

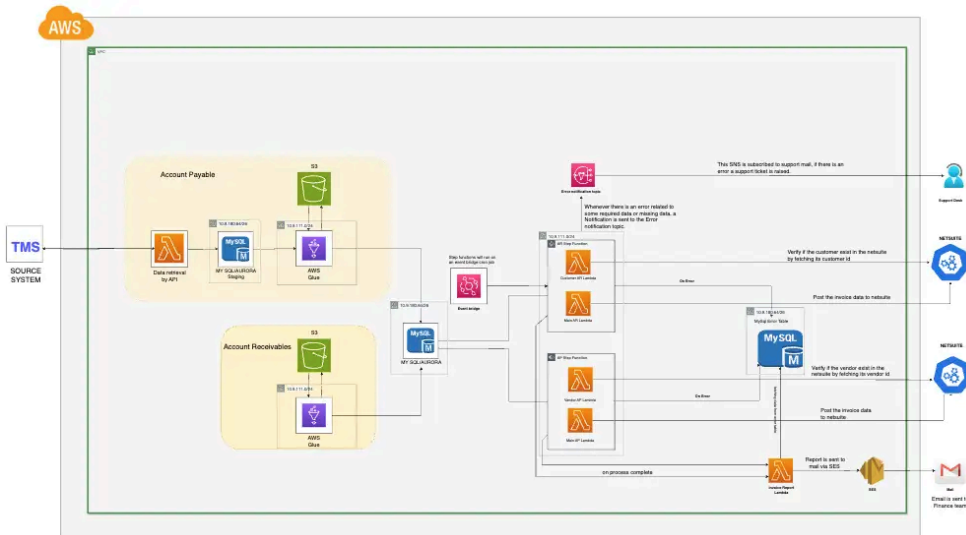
Executive Summary

Bizcloud partnered with Omni Logistics, and successfully enhanced their financial transaction management by integrating multiple invoicing systems with NetSuite. The main objective was to streamline invoicing operations, improve data accuracy, and enhance financial oversight. This was achieved through the following steps:

- 1. Data Extraction from Multiple Systems:** Omni Logistics manages invoices from several source systems including COTS and Vendor Hosted Applications. To consolidate these, invoices are extracted from an RDS database, ensuring accurate financial transactions.
- 2. Middleware Platform Transfer:** In partnership with Bizcloud, extracted invoice data from E-pay and other systems is routed through a custom middleware platform for processing and management.
- 3. Integration with NetSuite:** Using a payload that supports NetSuite's REST API, the processed invoices are transferred to NetSuite, allowing for seamless financial consolidation and enabling accurate profit and loss calculations.

This integration has significantly improved Omni Logistics' invoicing process, enhanced data accuracy, and provided better financial reporting.

Architecture Diagram



About Omni Logistics



Omni Logistics is a privately owned global 3PL provider. As one of the world's leading privately held 3PL providers, they specialize in providing unique, custom supply chain solutions for a long list of global clients.

They are headquartered in Dallas, Texas.

Company Overview

Omni Logistics specializes in providing a collaborative, consultative approach to unique logistics challenges around the globe. They offer multi-level freight forwarding, warehousing & distribution, and value-added services to manage your supply chain.

Omni has decades of experience solving logistics problems in multiple industries including high-tech, medical, and retail. Omni helps in navigating customers through ever-increasing intricacies in global supply chain, providing full visibility and communicating at every step of the way.

Results

BizCloud automated the AR and AP invoice processing workflows for Omni Logistics, integrating their MySQL databases with NetSuite. The solution enabled efficient validation, upsert operations, and error handling for both customers and vendors. AR and AP lambda functions processed customer/vendor IDs in batches, verified internal IDs in NetSuite, and updated or inserted records as needed. Main AR/AP functions created and sent JSON payloads for invoices to the NetSuite sandbox and updated records based on processing status. Error reports were generated for failed transactions and shared with the finance team, streamlining the overall process.

AWS Services

- Amazon RDS
- Lambda
- API Gateway
- EventBridge
- CloudWatch
- Simple Notification Service(SNS)
- S3
- AWS Glue
- SES

Solution Overview

The AR (Accounts Receivable) and AP (Accounts Payable) invoice processes for Omni involve three key steps that streamline the transfer, processing, and integration of invoice data between COTS Management System and NetSuite. These processes ensure accurate invoicing and financial management by utilizing AWS services and NetSuite API integration.

AR (Accounts Receivable) Invoice Process:

1. Management System Data Transfer (S3 Data Lake, MySQL/Aurora): Invoices from the Management System are transferred to an S3 data lake and then loaded into an Aurora MySQL database for further processing.
2. Vendor Matching
A step function retrieves all Vendor IDs from the Aurora MySQL database and checks for their match in the NetSuite sandbox. If a match is found, the customer's internal ID is fetched and updated in the database with a processed date. If no match is found, the record is flagged
3. Invoice Creation
Once Vendor IDs are updated, the step function triggers a lambda function that fetches and generates JSON payload. It is used to create an invoice. If successful, the record is marked as Updated. Otherwise, an error report is generated and emailed to the finance team.

AP (Accounts Payable) Invoice Process:

1. Management System Data Transfer (S3 Data Lake, MySQL/Aurora): Similar to the AR process, invoices from the Management System are transferred to the S3 data lake and loaded into the Aurora MySQL database.
2. Vendor ID Matching
The step function retrieves vendor IDs from the MySQL/Aurora database and checks for their existence in the NetSuite sandbox. If found, the vendor's internal ID is fetched and updated in the database. If not, the record is flagged accordingly and a processed date is added.

Invoice Creation

Once vendor IDs are updated, Step function triggers a lambda function to fetch vendor data, create a JSON payload, and send it to the NetSuite API to create an invoice. Upon success, the record is flagged, and any errors trigger an error report lambda that sends a CSV file to the finance team via email.

About BizCloud Experts

BizCloud Experts is recognized as a leader in developing solutions using Serverless computing technologies, and automating IT services. We innovate, transform and seamlessly blend digital and physical platforms. To learn more, visit our site, follow us on Facebook, Linked-In, Twitter, call us @+1 (214) 206 8976 or email sales@bizcloudexperts.com.

