



CASE STUDY

**IOT INTEGRATION PROJECT:
LEVERAGE SENSORS TO MAINTAIN SHIPMENT INTEGRITY**



CCS
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About Client

An ERP partner based in USA wanted to develop an IoT solution for the shipment and logistics industry that would use sensors to capture real-time information and issue alerts for goods in transit. This data would be seamlessly merged with the ERP's shipment data.

The Challenge

- Manufacturers and logistics partners do not have visibility or the ability to monitor their shipment during transit which could lead to costly damages especially in perishable and high-value goods.
- There is zero visibility to monitor parameters such as temperature, humidity, tilt value, shock and geospatial location.
- Real time shipment information is critical especially when shipping perishables, goods that require uninterrupted refrigeration or high-value equipment that is sensitive to vibration or shock.
- Setting tolerance limits and monitoring this on a real-time basis will allow the shipping provider to take corrective actions that can prevent damages to these goods.

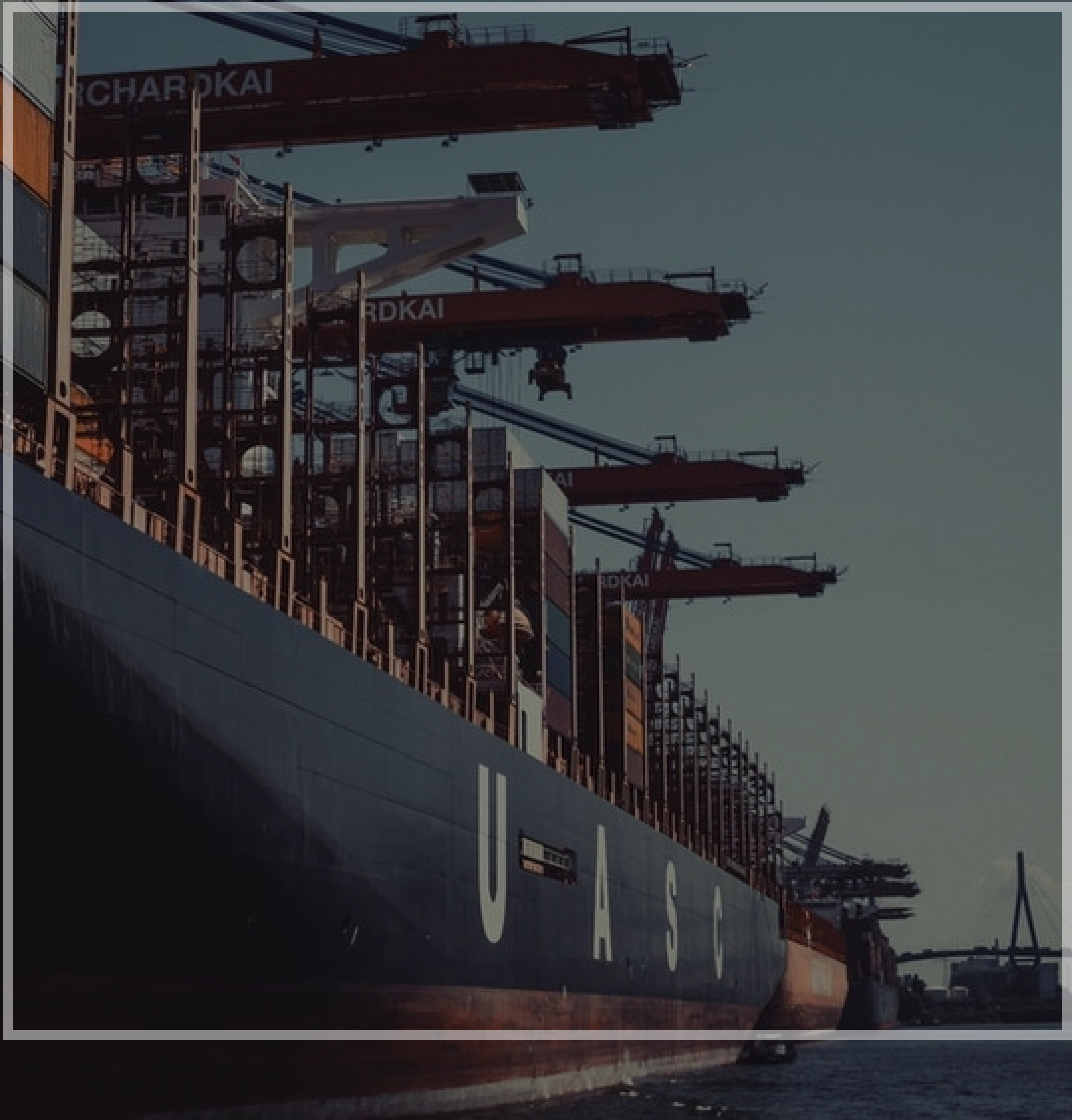
CCS Solution

- CCS designed and developed a solution that captures sensor data from each shipment, standardizes, consolidates and maintains it in a cloud database and pushes this data to the client's ERP.
- The sensor data contains the values for GPS Location, Temperature, Humidity, Tilt, Shock and Roll.
- Maximum and minimum thresholds can be set for each parameter and if a threshold is hit, an alert is sent.
- The system is designed to be user friendly and users can define the timing of the alerts or add / edit parameters and measurements with ease.
- By analyzing the data, the solution alerts the users of a distressed shipment allowing them to take prompt action. The system also maintains a complete history of events and allows a replay of the any particular shipment.
- Leverages the power of HANA, analytics, geospatial and SAP

Business Impact

- Real-time visibility of shipments enables partner to take immediate measures to reduce damage or implement correction action for future shipments
- Allows shipper to give real-time updates on current location and accurate delivery dates
- Allows better cooperation with client and logistics vendor to increase efficiency in shipments
- Increase in level of automated collection and processing of data





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