

3PL QAD Integration Intuity Medical, Inc

Project Summary

Intuity Medical, Inc decided to use Shopify as the Customer e-Commerce portal for ordering the POGO meters and cartridges and DCL as 3PL (order fulfillment) system. The requirement was to design and develop the integration between QAD and 3PL (Orders Fulfillment) system to capture the order fulfillment and shipment transactions from 3PL to QAD and maintain inventory accuracy.

Arista performed the requirement gathering, interface design and development of the interfaces.

Integration Tools



1. **BOOMI:** Middleware tool for integration with 3PL and transaction mapping into QDOC format.
2. **QXTEND:** I/O tool for processing inbound and outbound transactions with QAD.

File Formats



1. **3PL File Format:** .json
2. **QAD File Format:** ..xml (QDOC).

Challenges Faced

1. The .json file received from the API call to DCL had multiple pages. Challenge was to read all the orders in multiple pages
2. Mapping of multiple cartons and tracking numbers in the .json file to the pending invoice lines and custom fields mapping was a challenge in BOOMI.
3. Multiple changes to the mapping logic.
 - Capture multiple shipment tracking numbers from the orders file
 - Serial Number Mapping for the Meter parts
 - Compute and capture the different in previous and current order quantity and value for analysis. % drop of increase in the order quantity.

Key Activities Performed

1. **Analysis:** Understanding 3PL .json file formats and data elements.
2. **Design:** Mapping requirement specifications and custom API's design for validating Ship-To addresses, duplicate invoices and generalized code setups.
3. **Execute:** Develop and test BOOMI and QXTEND interface mapping with QAD setups.
3. **Deploy & Support:** Promoted the successful verified interface and components into production and ensured for smooth integration transition post deployment.

Key Interfaces Designed

1. **Orders/Shipment data (Inbound):** Orders/- Shipment data from 3PL mapped to QAD Pending invoice maintenance
2. **Capture additional shipping details (Inbound):** 3PL Orders/shipment data mapped to QAD custom maintenance screen for analysis purpose.
3. **Inventory transfer (Outbound):** QAD Inventory transfer to 3PL location as PO Notifications in 3PL.
4. **Inventory Snapshot (Inbound):** Items data from 3PL and stock status from QAD to generate Inventory snapshot report.

Benefits

1. Integration of DCL orders to QAD pending invoice captures the shipping data into QAD every 15 mins. This saves time by eliminating duplicate data entry and reduce paperwork.
2. Reduced efforts in inventory reconciliation between DCL and QAD.
3. Increased efficiency in Invoice processing
4. Capturing of additional shipping details helps in further analytics on 3PL performance, Customer trends, sales etc.

About Intuity Medical, Inc

Intuity Medical, Inc, headquartered in Fremont, CA, was founded with the mission of simplifying diabetes management for persons living with diabetes. Intuity Medical have developed the first automatic blood glucose monitoring system designed to make testing easy, convenient andS

Through innovative and proprietary technology, Intuity's POGO® Automatic™ Blood Glucose Monitoring System aims to transform blood glucose testing. The meter is designed to give patients greater discretion and flexibility to test anytime, anywhere.

Intuity Medical team has been intimately involved with diabetes for many years. Intuity Medical developing a vastly simplified blood glucose monitoring system that eliminates a majority of the most common barriers to testing.

About Arista Consulting, LLC

Headquarters in Michigan, USA, Arista Consulting is an IT Service Provider focusing on QAD Application Consulting and process automation solutions around enterprise application. Established in 2014 with consistent growth rate year on year, & servicing customer across various domains such as, Industrial, Food & Beverages, Automotive and Pharmaceuticals. We have global development centers in Hyderabad and Mumbai, India which allows us to provide cost effective and round the clock services to our global customer base.

