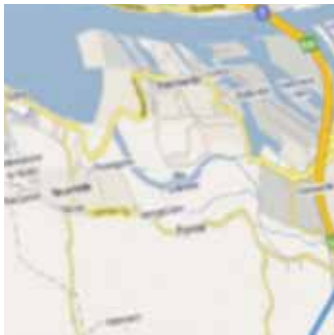
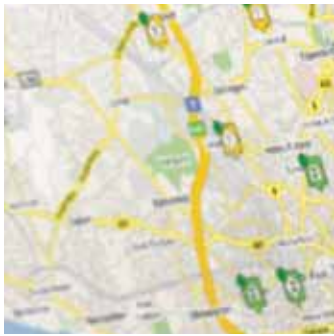




# Planned to perfection

Integrated Dispatch Management (IDM) –  
Tour planning and dispatching with SAP





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## Integrated Dispatch Management (IDM) – Tour planning and dispatching with SAP



IDM – Tour planning and dispatching with SAP

The trade and logistics industry is currently facing multiple core challenges, with the delivery times required by the market growing shorter and shorter. At the same time, however, the distances involved are increasing – as are fuel prices, personnel costs and the level of service demanded. As a consequence, businesses must now rely on intelligent transport planning and dispatching to optimize their margins.

The combination of SAP OGSD pre-dispatching and IDM (Integrated Dispatch Management) ensures optimum results from margins. The innovative SAP software solution IDM was developed by Implico, a consulting company specializing in logistics and SAP systems. Implico worked with practitioners from many companies to produce a unique, all-in-one solution for intelligent transport planning.

IDM helps dispatch planners create optimum tours: orders from SAP are combined with resources such as currently available vehicles, for example, to ensure the best possible results.

### Lower costs

Thanks to features such as real-time tour optimization, the solution effectively lowers transportation costs by reducing factors such as kilometers driven, drive time, vehicle use and overtime by up to 15 percent.

### Faster planning

Thanks to intelligent support from the system, IDM helps you reduce the time needed for planning and dispatching by up to 80 percent.

### Improved service

IDM enables you to minimize processing time for new orders as they come in. And, thanks to improved planning and greater transparency, available delivery deadline information becomes more reliable – shortening your response time and improving the quality of information you provide.



## Comprehensive features

IDM offers you a wealth of innovative tools and features to ensure intelligent and highly efficient transport planning and dispatching.

Key characteristics of IDM:

- Support for centralized and decentralized planning scenarios
- Internet-based application – available anywhere
- Clear schematic separation – mapping material and Gantt chart on separate screens
- Tour planning and dispatching on the basis of SAP orders
- Very user-friendly interface, enabling direct interaction with the geographic mapping material, Gantt chart and vehicles
- Intuitive usability = simple usability
- Visual presentation of relevant information provides maximum support for decision-making
- Integration of best-buy calculations into the dispatching process
- Multi-seat capability, incl. interaction between multiple dispatch personnel during planning
- Real-time optimization of planned tours
- Zero-modification SAP master data enhancements for planning-relevant objects (e.g. vehicles, customers, vendors and material)
- Automatic generation of necessary SAP documents
- Configurable document status management to ensure consistent SAP documents
- Integration of on-board/telematics equipment



### Intelligent calculation

All transport planning clearly has the same objective: the available resources must be deployed and combined as optimally as possible. This process is also significantly affected by numerous constraints: these may be special, customer-specific items or even stem from specific strategic corporate policies.

Highlights of IDM include the capability to accept a wide range of parameters and then apply these to the ensuing calculation or optimization.

Typical examples of such parameters include:

- Customer and vendor master data (addresses, time windows)
- Vehicle data (capacities, compartment sizes/types)
- Depot/terminal data
- Quota management
- Shift times, normal working times, overtimes
- Order data and size
- Stoppage time (loading/offloading)

- Fixed and variable costs
- Regions
- Priorities
- Pay scales
- Equipment required for loading/offloading (hose length, etc.)

### Support for all scenarios

For example, the following tour planning scenarios are supported:

- Planning of tours, shifts and multi-day tours
- Single- and multi-depot planning
- Depot-to-depot supply
- Optimum loading capacity check of bulk cargo for various vehicle types

### Support for all planning types

IDM gives you the maximum possible freedom for your planning: you define the level of system support you need to match your requirements. Manual, semi-automated or fully automated: with IDM you're assured of the best possible solution for your transport planning.



### Dispatch directly from SAP

No more manual transfers and time-consuming interface tuning for third party-software: with IDM you simply plan directly within SAP. Since the add-on is already based on SAP's ABAP language, this ensures smooth, secure and rapid communication between your dispatching solution, your ERP software and the SAP OGSD sales system.

Results available within the SAP system:

- Optimal tours, including vehicle resources assigned and the order of stops with the corresponding orders
- Minimal planning costs
- Geographical presentation of tours
- Tour as a SAP object
- Automatic generation of follow-on documents
- Integration of on-board equipment
- Maximum automation for processes via data collation from SAP OGSD

### Fully automated tour optimization

Together with our partner OPTITOOL, IDM provides you with a fully automated tour optimization system. The OPTEngine plug-in offers optimization at the press of a button, while taking more than 200 constraints into account. Cost-optimized tours are generated based on the available internal or third-party resources and pending orders.

In day-to-day dispatching, the user benefits from extremely short search times, scalable optimization functionality ("global", "partial" and "per tour") plus full SAP integration. When comparing manual tour planning against automated tour planning, using OPTEngine can reduce export costs by up to 15%.

Industry solutions available:

- Energy industry
- Foodstuffs
- Courier, express and parcel services
- Waste (domestic waste, containers)
- ... and many other sectors

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### Advantages at-a-glance:

- Acceleration of planning and dispatching processes by up to 80%
- Reductions to tour length, drive times, number of trips, overtime, etc...
- ...resulting in lowering of transport costs by up to 15%
- Calculation of effective setup, drive and unloading times in the planning process
- Constraint checking in relation to order, vehicle, etc.
- Improved transparency both during tour planning and in relation to vehicle costs
- Efficiency gains thanks to minimization of manual data entry
- Maximum flexibility for handling unavoidable short-term changes and new orders
- Improved customer service thanks to proactive exception management, reliable shipping status communication and improved punctuality for deliveries
- Simple simulation of multiple planning runs to produce comparisons
- Easy-to-read presentation of results in graphical and tabular formats
- Comparison of TARGET tours with real-world ACTUAL tours
- Consideration of constraints – such as loading time windows, for example
- Maximum flexibility assured by option of developing custom enhancements to the system
- Improved customer service due to improved transparency (waiting times, time buffers)
- Improved cost effectiveness, thanks to a greater degree of control for planners and dispatchers
- Improved economic efficiency thanks to real-time interaction between IDM and mobile devices (onboard computers, smartphones, handhelds)

The SAP IDM solution significantly improves the capabilities of your dispatching and tour planning. You can accelerate your planning, lower your transport costs and improve your service.

All of this makes IDM from Implico the perfect system for satisfying the current and future challenges facing the transportation industry.



### About Implico

Formed in 1983, Implico is an international software consultancy organization that supports numerous companies of all sizes in the optimization of their business processes. Headquartered in Hamburg, the Implico Group maintains branch offices in the USA, the UK, Switzerland and Malaysia.

Implico offers expert, end-to-end consultancy and implementation services for the SAP environment.

Currently enjoying dynamic growth, the Implico Group now employs around 250 staff.

