# ORTEC Load Optimization

A simple cloud solution to a complex challenge

OPTIMIZED BY ORTEC
ORTEC.COM

## What are your benefits?

- Reduces logistics costs between 3 and 7%
- Increases planning productivity by up to 70%
- Lowers total cost of ownership (TCO) by up to 30% using SaaS
- Higher customer satisfaction by better fill rates and less damages
- Improve sustainability by reducing CO2 footprint "shipping less air"
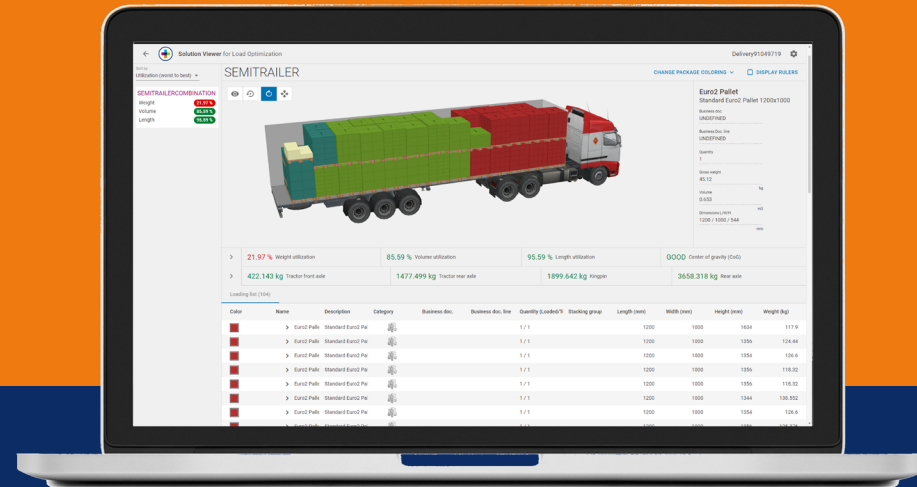- Experience the quality of a global, best-in-class solution expert

## What is it?

ORTEC Load Optimization supports companies to automate their packing and load planning using advanced mathematical optimization for Cartonization, Palletization and Loading. It can consider many complex packing and loading rules to create realistic packing and loading proposals. This includes stacking requirements, mixed loading prohibitions, allowed placements and orientations of package items, maximum permissible axle weights for means of transport, door width and height of containers etc. ORTEC Load Optimization manages relevant master data for products, packages, load carriers and means of transport such as dimensions, capacities, rules etc. and uses it automatically when performing an optimization. Solutions can be validated easily and shared with the interactive 3-dimensional load graphics in standard internet browsers. As a cloud-native Software-as-a-Service, powered by Microsoft® Azure, it is fast, reliable, secure and can be integrated into any third-party business software. (e.g., CRM, ERP, TMS, WMS) with industry standard web interface technology (REST).

# Create additional value in multiple steps of your supply chain

**Replenishment planning**

Enable a demand-driven and cost-effective replenishment planning for warehouses, distribution centers, customers (VMI) and suppliers. Helping replenishment planners to build optimal, feasible and executable full truck loads using material/product demand quantities and priorities, combined with smart logic to shape maximum utilized transports.

**Order management**

Create visibility into transport utilization in relation to order size already at order entry. Assist sales or procurement selecting the most cost-efficient shipping options (Parcel, LTL). Help designing efficient, executable shipping and transportation units, e. g. by simulating the loads while adding or reducing quantities prior to order confirmation.

**Transportation planning**

Help transportation planners, warehouses, and carriers to consolidate orders to shipments for multiple modes of transport (Road, Sea, Rail, Air), and different shipping methods (Parcel, LTL, FTL), tightly integrated with your transportation management solutions.
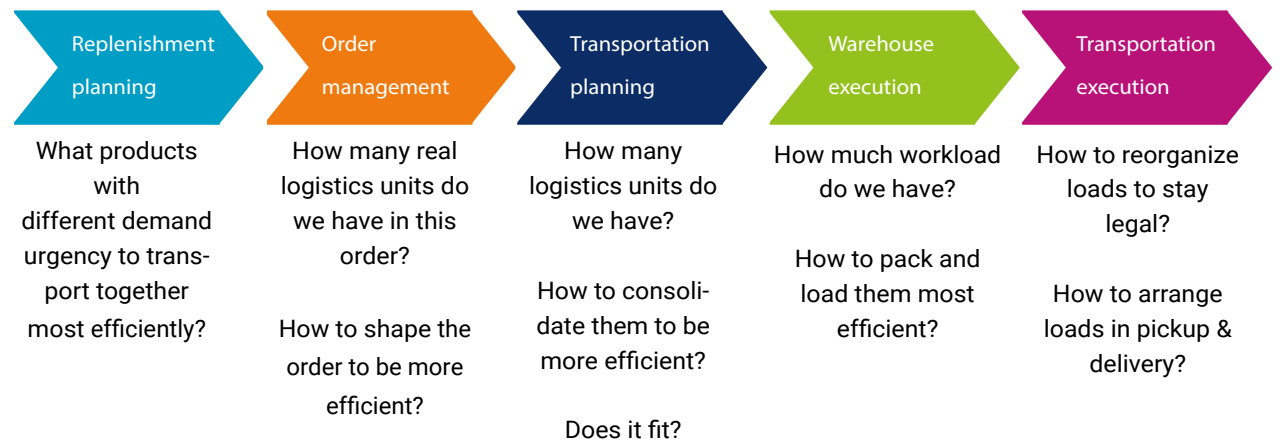
**Warehouse execution**

Improve your warehouse efficiency by providing optimal, feasible and executable plans for order picking and loading, before and during execution. Help warehouse managers, order pickers and loaders to prepare and ship efficiently.

**Transportation execution**

Support warehouse loaders, drivers, and goods recipients to plan and execute their loading, make on-route load adjustments and efficient pickup & delivery activities, e. g. for empties and returns during transportation execution.

## Where can we create value?

ORTEC Load Optimization can be applied by **manufacturers**, **retailers**, and **logistics service providers** to increase value in multiple business usage scenarios.

| Replenishment planning | Order management | Transportation planning | Warehouse execution | Transportation execution |
|---|---|---|---|---|
| What products with different demand urgency to transport together most efficiently? | How many real logistics units do we have in this order? How to shape the order to be more efficient? | How many logistics units do we have? How to consolidate them to be more efficient? Does it fit? | How much workload do we have? How to pack and load them most efficient? | How to reorganize loads to stay legal? How to arrange loads in pickup & delivery? |

$e^x$   $\pi$   $\dfrac{1}{\pi}$

# Why you should select ORTEC?

- ORTEC has more than 40 years of experience in packing and loading optimization across multiple industries provides you with "best-in-class" software
- Our fit-for-purpose, end to end, user-centric UX design, and integration technology reduces implementation time and costs compared to standard on-premises software
- Our Software-as-a-Service (SaaS) offering means that we run the software for you, all year around, 24/7. You do not have to invest in hardware or additional licenses. Subscription plans can be set up to meet your individual needs

For more information visit our product website ORTEC | Effective packing and loading optimization and contact us in one of our worldwide offices!

stay connected

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$\dfrac{1}{\pi}$