

New Order Processing System Resulted in 50% Cost Savings for a Leading US Retailer



ATTENTION. ALWAYS.



aspire 
SYSTEMS
attention. always.

THE CUSTOMER

For nearly a century, our customer has been a market leader in manufacturing class rings, championship rings and personalized jewelry. They are famous for their state-of-the-art precision tooling used to create rings of champions. Retailers like Walmart, JCPenney, Zales, Amazon, Bluestem, sterling jewelers, etc. are their major tie-ups.



THE CHALLENGE



Having tied up with the top retailers, our customer was plagued with orders pouring in on a day-to-day basis. While a supply chain application was used to process backend order transactions, it failed in so many aspects like reliability, maintenance, scalability, etc. The other big issue was frequent shutdowns which led to inefficient processing of orders seamlessly. Maintaining & processing high volumes of orders was the major challenge they were facing with their existing legacy application.

THE SOLUTION

The client was in dire need of a new order processing system. Thus, Aspire combined product engineering experience, industry expertise, technical expertise, agile development approach and the ability to ramp up resources at the offshore center to augment and accelerate product engineering and development.



In keeping with their philosophy of producing products that celebrate the pride and passion of achievement, our client will continue to make a massive impact in value-driven products for their customers across industries and sustain leadership in the industry.



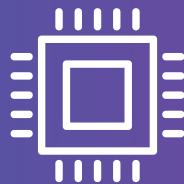
BEST PRACTICES

TECHNOLOGY SNAPSHOT

Initially the client was using an application that handled & processed only Walmart's orders and also failed in numerous aspects. To overcome these grave challenges, Aspire implemented Retail Order Processing (ROP) system which uses AWS services like SWF, SES, EC2, ELB, S3, CloudFront, etc. This system handles all the documents that are being exchanged between our customer and Walmart. Enhancements were made to process orders of two more retailers JCPenney and Bluestem. Aspire suggested and implemented the generic order processing system for more retailers like Zales, Amazon and BlueStem. Even in future if any retailer is added, the system can process it with minimal changes.

The new Order processing system contains three applications:

- 1 Endpoint:** Handles Order request, Order status, Confirmation or Shipping documents.
 - 2 Decision Monitor:** Monitors if any workflow has been created in AWS.
 - 3 Workflow:** Retailers get to have a separate interface to process an input document.
 - 4 Reporting:** SSRS reports helped clients in Order comparison with AS400, OrderStatus, ShippingConfirmation, etc.
- ➔ Product development uses the Agile Methodology.
 - ➔ Created wiki pages for all implementations on Confluence site for workflow transparency.



The system was implemented by using Microsoft technologies, with the use of the AWS SDK for .NET.

Tools:

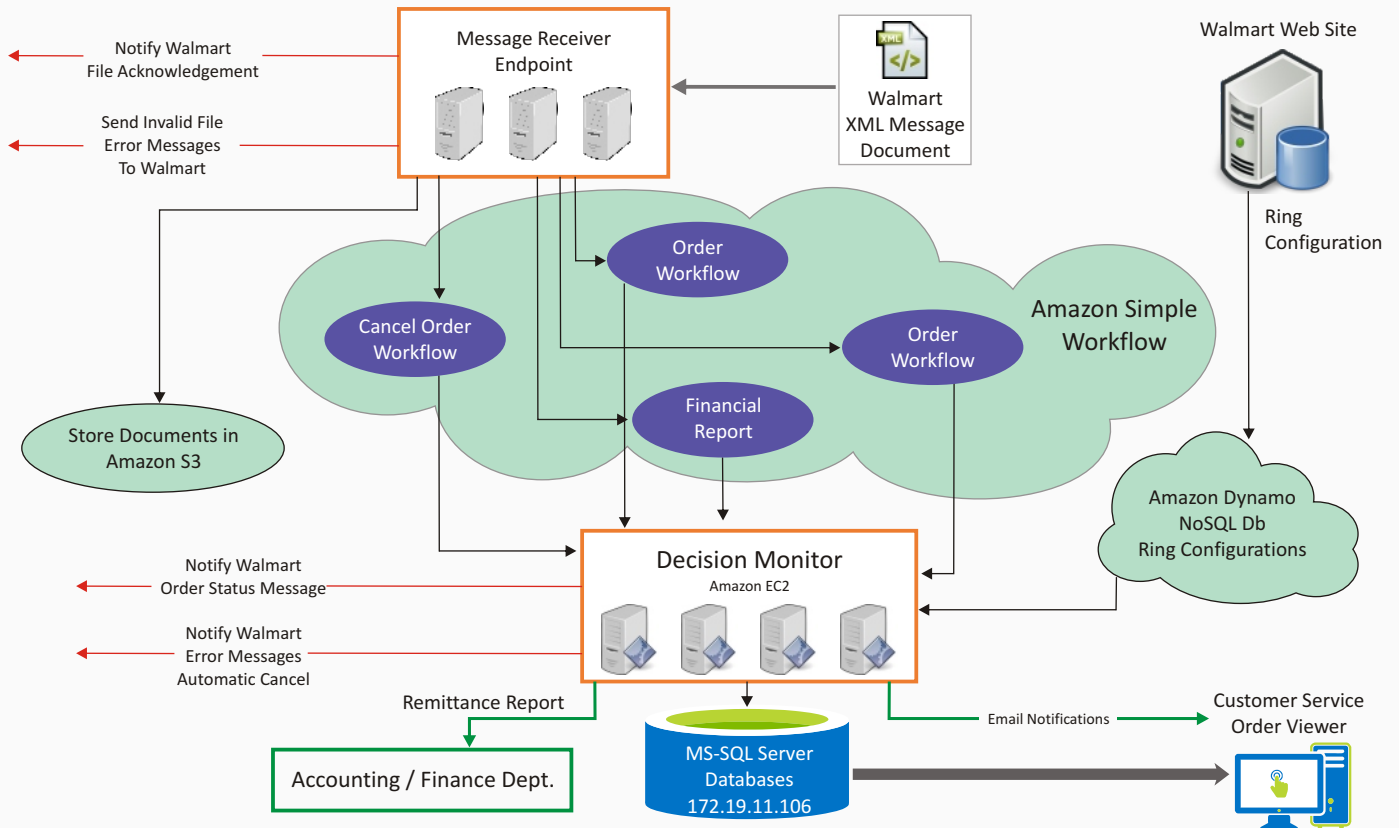
- Visual Studio
- Jenkins
- Resharper

Software:

- ASP.NET 4.6.1
- Web API
- AWS Services
- SQL server 2012

The Solution: Walmart Order Processing System

Workflows - Scalable, Loosely Coupled, Distributed Order Processing System



RESULTS & ROI



The end-to-end services offered by Aspire provided continuous improvements for the client's products. These engagements let the client to focus more on their business where they achieved faster time to market, delivered quality products, augmented product engineering and development, reduced cost by 50%, improved financial risk management, and met customer requirements.

FUTURE IMPACT



In keeping with their philosophy of producing products that celebrate the pride and passion of achievement, our client will continue to make a massive impact in value-driven products for their customers across industries and sustain leadership in the industry.

www.aspiresys.com



ATTENTION. ALWAYS.



ABOUT ASPIRE

Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

SINGAPORE
+65 3163 3050

NORTH AMERICA
+1 630 368 0970

EUROPE
+44 203 170 6115

INDIA
+91 44 6740 4000

MIDDLE EAST
+971 50 658 8831

For more info contact
info@aspire.com or visit www.aspiresys.com

