

ORACLE TRANSPORTATION OPERATIONAL PLANNING

KEY FEATURES AND BENEFITS

FEATURES

- Collaborate with trading partners
- Plan and execute domestic and international transportation movements
- Source transportation services with bid collaboration and optimization
- Centralize supply chain performance measurement and monitoring information
- Establish and manage appointments into and out of network facilities
- Manage international shipping operations as a forwarder or broker

BENEFITS

- Reduce transportation costs
- Increase asset utilization
- Increase supply chain reliability
- Improvement in carrier relations
- Increase in customer service levels
- Flexible global fulfillment options
- Lower Total Cost of Ownership
- Improve process efficiency
- Drive continuous improvement

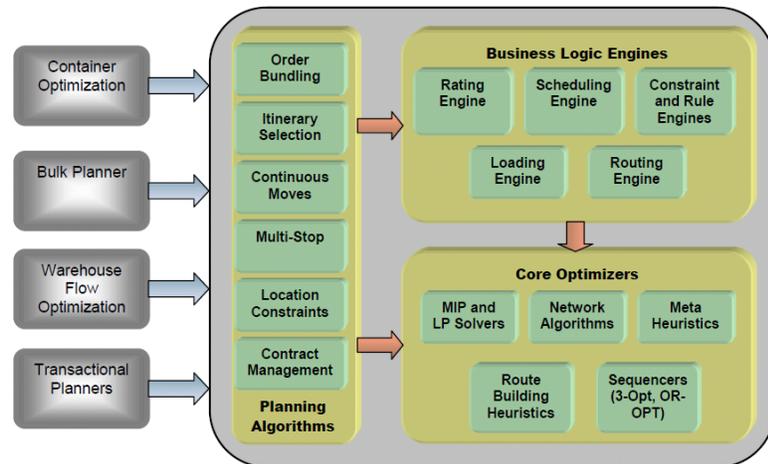
Oracle Transportation Operational Planning supports all transportation moves, including inbound and outbound, from simple point-to-point to complex multi-modal, multi-leg and cross-docking operations. Oracle Transportation Operational Planning applies your specific business rules and logic in conjunction with powerful algorithms and optimization engines to optimize shipments based on cost, service level and asset utilization. Oracle Transportation Operational Planning includes built-in engines for rating, service time and location and carrier capacity reservations. Oracle Transportation Operational Planning can be used for in-bound, outbound and inter-facility shipments. Oracle Transportation Operational Planning also consolidates containers, multi-stops and carriers.

Integrated Planning and Execution

Oracle Transportation Management's integrated approach to Planning and Execution allows you to streamline the entire logistics planning and execution processes - from item availability to final delivery and financial settlement. You can efficiently plan both inbound and outbound deliveries and departures with carriers or internal fleet. You can also consolidate, process, and rate deliveries in accordance with carrier and industry requirements. Additionally, you have the ability to automatically assign carriers to deliveries based on customer routing instructions. The integrated approach means that you can tap into Oracle Transportation Operational Planning's capabilities at any stage of the order/shipment lifecycle. For example, if a delivery is late, you can determine the downstream impact to other deliveries and alert as required. This integrated approach also allows you to invoke the powerful optimization capabilities in the context of Oracle Transportation Management's workflow engine and create sophisticated workflow rules to sense and respond to exceptions.

Optimization Architecture

Oracle Transportation Operational Planning uses state-of-the-art optimization techniques to determine the best way to service your transportation needs. You can simultaneously optimize mode selection, carrier, equipment and rate selection, itinerary selection, order consolidation, multi-stop shipment planning – all while adhering to your business constraints such as pickup/delivery times, location calendars, compatibilities, etc. Oracle Transportation Operational Planning is built to handle complex, multi-tier networks across geographies and modes enabling you to plan and execute your global business network in a single instance, single platform solution.



A range of powerful core optimizers and business logic engines invoked in its planning algorithms ensure the high quality of the solution produced. The optimization engines are specially crafted for performance and scalability incorporating techniques such as enhanced memory management and multi-threading. You can tune the performance and quality of the solution to your needs by setting various parameters and choosing from a variety of planning algorithms within the web based user interface not a separate planning file. Oracle Transportation Operational Planning offers both batch and transactional planning engines that call into the same underlying logic to produce consistent, high-quality solutions. Further, via a simple and intuitive graphical user interface, planners can leverage the advanced algorithms to ensure that transportation plans are optimized to their needs while respecting real-world constraints. Oracle Transportation Operational Planning's open optimization architecture enables you to call into the planning engines from various points of the order/shipment lifecycle enhancing your capability to respond to changes and exceptions.

