

Project Proposal: SWATS - Separate Warehouse Archival Tracking System

Group 5 Team Members:

Paul O'Meara, Alex Gjurich, Jonathan Helms, Collin Rausch, Aaron Hong

Problem:

Warehouses are busy places and have a large logistical overhead that needs to be accounted for. Most warehouse management systems (WMS) are able to keep an order moving properly, but when orders get stored for immediate pickup, issues can arise. Most systems do not include functions for storing orders (dispensing orders) to hand to customers.

Completed orders stored within the warehouse can be tracked on paper, but the possibility for an order to leave the premises without proper sign out procedures increases as the scope of the business increases. The dealers from Caterpillar, a company that specializes in construction machinery and equipment machinery, are a prime target of interest for our project as they manage orders throughout the dispensing process through paper invoices.

How SWATS Addresses the Problem:

With proper tracking using our proposed system, Separate Warehouse Archival Tracking System (SWATS) warehouses are now able to figure out if a customer has received their product along with confirmation. Included with that the customer can track where the order has been.

SWATS also solves the problem of not having to manually write down product information. This leads to more efficient shipments and will help eliminate human error or products being lost. Overall this saves the company more time and money. Through the use of barcode scanners and a webportal, warehouse employees can scan in and bin orders all while having an electronic log of where that order has been and where it currently is.

Who Our Stakeholders Are:

Both large and small warehouses that need to manage order through the dispensing stage (i.e. FedEx, USPS, Amazon, etc). Customers of these businesses so that they can track their order progress.

Who Our Customers Are:

- Caterpillar Dealers - Large amounts of daily orders, many are dispensed to customers right in the warehouse.
- Warehouses that dispense products on-site.