

# Routing and Dispatch

An advanced planning solution for vehicle planning, scheduling and dispatch



Solution **ORTEC Routing and Dispatch**

## The challenge

Transport and logistics planners operate in a highly dynamic environment. Punctuality, reliability, and customer focus are paramount. They need to have clear communication with carriers, so they know exactly what's expected. At the same time, they need accurate location data on drivers to deliver according to plan. This can make a big difference to reduce costs and meet ever-rising customer expectations. Companies without this intelligence risk losing customers to the competition.

## Our solution

ORTEC Routing and Dispatch is an advanced transport planning system, offered as Software as a Service (SaaS), 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 is a fit-for-growth solution that strengthens collaboration between business units and within the supply chain, delivering rapid return on investment. ORTEC Routing and Dispatch goes beyond the capabilities of ERP, TMS, or WMS systems. But integrates seamlessly with any of them.

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 customer base includes world-leading retailers, shippers and logistics service providers.



- Modeling
- Operations
- Analytics



## Collaboration

Built for collaboration, ORTEC Routing and Dispatch enables you to share critical information with stakeholders at the right time and reliably, through the cloud. Shippers can communicate with their carriers, and share the planning they need to follow up. Drivers get clear instructions on what to deliver at each stop, using our mobile Driver app. Customers can track and trace the whereabouts of their orders and, if needed, submit feedback about deliveries. Shippers remain in control, monitoring all data from their control tower.

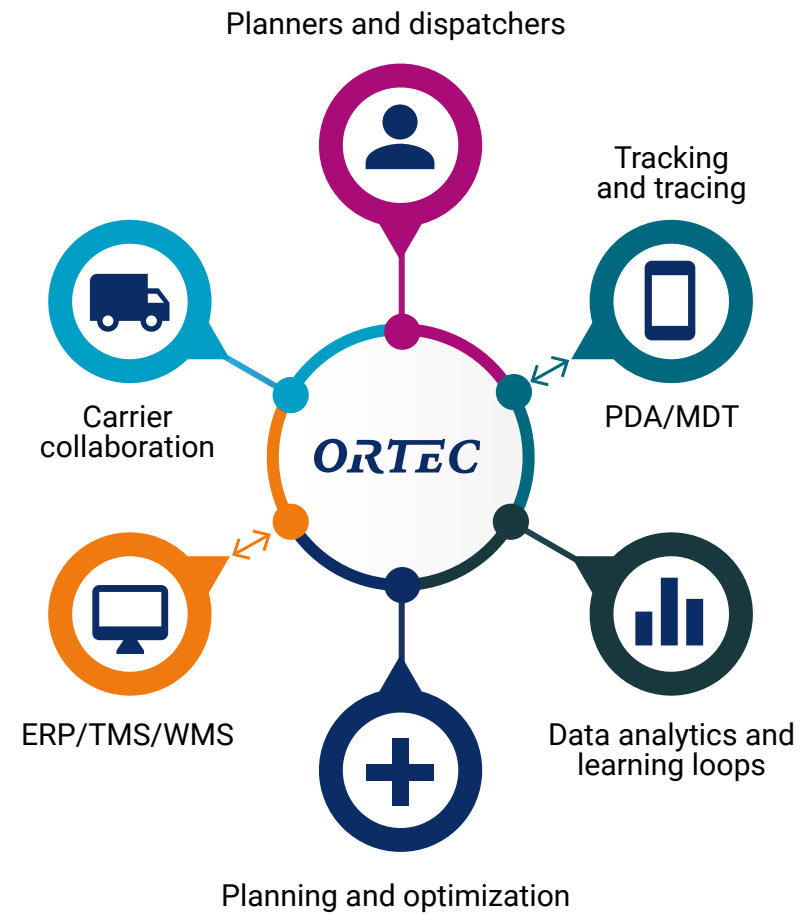
## Data-Driven Logistics

Transport planners make routing decisions every day. Their goal is achieving a robust plan that is cost-effective and executable for drivers. Many of their decisions are recurring; making them day-by-day can be taxing. Today, they don't have to waste time. Your team can use the data at hand to better support or automate decisions and improve the plan.

## Up-to-date map data

The latest SaaS release of ORTEC Routing and Dispatch supports cloud-based maps, with regular map updates, standard vehicle profiles and historical congestion data. You can be sure your routes will be based on accurate insights.

