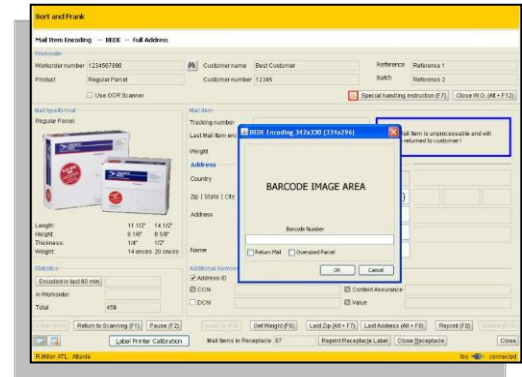# Automation of Logistic Management System

Executive Summary

This case study illustrates the complexities involved while performing different tasks on client's software system. This client of ours is a giant in logistics domain, dealing with providing customized solutions for bulk mails and parcels. The software system they had, kept track of all activities right from receiving the inventory till delivery. The system had to perform multiple tasks like clubbing homogeneous items, sorting and encoding via a number of different modules. So for better efficiency of the modules and the system as a whole, it required testing efforts every time a new built is released or minor changes made. To overcome this standard manual procedure, the client opted to automate the process and was on the lookout for an able offshore partner.

When Mindfire was approached for an end to end solution, our QA team was fast enough to respond to the client after having a look at their current system. Initially, the project started on pilot phase. After the client was satisfied with Mindfire's ability, it moved on to be a regular project of ours.

About our Client

Client Leading Logistics Service Provider worldwide | **Location** Georgia, USA | **Industry** Logistics

Business Situation

The client firm is a division of one of the top player in logistics domain. It deals in providing customized solutions for bulk mails and parcels. They have a complex software in place, to keep track of all the activities starting from, receiving till delivery of the bulk of mail items. The software system has a number of different modules which perform different tasks like, clubbing homogenous mail items into one category, encoding each mail item with the destination ZIP code etc while a bulk is received and delivered at the destination.

So an end-to-end scenario is a sophisticated process and every time a new built of the application is released or some changes are made here and there, it needed an enormous testing effort to ensure all the modules worked perfectly. In some modules, repetitive task was needed for some 2000/3000 times to generate input for the next modules. It becomes irritating for a person who performs this task manually. So they opted for automating the whole process of testing the scenario so as to, reduce testing effort, time and cost.

Solution Details
The Mindfire Solution

Mindfire Solutions suggested the client, to start with a pilot project to demonstrate their skills in quickly understanding the application and automating an end-to-end scenario with limited functionalities. Mindfire Solutions successfully delivered the pilot project in a month.

During the pilot project phase, the client was so much satisfied watching the progress of the automation team that he agreed to add many more functionalities to the pilot project. They called it version 1 script. Since then Mindfire Solutions has delivered many powerful scripts using hybrid framework.

Tasks performed by our automation engineers included writing automation test cases, designing framework, preparing function libraries and generating test scripts. Apart from this, all the delivered test scripts were maintained against every new release.

Achievements

The automation team at Mindfire Solutions has successfully completed the first version of End-to-End script and delivered it to the client. The team is gaining quick understanding of the application, sorting out the bottlenecks faced during the first version, and working to improvise the automation process.

The software system used by our client was a complex one for which our QA's had to face a lot of challenges. But, our QA team worked hard to reduce manual effort and increase efficiency.

Technologies
QTP.

Final Results
Software System

Customer Benefits

The client received a robust and efficient system in place that reduced consumption of time. Client was happy to see drastic reduction in effort (60% reduction) and time (80% reduction) needed to test the functionalities.

Future relationship

The client had good experience with Mindfire Solutions and decided to go on with Mindfire Solutions for his future testing needs.