



# Transportation Package

- ▶ Dynamics AX 2012 R3
- ▶ Dynamics 365 for Finance & Operations

Robust suite of **powerful add-on tools** that **simplify** transport route planning and assist with delivery network **optimization**

ICS Transportation Package was developed for Microsoft Dynamics end-users – manufacturers, wholesalers, distributors, logistics and postal services providers, and other companies that operate complex transportation networks and are faced with a challenge of their optimization to reduce total delivery costs and provide better customer service. The Package allows to achieve this objective in an easy-to-use yet flexible, functional way. It fully integrates into the Transportation Management module and further extends its functionality with a host of unique features and tools.

## OVERVIEW

Over the years ICS team has amassed a wealth of experience in ERP implementations and customizations for numerous customers in the manufacturing and logistics industries. It is exactly through the collaboration with these end-user companies that the Transportation Package was created to address some key challenges that businesses in these verticals face in their day-to-day operations.

The Package expands the standard functionality of the TMS module of Dynamics AX 2012 R3 / D365FO and provides users with unique new features for dynamic route planning and delivery network optimization.

## KEY FEATURES

### Optimal Route Building Solution

Build in real time an optimal delivery route and perform its visual analysis

### Transport Routing Solution

Plan cargo trips for a large number of orders for delivery by vehicles with different carrying capacities

### Multi-Echelon Delivery Network

Plan and optimize transportation routes in a multi-echelon delivery network

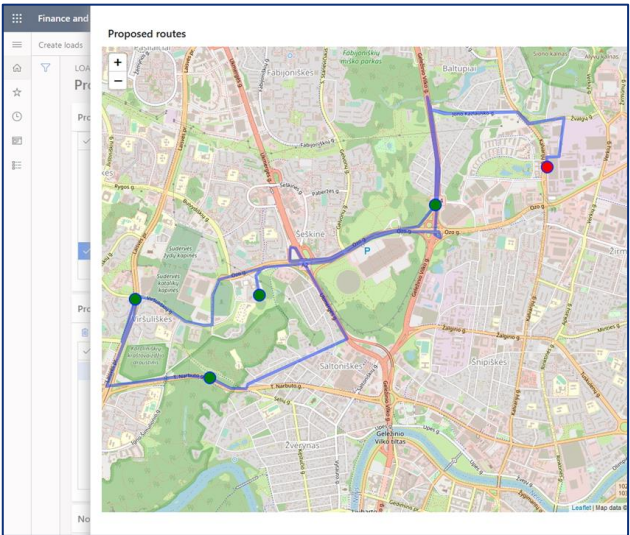
### Mobile Application for Drivers

Access all necessary cargo and delivery info in a mobile app, view the created routes and synchronize the data with your GPS navigator

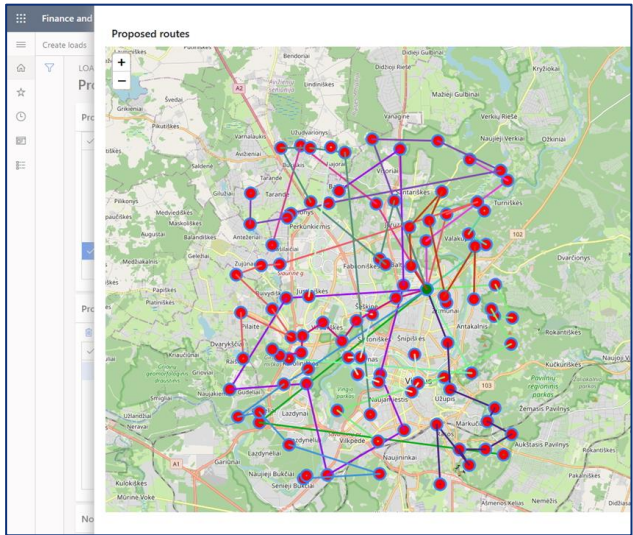
## KEY BENEFITS

- ✓ Considerable reduction in route planning time
- ✓ Greatly simplified overall workflow
- ✓ Decreased operating costs through reduction in mileage, driving time and the number of vehicles used (and/or driver shifts)
- ✓ Improved customer service
- ✓ Ease of use through full integration into Dynamics AX 2012 R3 and D365FO environments

**1 Optimal Route Building Solution**  
 This solution creates an optimal route for the delivery of goods to the recipient of the cargo trip. The route is built either by using previously calculated transit time or distance between logistics hubs (where each counterparty's delivery address is associated with a hub), or by using the data obtained from the cartographic services (OSRM, Mapbox). The solution provides the ability to perform a visual analysis of the constructed route, while the calculation of transportation costs is implemented using the data associated with the generated route.



**2 Transport Routing Solution**  
 This solution allows to plan cargo trips for a large number of orders for delivery by vehicles with different carrying capacities in the most optimal way (i.e. with minimal transportation costs). The planning functionality uses two strategies that calculate the vehicles' filling rate on trips according to volumetric weight and the number of containers. It also allows you to take into account different sets of parameters when assigning orders to cargo trips (opening hours, order delivery time windows, vehicle loading time, etc.) and perform a visual analysis of planned cargo trips.



**3 Multi-Echelon Delivery Network Solution**  
 The solution optimizes transportation routes in a multi-echelon delivery network to allow consolidation of shipments at intermediate points on the route to ensure that vehicles with an optimal carrying capacity are used and total delivery costs are thus reduced. The solution allows to perform vehicle routing calculations sequentially for each delivery tier – both automatically and manually.



**Mobile Application for Drivers**  
 A mobile app based on MS Power Apps platform that allows drivers to view the planned routes and access full cargo details (delivery addresses, time of arrival, volume and weight of goods, etc.). It also provides the ability to build the route in a GPS navigation system and for the driver to regularly update the status of delivery.



Industry Consulting Service (ICS) is a Microsoft Certified Partner and an innovative provider of consulting services in the areas of ERP development and business re-engineering with software solutions that are part of the MS Dynamics ERP products family.

With its head office in Poland and the main development center in Belarus, ICS has a global team of more than 40 senior AX and D365FO developers and consultants. All of our employees are Microsoft Certified Professionals and have vast project experience in Transportation Management, WHS/WMS, Manufacturing, Retail, Trade & Logistics, and Finance domains.

No matter what ERP challenges you are facing, you can count on us!