# Safeguard the cost-effectiveness of your operations



Plan process input

Prepare

Route scheduling

Resource assignment

Dispatch and Follow up

Management reporting

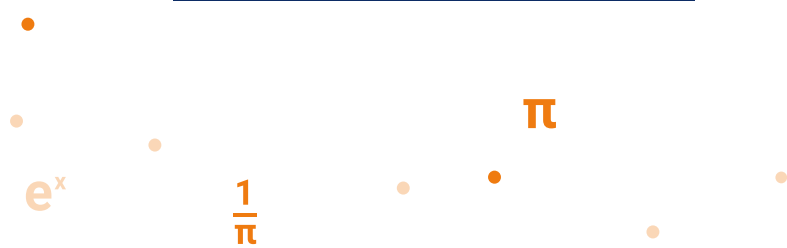
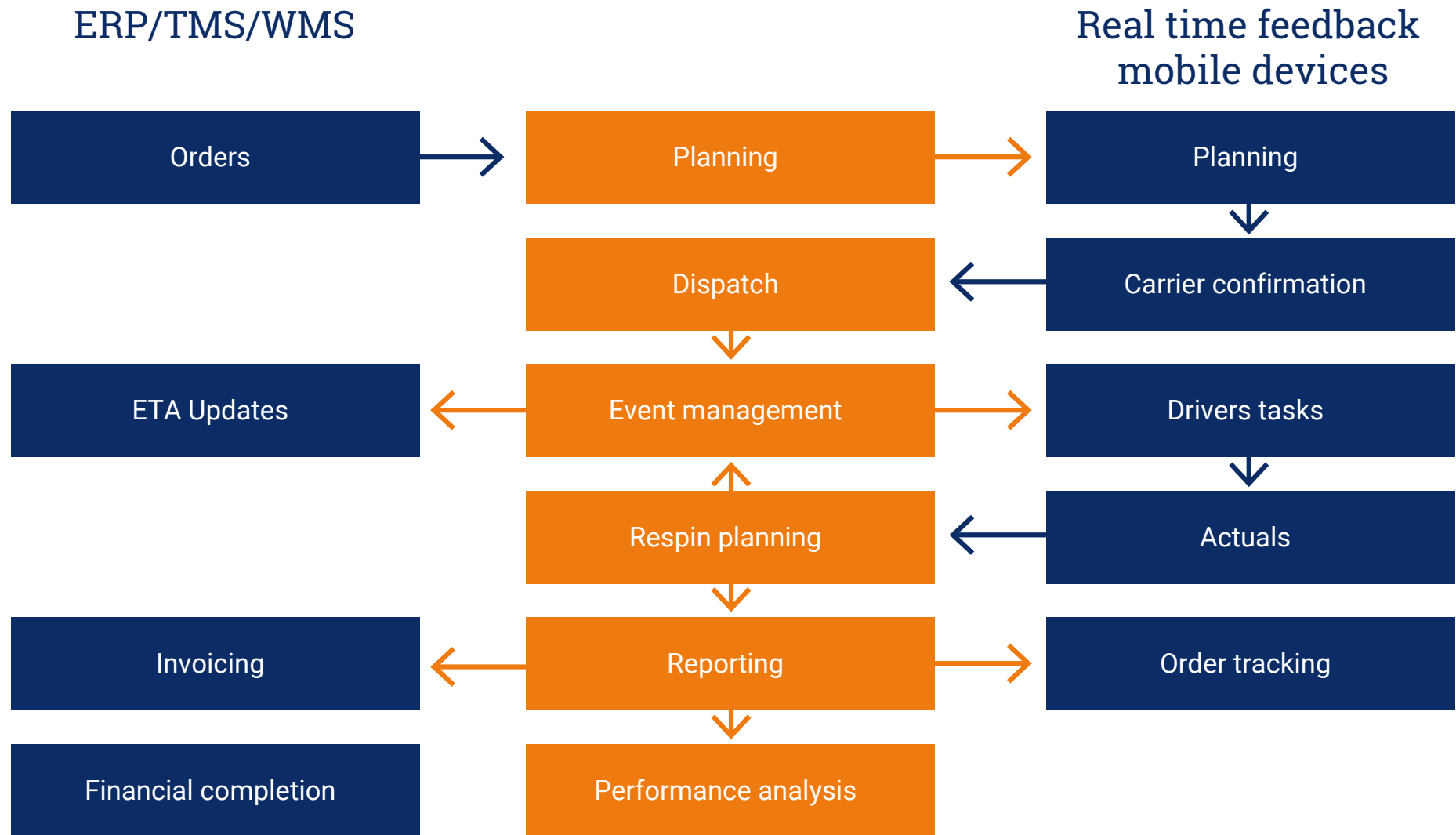
# A proven, fit-for-growth solution that makes rapid ROI a priority

