IMPROVING TRANSPORTATION AND LOGISTICS WITH IOT.

CLIENT PROFILE

Our client is a leading service provider in IoT who provides complete solutions for the function. They aim to help their clients become more efficient and profitable with their highly scalable solutions.

BUSINESS CHALLENGE

Briefly Logistics is rather an inefficient business. For a supply chain network, the warehouse is vital in receiving and supplying the right product at the right place at the right time. Current processes to manage location utilization in a warehouse are manual and inefficient, at this point it was essential to address the challenges that affect the efficiency.

The client also needed to address concerns with proper space utilization on transport vehicles and warehouse.

For help with solving this problem, the client turned to Suretek, who delivers absolute and consistent results.
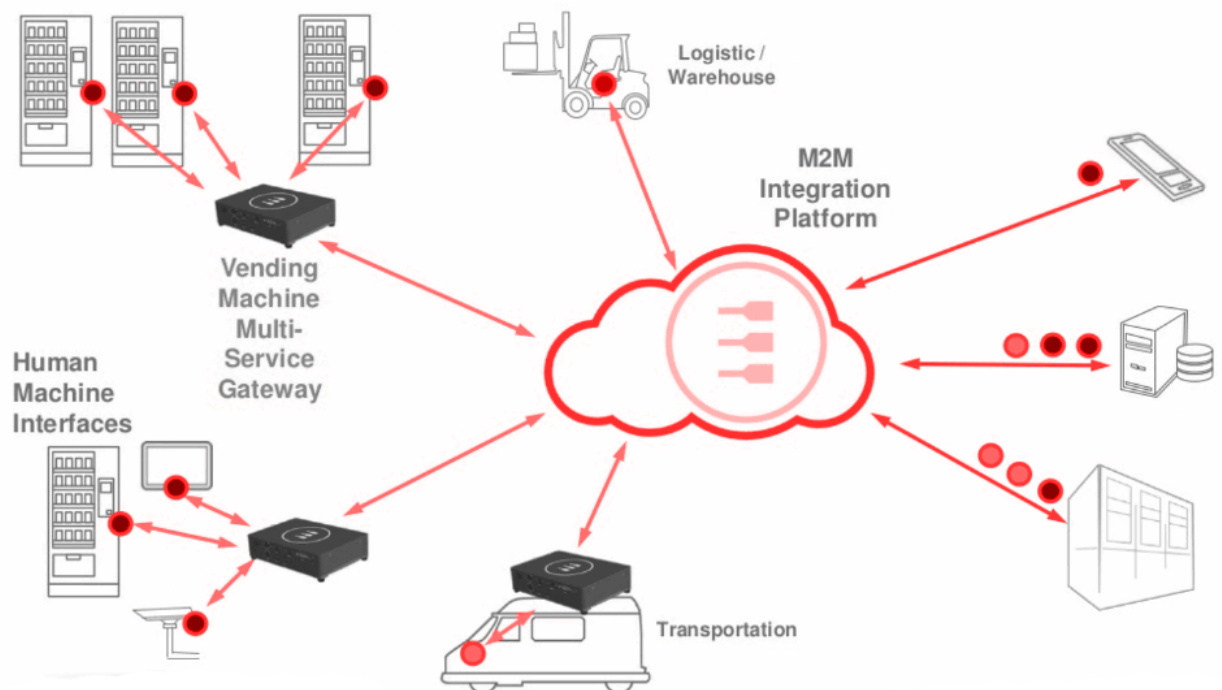
SURETEK SOLUTION

Suretek alongside its client, overlooked into the business requirements through a series of visualized meetings, developed a technical solution to envision the business concern. Suretek encouraged the evolution of Facilitating Optimization of Warehouse Space with IOT and IOE.

To hike the efficiency, automated transport and logistics internet is needed to complete the package.

SURETEK'S INITIAL PLANS

- Optimizing the lack of visibility on partially utilized locations and delayed vehicle offloading to increase the efficiency and lead to higher warehouse usage.
- Location optimizer solution utilizing wireless readers to provide location specific occupancy levels in real time.
- Real-Time Updates of Location specific utilization, which enables an admin to access improved knowledge of the location of the center.

SURETEK INFOSOFT   *CASE STUDY*

- **System Generated Reports for a union of location and improving the occupancy levels. Ultimately feeding us with innards of the shipments made.**
- **An Accurate Location Utilization process for fast and precise location utilization understanding.**
- **Set up a Direct Interface with the WMS (Warehouse Management System) which leads to error-free updates.**
- **Complete visibility of warehouse, enabling additional maximum volume handling capabilities.**
- **User-friendly operational features for a state-of-the-art warehouse.**
- **The intelligent sensors provide the data needed in real-time to help manage current optimization and increase the optimization levels to drive higher revenues and reduce costs.**
- **Cameras attached to gateway used for Damage Detection.**
- **The above employed plans lead to automated and error-free process, giving the client what they visualized in the first place -- Improved stock turnaround ratio.**

TECHNOLOGIES USED

Node-RED, Python, RFID (Radio Frequency Identification), WSN (Wireless Sensor Networks), LPWAN, Bluetooth Low Energy (BLE), ZigBee, Message Queue Telemetry Transport (MQTT), Advanced Message Queuing Protocol (AMQP), Extensible Messaging and Presence Protocol (XMPP), AWS.