



IoT Sense

Smart, Scalable and Secure IoT platform

Supply Chain Management *and* Food Traceability

i Introduction

It is a pro-active intelligent traceability system that captures REAL-TIME DATA about temperature, time and location from products at the case level. This Platform will enable food supply chain participants to determine freshness quality immediately, shelf life and appropriate handling of each box delivered, raising the bar for product quality and safety.



This case study showcases The Intelligent Traceability platform built on Winjit IoT Sense



Customer

An international renowned food distribution company involved in shipping of food materials for restaurants, shops and processing centres.



Requirement

To provide food companies, their customers and final consumers with full transparency and traceability on product origin, production story, freshness quality, shelf-life, and other quality related parameters.



Challenges

Today, it's often impossible to verify that product is safe to eat, reliably packed and shipped or properly handled. It's difficult for customers to know the insights of the product that they are consuming, the product owner faces a challenge to raise a flag during quality check etc.



Solution

The Intelligent Traceability platform built on Winjit IoT Sense is a cutting-edge technology based on passive RF sensors that monitor in real time both temperature and location of food boxes at every step of the supply chain. Its "end-to-end" approach collects and distributes precise serialized data from each box in real time, providing for the first time both food companies, their customers and final consumers with full transparency and traceability on product origin, production story, freshness quality, shelf-life and appropriateness of single box handling through the seafood value chain.



Benefits

- ▶ Real time Supply Chain Overview
- ▶ Quality Management
- ▶ Product temperature History
- ▶ Food Traceability
- ▶ Producer information.
- ▶ Precise Inventory management
- ▶ Sales management tools
- ▶ Real time temperature notification
- ▶ Shelf life estimation & climate risk prediction
- ▶ Pallet at risk alerts
- ▶ Cold chain benchmarking
- ▶ Box level track & Traceability (GS1standard)
- ▶ Geo-fence editing tools
- ▶ Arrival alerts
- ▶ Supply chain analytics reports



Achievements

- ▶ Currently deployed application is very user friendly for different entities in business. This was rapidly developed as Winjit IoT Sense allowed easy and quick system integration.
- ▶ Its dynamic in nature and data synchronization facility is provided through Winjit IoT Sense
- ▶ Real time notification to product owners about any quality related issue.
- ▶ Customer can easily know the origin and quality graph of the product that they would be consuming.



Conclusion

The ability to collect information from every box and use it to enhance inventory management and ensure product quality in "real time" provides tangible benefits to the food industry. It provides a verified assurance of product origin, production story & quality and enables quick identification of problems; therefore, it can reduce cost and

spoilage. It also provides the mechanism for communicating to the buyers the diligence with which the business operates. Transparency of a supply chain network is important as all the stakeholders of the network have a shared understanding of access to product and process related information they requested without loss, noise, delay and distortion. Transparency enables them to achieve efficient recalls on the chain level when necessary and support early warnings in case of a possible emerging problem through a pro-active quality monitoring system to optimize the supply chain.

IoTSense is a smart, secure and scalable software gateway platform which enables businesses to move from traditional technology implementation to smarter, real time and advanced technological transformation. It is best example of how legacy devices and existing eco-system can be transformed into smarter businesses.

IoTSense is powered by Winjit Technologies which is an award-winning technology company for providing IT product and solutions globally.



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