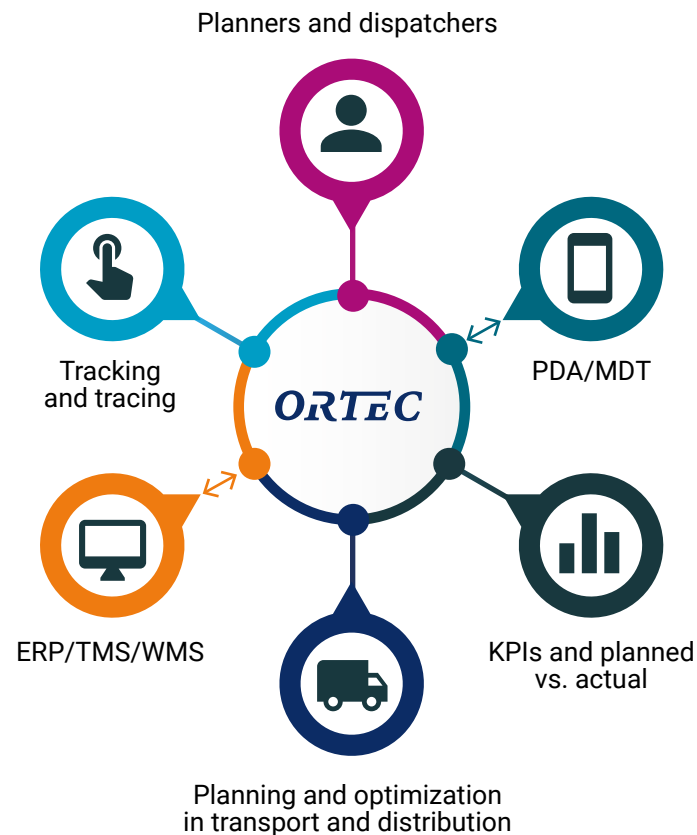


# Routing and Dispatch

An advanced planning solution for vehicle planning, scheduling and dispatch



# Safeguard the cost-effectiveness of your operations



## The challenge

Transport and logistics planners operate in a highly dynamic environment. Punctuality, reliability, and customer focus are paramount. At the same time, businesses face the challenge of retaining their current customer base in the face of ever-rising expectations.

## Our solution

ORTEC Routing and Dispatch is an advanced transport management application that helps you stay ahead of the game and meet these challenges full on. Using state-of-the-art optimization techniques, it safeguards the cost-effectiveness of your operations in a highly competitive industry. It's a fit-for-growth solution that strengthens collaboration between business units and within the supply chain, and delivers a rapid return on your investment. ORTEC Routing and Dispatch goes beyond the capabilities of ERP, TMS, or WMS systems. The solution is built on our decades-long experience working with a large number of transport and logistics companies. No one else can match our commitment to delivering the best routing product for the industry. Our customers include retailers, shippers, fourth party logistics providers (4PL), and logistics service providers (LSP). Our solution caters to every transportation requirement: less-than-truckload (LTL), groupage, bulk/liquid (compartmentalized), container trucking, intermodal, network providers, distribution, and express.

Plan process input

Capacity planning

Route scheduling

Resource assignment

Dispatch and Follow up

Management reporting

# A proven, fit-for-growth solution that makes a priority of delivering a rapid return on your investment

## Unique features

- Combine batch planning optimization with real-time dispatch and execution.
- Centralized and scalable architecture that supports both mid-sized distribution companies and the large, multi-site operations of logistics service providers, 4PL companies, shippers, and carriers.
- Handles all logistics requirements: FTL, LTL, container trucking, network providers, intermodal, distribution, and parcel express.
- Real-time event management with alerts for restriction violations, issue/event messages, and KPI monitoring.
- A true multi-user, multi-environment, real-time planning and dispatch application that runs 24/7.
- Embedded optimization techniques with multiple options for decision support, such as pick-up and delivery, distribution rounds, multi-modal route generation, resource assignment, compartment assignment, and optimal cleaning locations. These features are available in batch planning mode as well as proposal planning mode.
- Flexible resource planning (truck, trailer, driver, chassis, and container).
- Scheduler functionality to take business variables into account, keep track of resource status, locations and orders, and ensure that total multi-day planning is responsive while remaining consistent.

