



# Case Study

**Legacy Migration to  
Distributed Computing  
Environment for a Large  
Distribution Company  
in the US**

**Sonata Software Limited**

[www.sonata-software.com](http://www.sonata-software.com)

## Sonata helps the customer, a large distribution company in the US, migrate to a distributed computing environment

*The customer, a large distribution company in the US, had been using a legacy Order Processing System based on IBM mainframe. This system not only made maintenance of orders difficult but also rendered the process of order procurement unmanageable. Sonata helped the customer migrate to a distributed computing environment, helping it tide over both these challenges.*

### Customer Profile

The customer is a large distribution company and a fully-owned subsidiary of a leading retail chain in the US. With 13 distribution centers spread across the US, the customer's major areas of operation are cigarette processing and confectionary handling.

### Business Scenario

The customer had been using a legacy Order Processing System based on IBM mainframe, due to which maintenance of orders was becoming difficult. Also, since the inventory was not updated online, order procuring was becoming unmanageable.

To overcome these business challenges, the customer planned for a gradual move to a distributed computing environment with Unix boxes and the IBM mainframe.

### Scope of Work

Sonata undertook the full cycle project for the customer, executing the following:

- Requirements Analysis
- Design
- Coding
- Unit Testing
- Integrated Testing
- Implementation Support

### Solution Delivered

Sonata implemented order processing and order maintenance functions for the customer.

The customer's application required a new functionality for Order Processing System through the use of a re-usable framework. Also, some functionalities of the eWMS were customized to suit the requirements of the customer's warehouse. These functionalities included order validation, load assignment, pricing, allocation, pick confirm, ship confirm, order maintenance and creation of order.



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### SOLUTION OVERVIEW

#### Profile

Sonata Software, headquartered in Bangalore, India, is a leading IT consulting and services company. Sonata's customers are located across the US, Europe, Middle East and the Asia-Pacific region. Its portfolio of services includes IT Consulting, Product Engineering Services, Travel Solutions, Application Development, Application Management, Managed Testing, Business Intelligence, Infrastructure Management and Packaged Applications. As per the industry rankings released by NASSCOM for FY07-08, Sonata Software figured among the Top 20 IT Software and Service Exporters in India. Sonata Software has also been ranked global #2 in the 2008 Top Ten ESO: Outsourced Software Development in The Black Book of Outsourcing.

#### Website

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#### Scenario

Migration of the customer's legacy Order Processing System, which was based on IBM mainframe, to a distributed computing environment.

#### Tools and Technology

- eWMS
- MQSeries

#### Benefits

- Improvement in order fulfillment process
- Better management of warehouse processes through effective interface with the WMS
- Workbench for order manipulation for customer service representatives
- Faster reporting to the customer on order receipt and processing
- Re-creation of past orders in the event of lost shipments

The customer's legacy system received orders through an order collection system that included electronic data interchange. The received orders were then passed on to the Order Processing System through MQSeries. The application had an MQ interface with the legacy system through Java MQ interface. The Order Processing System processed orders and their details were passed on to the legacy system to handle the warehouse operations.

The application had a multi-tier architecture with Web server serving the UI layer, Business server catering to the business logic, Data server taking care of the data base access, Master server handling MQ interfacing to legacy system and the Database system tending to the data storage needs.

### Project Metrics

Size : 60,000 lines of code (LOC)

Effort : 90 mm (including implementation support)

Elapse time: 5 months

Peak team size: 25

### Tools & Technology

eWMS
MQSeries

### Business Benefits

Sonata delivered the following business benefits to the customer:

Improvement in order fulfillment process

Better management of warehouse processes by providing seamless interface with the WMS

Workbench for order manipulation for customer service representatives

Faster reporting to the customer on order receipt and processing

Re-creation of past orders in case of lost shipments

For more information, contact [info@sonata-software.com](mailto:info@sonata-software.com)

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