## Unique features

- Handle different logistics requirements on a single platform: FTL, LTL, collection, distribution, and temperature-based.
- Embedded optimization techniques with multiple options for decision support for pick-up and delivery. Optimization support for collection and distribution rounds, as well as compartment assignment.
- Flexible driver and resource planning (truck, trailer).
- Combine batch planning optimization with real-time dispatch and execution in a single plan.
- Make use of recurring and predefined collection or distribution routes.
- Scheduler functionality to take business variables into account, keep track of resource status and ETA, locations, and orders. This ensures that total multi-day planning is responsive while remaining consistent.
- Data analytics platform to gather, organize and learn from past decisions, to either report on performance or provide feedback as a learning loop.
- Integration options with back-office systems like ERP, TMS, and WMS. Information sharing with drivers and carriers using mobile apps and collaboration portals.
- Centralized and scalable architecture that supports both mid-sized distribution companies and the large, multi-site operations of 4PL companies, shippers and their carriers.
- Real-time event management with alerts for restriction violations, issue/event messages, and KPI monitoring.
- A SaaS-based, true multi-user, multi-environment, real-time planning and dispatch system that runs 24/7.



# ORTEC Routing and Dispatch





### Your data is in good hands

ORTEC Routing and Dispatched is offered as SaaS, with several specialized web applications. We know it's highly important to secure the data being stored and shared between solutions. That's why we apply high standards to comply with security and quality assurance requirements. Our security management framework is based on the ISO 27001 standard.



“

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

”

ORTEC Routing and Dispatch supports role-based access control. You can control who views and changes any data or planning information across business units. All changes to user roles and permissions are logged.

“

*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*

”

(k!)<sup>4</sup>

e<sup>x</sup>

$\frac{1}{\pi}$

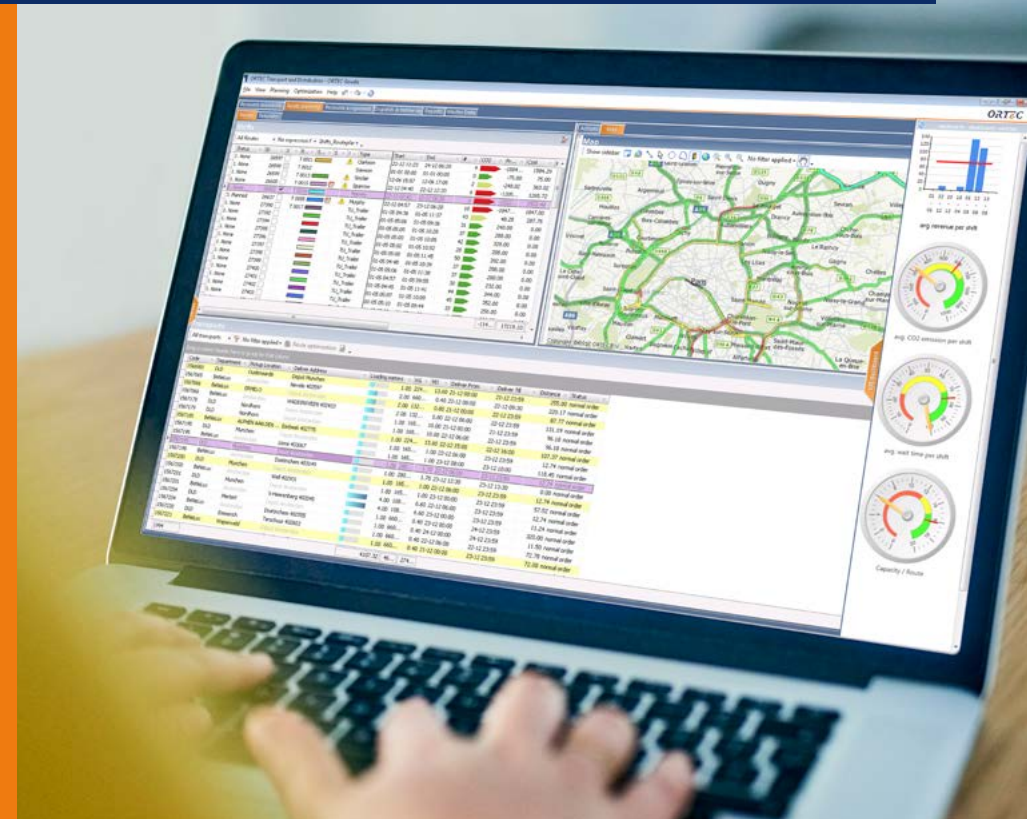
## Why choose ORTEC Routing and Dispatch