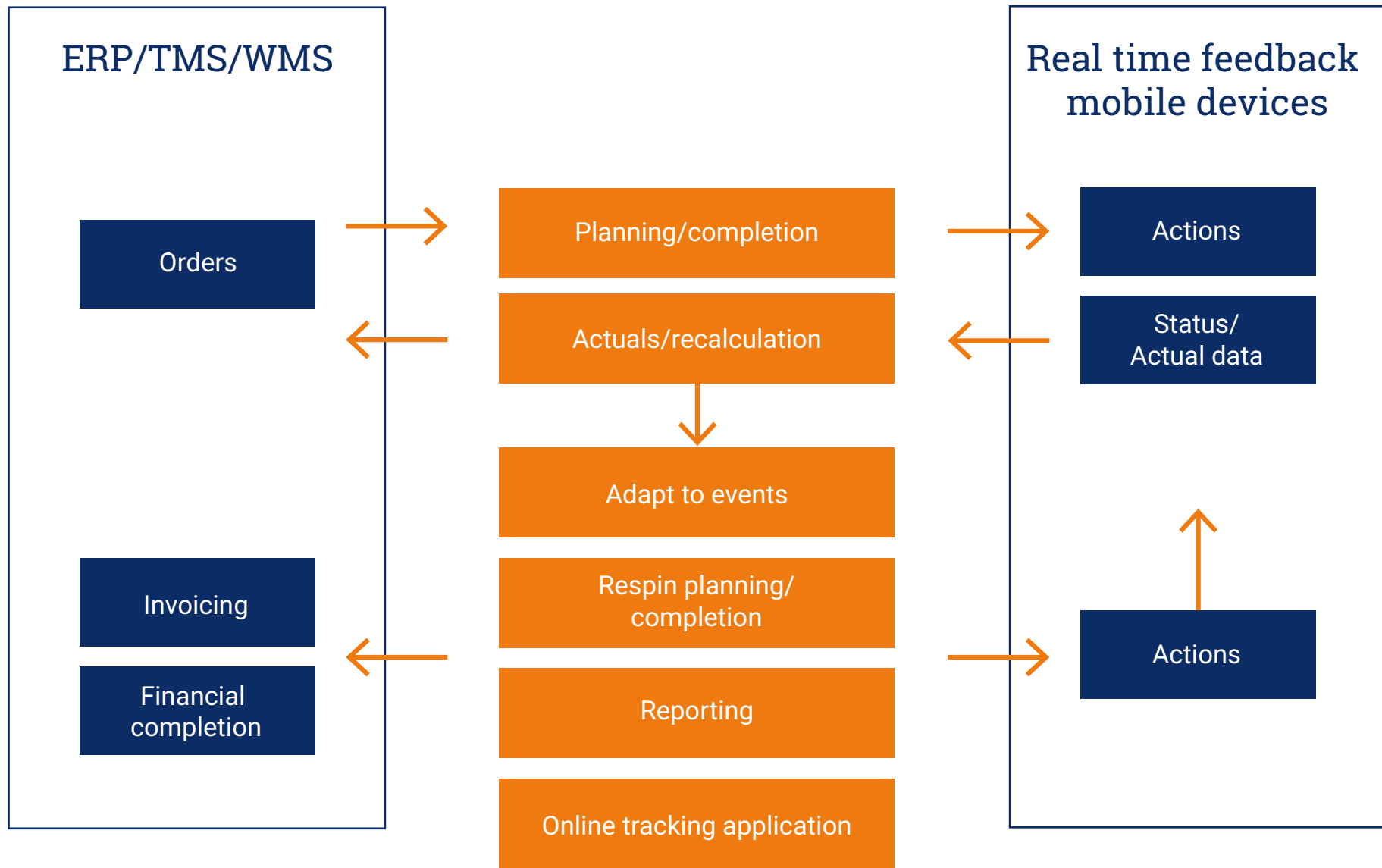


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# ORTEC Routing and Dispatch





## Additional features

The ORTEC scheduler and optimizers incorporate a broad range of business requirements.

- Traffic information to improve ETA accuracy
- Time restrictions
- Hours of service regulations
- Axle weight distribution regulations
- Hazardous materials/dangerous goods regulations
- Vehicle length, width, height, and weight route restrictions
- Cross-docking and the consolidation of transport orders
- The ability to incorporate compartment planning.
- Intermodal transport
- Fleet cleaning and maintenance schedules
- Road network editing enables you to update map data with useful information such as temporarily blocked roads, road speeds, and road designation changes (two-way to one-way)
- Integration capabilities to turn ORTEC Routing and Dispatch into an operational planning dashboard or transportation control tower
- Integration with mobile devices to share messages, GPS positions, planned actions, and confirmations
- Synchronous or asynchronous import and export of xml files via SOAP web services, if required.
- ORTEC Message Hub – a separate integration layer – facilitating the seamless integration between ORTEC Routing and Dispatch and your existing architecture or ICT environment

“ Our productivity has grown immensely thanks to ORTEC Routing and Dispatch, and we still perform our scheduling activities with the same number of planners ”





*“ We generate more business with less capacity using ORTEC Routing and Dispatch ”*

### **Audit trail of changes and security levels**

System security levels can be set to restrict multiple users from viewing and changing certain data or planning information. Security levels can also be used to allow access to modify the GUI (graphical user interface). Any system changes made by users can be tracked with an audit trail.

### **Integration of Tactical Routing results**

Share data between solutions. ORTEC Tactical Routing allows you to create territories and distribute delivery routes evenly. The result of this tactical calculation can be entered into a timetable for operational planning purposes. Daily orders are automatically assigned to territories or to pick-up and delivery routes.

### **Subcontractor payments using deviation reports**

ORTEC Routing and Dispatch can store sub-contractor agreements for planned routes as baselines and then use actual execution information to produce reports that highlight any deviations. This enables you to add deduction fees for delayed delivery times, or allocate bonuses where appropriate.

### **GPS-based tracking and ETA recalculation**

Compare planned routes versus actual routes driven.

### **Collaborative portals**

Role-based portals encouraging supply chain collaboration by providing easy to use views of the planning schedule and interactive, collaborative tools.

*“ Now that all trip information is passed on automatically, and we have an overview of all statuses 24 hours a day, our service and quality level has also increased! ”*



## Your benefits

- Horizontal collaboration increases, as business units share orders and resources.
- Centralized planning improves the load factor, reduces the number of empty miles, and decreases the number of vehicles on the road, lowering CO2 emissions.
- Transport costs decrease as a result of reduced distances, reduced driving time, and increased vehicle utilization.
- Less time required to plan and dispatch.
- More transparent route planning and vehicle costs.
- Greater capability to meet changes and short-term requests (e.g., rush orders).
- Quick simulation of alternate planning scenarios.
- Results overview in graphical and tabular form.
- Improved customer service with the automatic inclusion of restrictions, such as delivery slots.
- Strong ROI cases and references from the US, Europe, and Asia-Pacific.
- Save costs with centralized deployment. Maintain just one application with a single interface between ERP/ TMS applications and in-vehicle devices.
- Regular updates ensure you are always running the latest, innovative business features and optimizers.

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