

Implementing Oracle Transportation Management (SaaS) for UD Trucks for Smooth On-Road Navigation



Overview

As part of their overall digital strategy and systems modernization roadmap, UD Trucks wanted to replace their existing Logistics system with a digital transportation management systems (TMS) application to manage their outbound logistics movements and operations. UD Trucks selected Tech Mahindra as their preferred partner for this logistics application modernization project and subsequently Tech Mahindra helped implement the best of breed cloud TMS solution to manage UD Trucks outbound logistics movement in countries including Japan, Thailand, and South Africa.

Client Background and Challenge

Our client UD Trucks is a Japanese company whose principal business is the manufacturing and sales of diesel trucks, buses, bus chassis and special-purpose vehicles. Its headquarters are in Ageo, Saitama, Japan. The company is a wholly owned subsidiary of Isuzu since 2021. The company's manufacturing locations are based primarily in the South Asian region including countries like Japan and Thailand. The sales operation of the Company spread across the globe including different geographical regions like Europe, North America, Asia.

Before the inception of this project, the outbound logistics operations for the customer were handled by a home-grown logistics system. However, this existing system was not in alignment with the overall digital strategy of the organization and some of the key challenges which the customer faced were as below:

- ▶ Old and archaic system to manage outbound logistics.
- ▶ Largely rigid system with point-to-point integration with different other surrounding systems like order management, financial using IBM MQ-Series.
- ▶ Largely manual processes and dissimilar processes across countries.
- ▶ Lack of global visibility and reporting of the outbound movements.
- ▶ Tight implementation timelines to move to a new transportation system as UD Trucks was separating from its parent organization VOLVO.

Our Approach and Solution

After evaluation of multiple transportation management systems (TMS) The customer had zeroed down to the implementation of Oracle transportation management cloud solution, which is one of the leading TMS according to the leading analyst report. The scope of the Implementation included.

- ▶ Sunset of the existing logistics system.
- ▶ Implementation of the Oracle transportation management SaaS-cloud (OTM) for the outbound logistics in Japan, Thailand, and South Africa.
- ▶ Implementation of key modules of OTM.
 - Order Management (Including Order Movements)
 - Sourcing and Shipment Planning (Transportation Operational Planning Cloud Service)
 - Shipment Execution and Visibility/Event Management
 - Freight Settlement and Payment
 - Fleet Management/Fleet Work Bench
 - Yard Management
 - Transportation Intelligence
- ▶ Logistics processes.
 - Domestic Direct Shipments
 - Domestic Multi leg Shipment
 - International Multileg Shipments
 - Distribution for Outbound processes (Direct Shipments and Multileg Shipments, Domestic Multi Leg Shipments)
- ▶ Transportation Modes: Land, Sea.
- ▶ Integration with Project 44 Visibility Tool: Support UD trucks in enabling and testing the out of the box integration of Project 44 with OTM.
- ▶ Integration of OTM cloud with customer's surrounding systems and supply chain partners.
- ▶ Global visibility and reporting.
- ▶ Oracle cloud integration with IBM MQ Series.

Implementation Approach (OUM Methodology)

Tech Mahindra's implementation team consisting of highly experienced OTM solution architect and consultants reviewed the existing logistics system of the customer along with the associated integrations with surrounding systems. After a structured review of the existing systems and UD Trucks business requirements, the team put in place global transportation best practices and completely automated the logistics processes. Some of the other key solutions provided included.

- ▶ TechM's pre-configured and accelerated solution/framework on Oracle transportation management.
- ▶ OTM cloud implementation across the 3 countries with 2 control towers.
- ▶ Implementation of all the core modules of OTM including order management, shipment planning, execution, and freight settlement.
 - Order Management (Including Order Movements)
 - Sourcing and Shipment Planning (Transportation Operational Planning Cloud Service)
 - Shipment Execution and Visibility/ Event Management
 - Freight Settlement and Payment
 - Fleet management/ Fleet Work Bench
 - Yard Management
 - Transportation Intelligence
 - Internet of Things

- Logistics Network Modelling
 - Administration and User Management
- ▶ Implementation transportation sourcing and cloud only modules like LNM and logistics machine learning.
 - ▶ SSO integration with MS AZURE AD.
 - ▶ Integration with different systems using Oracle integration cloud services.
 - ▶ OIC integration with IBM MQ Middleware.
 - ▶ Integration with external apps–CGA CMA, Oracle IoT fleet, and GPS services.
 - ▶ Complex business processes–direct shipment, multi-stop, and multi-leg (vessel shipments).
 - ▶ Integration with multiple internal legacy system.
 - ▶ Fusion transportation Intelligence implementation.
 - ▶ OTBI, BIP reporting - mapping of standard report, design, and implement critical custom reports.
 - ▶ Documentation of details (detailed solution design, configuration workbook, integration architecture, training and testing documentation, data migration).

Business and Community Impact

With this implementation of Oracle transportation management, UD Trucks is all set to achieve the following key benefits:

- ▶ Sunset of the existing and smooth transition to the new system.
- ▶ Single harmonized and automated transportation processes across all the countries - Japan, Thailand, and South Africa.
- ▶ Global visibility of shipments across the supply chain.
- ▶ Transportation mode optimization and cost saving.
- ▶ Operational efficiencies.
- ▶ Operational and KPI reporting.
- ▶ Real time integration with GEBIS/ carrier system.

To know more, reach us at TOP.Marketing@TechMahindra.com

TECH
mahindra



Brand Finance®
Awards

TOP 10
STRONGEST
IT SERVICES BRAND



Brand Finance®
Awards

FASTEST-GROWING
IT SERVICES BRAND
IN BRAND VALUE RANK