or excursion in a shipment impacts product quality - is it really an option to not have an autonomous solution inside the consignment delivering real time visibility? With the growth of new medicines that are patient-specific, time and condition sensitive and of high value – is it time for the industry to standardize the use of real-time tracking and monitoring technology?

OnAsset's IoT solutions include SENTRY 500 FlightSafe with global connectivity and Sentinel for piece level monitoring linked to SENTRY with Bluetooth. Combined they deliver sensor and location data to the OAInsight Platform with systems integration through an enterprise grade API. The OAI App delivers an additional level of integration turning any mobile device into a Sentinel reader for Edge connectivity and data access.

Contact sales@onasset.com for more details and information.