

SAP LIQUID STUDIO FOR LEONARDO APPLICATION: INTELLIGENT TRACKING SYSTEM

Sensor driven chemical monitoring

Function: Inventory Tracking | Process: Supply Chain | Industry: Chemicals Products

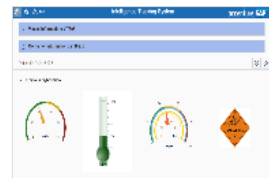
Application Overview

When some chemicals or other temperature-sensitive products are in transit there is often the need to determine if they have been out of ideal temperature for a period of time. Today, this is often done after the fact by downloading temperature data and can lead to lost product and wastage. Additionally, certain dangerous chemicals may have special transport conditions that need to be monitored to prevent accidents.

The Intelligent Tracking System uses IoT sensors to provide real-time monitoring information of the environmental conditions of chemicals throughout transport and allows for immediate intervention if an issue is identified.

Solution

The Intelligent Tracking System is an online dashboard that tracks vessels containing sensitive cargo on a map. Tracking information can be filtered down to a particular vessel and shipment, and the container level details of the shipment can be monitored.



Business Value

- Provides vessel location on a map, which can be searched by name and filtered by priority.
- Offers alert functionality to alert the corresponding person for taking corrective actions if metrics exceed certain thresholds.
- Provides clarity and visibility into safety guidelines for a selected container to reduce the risk of accidents.

Features

- Uses Google Map API integration to provide geolocation tracking.
- Displays container details of a selected vessel.
- Displays pallet details of a selected container.
- Provides real-time monitoring of environmental conditions of a chemical including humidity, temperature and pressure inside a pallet.

Technologies in Use

- SAP Cloud Platform
- SAP Leonardo IoT Services
- Google Maps API

