



A Comprehensive Transactional and Logistics Portal

Client Description:

- The client is a processor of recyclable materials primarily focused on obtaining electro-mechanical goods from consumers.
- The company once it has procured the goods, recycles the usable components and pushes them back to manufacturing food chain.

Business Challenge:

The client faced numerous operational challenges - planning, implementing and controlling the logistics, storage, and the recycling process.

A main activity in reverse logistics is the collection of the products to be recovered and the redistribution of goods. Although this problem resembles the standard forward distribution problem, there are some subtle differences like:

- problematic product packaging
- the presence of several collection points
- cooperative attitude of the sender
- lower value of goods.

Contrarily, time is a less pertinent problem.

Solution:

Triassic provided a complete storage, logistics, and recycling solution that is generic in the process but tailored to customer's specific requirements.

- The solution implements and controls the efficient, cost-effective flow and storage of raw materials, in-process inventory, goods and asset management service. This ensures that items are marked and returned to the right place, at the right time as good as new, with additional support information.
- By utilizing real-time data for pickup of recycling items, we maximized the use of components.
- Various elements had been included in the entire logistics and supply chain to realize a complete green and low carbon supply chain system through the whole life cycle. This is consistent through the entire process chain - from raw material sourcing to industrial design to production and delivery.

The solution follows a warehouse and inventory management process, which allows codes to be assigned to all incoming items and then tracked through the entire recycling process to the warehouse. Once the product condition is determined at the testing facility, it is appropriately disposed of (i.e. sent for restocking, refurbishing, salvaging or scrapping). This model achieves economies of scale at each level. It is also easier on the retailer, who doesn't have to sort returns or ship them to multiple locations, as well as the credit issuer, who has to issue credit at one time for multiple product returns.

Highlights:

With this application, the client efficiently:

- Managed Seamless collection process
- Maximized return on product investment
- Improved customer satisfaction
- Increased reliability and trust as a service provider

Business Benefits:

Triassic created a robust transactional and logistics portal for the client.

- Centralized testing and evaluation of the returned product at a central facility leads to the cost-efficient supply chain.
- Shipping costs were minimized by shipping the returns to the vendor in bulk.
- The solution enabled the recycling network to reduce its transport volume by 40% based on software optimization and reduced operational costs significantly.
- The solution is positioned to be a critical value creator for new sources of cost savings, new revenue streams and reputational strength.
- The solution established a blueprint towards a sustainable shift in how the business is managed.



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