



Intelligent Route Planner 8.00 in Microsoft Dynamics NAV

BENEFITS

- **Reduce costs of your distribution.** Optimizer will help you reduce number of vehicles used for daily deliveries and total driven distance.
- **Delivery scheduling.** *Intelligent Route Planner* will assign customer orders to vehicle routes taking into account factors such as customer access constraints, time windows, truck constraints and driver hours.
- **Manage delivery time.** Routing software enables customers to request delivery times. Delivery time is automatically allocated to routes which are re-optimized to improve utilisation of resources.
- **Static and dynamic scheduling.** Get benefits and flexibility from real-time routing and scheduling system. Our system is able to schedule very large distribution and transport operations in real time.
- **Route Optimization.** *Intelligent Route Planner* is designed to address large, complex vehicle routing problems. The algorithm used in IRP is the holder of two world records in Vehicle Routing Problems registered by worldwide transportation organization SINTEF.

ANTEI Intelligent Route Planner is a tool designed to bring advanced intelligent route planning into Microsoft Dynamics NAV. Like NAV itself IRP uses the latest Microsoft technology to bring transport and route planning into the NAV application. This allows transport and delivery planners access to an easy to use planning tool based in NAV which utilises award winning route optimisation algorithms. IRP interacts with Google Maps and Bing Maps to retrieve geo locations for all your customers, locations, the latest distances and timings and visual and written route plans.

Self-L.	D...	Type	No.	Description	Quantity	Unit s...	Locat...
850001	102042	Item	70062	Sweet Lemon Shower ...	3	Carton	BLUE-A
850001	102043	Item	70062	Chocomania Shower C...	3	Carton	BLUE-A
850001	102045	Item	70062	Sweet Lemon Shower ...	3	Carton	BLUE-A
850001	102046	Item	70062	Chocomania Shower C...	3	Carton	BLUE-A
850001	102047	Item	70062	Sweet Lemon Shower ...	5	Carton	BLUE-A
C00060	102050	Item	70062	Sweet Lemon Shower ...	1	Carton	SILVER

The advantage of ANTEI IRP over standalone packages is that it is built into your Microsoft ERP solution and so all data is readily available, making reporting easy and maintaining interfaces between systems unnecessary.

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FEATURES

Role Centres	➤ Can be available for any and every role or user.
Multi Depot Route Planning	<ul style="list-style-type: none"> ➤ Automatically schedules deliveries from one or more depots. ➤ Flexibility to schedule 1000s of deliveries in seconds.
Least Cost Routing Algorithm	<ul style="list-style-type: none"> ➤ Scheduling and optimization based on customisable criteria and constraints. ➤ Driver scheduling takes into account Working Time Directive. ➤ Truck routing maps. ➤ Geographic cost profiling. ➤ Vehicle routing cost per km/mile and per hour.
Vehicle and Trailer Management	<ul style="list-style-type: none"> ➤ Can help choose lowest cost vehicle. ➤ Integration with Fixed Assets helps manage vehicles and trailers maintenance and services. ➤ Keep track of vehicles and drivers costs by integration with General Ledger and Resources.
Real-time Planning and Dynamic Scheduling	<ul style="list-style-type: none"> ➤ Provides real-time environment for planner and managers who must react dynamically to continuously changing operations. ➤ Automated real-time planning of work for vehicles and drivers. ➤ Optimal response to cancellations, last minute orders, redirections, etc.
Home Delivery Scheduling	<ul style="list-style-type: none"> ➤ Customer profiles and territories can be optimized at a strategic level. ➤ Real-time planning of delivery ensures orders fulfilment efficiency.
Load Planning	<ul style="list-style-type: none"> ➤ Includes sophisticated load planning software which can optimize the trucks load process. ➤ Includes factors like objects size, drivers qualifications, preferred loading sequence, multi-dropping, temperature control, etc.
Multi-Day Trips	➤ Supports multiday, international route planning.
HGV Calculation	➤ Includes HGV speed factors.
Optimisation	<ul style="list-style-type: none"> ➤ Allows different types of optimisation: <ul style="list-style-type: none"> ○ number of routes minimisation, ○ time minimisation.
Collections	➤ Antei IRP allows collections planning as well as deliveries.
Mobile	➤ Can be easily integrated with mobile devices



View - Routes

HOME ACTIONS NAVIGATE

Change Vehicle Change Employee Move Unassigned Routes Recalculate Time and Distance Check Route Route Details Show as List Show as Chart OneNote Notes Links Refresh Clear Filter Find

Routes

Type to filter (F3) Trip No. Filter: PT000017 - Planned

Trip	Vehicle No.	Employee	Distance [km]	Distance	Distance	Vehicle Capa...	Trailer Capac...	Max. Weight	Total Collect...	Remaining C...	Vehicle Caba...	Trailer Caba...	Max. Caba...	Total Collect...
PT000017	VEH400005	TE000007	398.53	247.63	MILES	18,000.00	0.00	2,249.00	0.00	15,751.00	41.18	0.00	27.68	0.00

Route Details

Position in Route	Delivery Point No.	Delivery Point Post Code	Distance	Break Time [min]	Planned Start Time	Service Time [min]	Planned Time
1	BR		0.00		0 04:45:00		0 04:45:00
2	DP000014	W1C 1JR	117.46		0 06:00:00	30 06:30:00	0 06:30:00
3	DP000015	W1C 1DS	0.50		0 06:33:00	30 07:03:00	0 07:03:00
4	DP000014	W1D 1BL	0.81		0 07:07:00	30 07:37:00	0 07:37:00
5	DP000013	W1B 9RZ	0.84		0 07:41:00	30 08:11:00	0 08:11:00
6	DP000010	SE1 9RG	1.03		0 08:16:00	30 08:46:00	0 08:46:00
7	DP000018	NW1 2RS	1.66	45	09:39:00	30 10:09:00	0 10:09:00
8	DP000012	EC3M 7PV	3.01		0 10:25:00	30 10:55:00	0 10:55:00
9	DP000011	N1 0PQ	2.54		0 11:02:00	30 11:32:00	0 11:32:00
10	BR		120.29		0 13:59:00		0 13:59:00

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Intelligent Route Planner is also available in the Microsoft Dynamics NAV classic client and previous versions.



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For more information about Intelligent Route Planner in Microsoft Dynamics NAV visit <http://www.antei-computers.com>