- Horizontal collaboration increases, as business units distribute orders among 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.
- Reduced and more structured communication flows with drivers and fixed carriers.
- Greater capability to meet changes and short-term requests (e.g., rush orders).
- Results overview in graphical and tabular form.
- Improved customer service with the automatic inclusion of restrictions, such as store 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 your ERP, TMS or WMS and in-vehicle devices.
- Regular updates ensure you are always running the latest, innovative business features and optimizers.

## How you benefit

- Happier planners, drivers and managers. Satisfied customers with improved service levels.
- Perfect operational control
- Lower cost to serve

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





## ORTEC Routing and Dispatch

## Solution area's

Features	Store Delivery	Finished Goods Logistics	Transportation and storage
ORTEC SaaS	✓	✓	✓
Incremental schedule builder	✓	✓	✓
Route scheduling optimizer (collection & distribution)	✓	✓	-
Resource assignment optimizer	c	c	-
Departure smoothing	c	c	-
Load assignment for retail	✓	-	-
Distributed scheduling (large schedules)	✓	✓	✓
Real-time dispatch and execution	✓	✓	✓
Real-time event management	✓	✓	✓
Consistent scheduling engine	✓	✓	✓
Multi-user environment	✓	✓	✓
Road Pricing	✓	✓	✓
Real-time Status Monitoring	✓	✓	✓
Real-time GPS Monitoring	✓	✓	✓
Options for decision support	✓	✓	✓
Connectivity			
Standard (real-time) integration model for ERP/TMS/WMS	✓	✓	✓
Standard (real-time) integration model for Mobile	✓	✓	✓
Message Hub Integration (middleware)	✓	✓	✓
Logistical requirements			
FTL planning	✓	✓	✓
LTL planning	-	-	✓
Distribution	✓	✓	✓
Temperature regemes	✓	✓	-
Pickup and delivery planning	-	-	✓

## ORTEC Routing and Dispatch

## Solution area's

Collaboration	Store Delivery	Finished Goods Logistics	Transportation and storage
Delivery Driver Incentive App	✓	✓	-
Carrier Portal	✓	✓	-
Route confirmation and resource assignment	✓	✓	-
Route tendering fixed carriers (1)	✓	✓	-
Document management (1)	✓	✓	-
Store / receiver portal	c	c	-
Gate keeper Portal (1)	✓	✓	-
Track & trace solutions	✓	✓	✓
Data analytics (DnA)			
Operational Rerpoting	✓	✓	-
Operation KPI Dashboard	✓	✓	-
Performance analysis app	✓	✓	-
Driver incentive program	c	c	-
Cost-2-serve app	c	c	-
CO2-2-serve app	c	c	-
Self learning stop times (1)	✓	✓	-
Self learning travel times (1)	✓	✓	-
Map features			
Cloud based maps (2)	✓	✓	✓
Traffic Congestion Patterns	✓	✓	✓
Hazardous Goods Routing	✓	✓	✓
Road Constraints Routing (3)	✓	✓	✓
Traffic Delay Areas	✓	✓	✓

✓ available

c conditionally available

- not available

(1) Modules to be released 2022-2023

(2) ORTEC SaaS only

(3) Not combined with Cloud maps

## ORTEC Routing and Dispatch

## Solution area's

Additional features	Store Delivery	Finished Goods Logistics	Transportation and storage
Cost based planning KPI's	✓	✓	✓
Vehicle routing restrictions	✓	✓	✓
Driver Fatigue Management	✓	✓	✓
Master routes	✓	✓	-
Resource capacity planning	✓	✓	✓
Resource assignment	✓	✓	✓
Compartment assignment	✓	✓	✓
Axle weight distribution regulation	✓	✓	✓
Service regulations	✓	✓	✓
Cross-docking support	✓	✓	✓
Warehouse order consolidation	✓	-	-
Master Routes integration (OSM)	✓	✓	-
Fleet maintenance agenda's	✓	✓	✓
Operational planning and dispatching dashboard	✓	✓	✓
Transport controls tower dashboard	✓	✓	✓



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