Reduce Transportation Costs

Oracle Transportation Operational Planning empowers shippers and logistics service providers to streamline transportation processes and meet customer commitments. Oracle Transportation Operational Planning lowers transportation costs, improves customer service and provides flexible, global fulfillment options. As an integrated component option within Oracle Transportation Management that allows you to automatically select carriers, rate deliveries, generate shipment information and track deliveries from departure to receipt, Oracle Transportation Operational Planning produces further savings by determining the lowest-cost carrier for every shipment for every mode all over the world.

Contract and Rate Management

Within Oracle Transportation Management is the industry's most flexible rating engine to handle multiple-mode, currency and tariff complexities. Oracle Transportation Management's attribute-driven architecture models service provider, mode and geographic nuances. This unique architecture enables hybrid costing capabilities to

evaluate freight based on weight, pallet or mileage bands over all modes and geographies.

Optimize Carrier and Equipment Selection

Oracle Transportation Operational Planning incorporates a flexible, rules-based engine to facilitate cost-effective carrier selection, while respecting customer specific routing requirements and requested delivery times. Automated carrier selection enables you to reduce costs and improve customer service by ensuring compliance with customer-provided routing guides as well as your own internal carrier policies.

In order to effectively model a variety of routing requirements, routing guide rule criteria can support geographic ship from/ship to information, including user-defined zones, delivery weight and volume, and delivery transit times. Routing guide rules can be used to model your own organizations inbound or outbound routing requirements or those requirements provided by your customers.

Constraint Based Planning

Oracle Transportation Operational Planning supports constraint-based rules such as compatibility constraints, location capacity constraints and carrier capacity constraints. Compatibility constraints allow you to model shipping constraints related to facilities, customers and items. Carrier capacity constraints enable you to better manage carrier contracts and avoid penalties. Location capacity constraints enable you to effectively model your location throughput.

Build Optimal Consolidated Loads

Oracle Transportation Operational Planning helps you to reduce transportation cost by combining small shipments into full truckloads. To consolidate shipments, Oracle Transportation Operational Planning uses strategies such as multi-stop trips and pooling via consolidation, deconsolidation, and cross-docking points. Pooling and cross docking enable shippers to enjoy low line-haul rates by combining small shipments with different origins and destinations at consolidation and deconsolidation centers. This enables you to use high-priced less-than-truckload (LTL) or parcel carriers for only the “last mile” instead of for the shipment’s entire route.

Fleet and Contract Carriage Planning

Oracle Transportation Operational Planning enables you to plan your shipments accounting for common carrier rates, costs and constraints while weighing those against the costs and capabilities of your fleet. It will help you determine where and how to deploy your fleet resources to improve customer satisfaction and service levels while maintaining low operating costs.

Continuous Moves

A continuous move consists of a sequence of loads connected into a logical mission that a single truck can perform. Continuous moves increase asset utilization and decrease driver and equipment imbalance problems for carriers. Many carriers offer discounts to their customers for continuous moves. Oracle Transportation Operational Planning evaluates opportunities for shippers to take advantage of these discounted rates.

Load Configuration

In today's environment of equipment scarcity, high fuel costs, it is increasingly important to plan high-utilization loads that are attractive to carriers and help drive inefficiencies out of the network. Oracle Transportation Operational Planning utilizes advanced trailer and container loading algorithms as part of its shipment-building engines to ensure that equipment selection is based on accurate utilization measurements and not on simple weight and cube summation estimates. These take into account item shape, size, stack-ability and other constraints to build efficient and high-utilization shipments. Accounting for trailer loading at the time of shipment planning not only boosts equipment utilization, it also ensures that the shipments built can be successfully executed at the warehouse.

Global Planning

According to the Aberdeen Group – “Globalization is the pervasive supply chain challenge of this decade. Cross-border supply chains are strapped together with inefficient, manual processes and are buffeted by supply chain unpredictability and continually evolving regulations and information requirements. Global trade leaders, however, are succeeding in automating and controlling this complex environment, driving out cost, time, and risk from their business. 38% of [survey] respondents have more than a quarter of their customers located internationally. This is anticipated to grow to 51% of respondents by 2008.”

Oracle Transportation Management offers the only complete logistics solution designed for global international operations. Oracle Transportation Management supports all modes, currencies, and language and localization requirements while managing complex multi-leg shipments with dozens of involved parties. Oracle Transportation Operational Planning determines that optimal routing based on your business rules to minimize cost while providing the required service levels. An important and unique ability of Oracle Transportation Operational Planning is that it allows you to plan your international itinerary by first optimizing the cost and schedule of the most expensive and resource-constrained leg (such as Ocean, Air or Rail) and to use that to drive the rest of the itinerary. Throughout the lifecycle of the shipments, Oracle Transportation Management keeps all parties informed of any critical information, while reacting to deviations from the plan. In-route shipments can be diverted or otherwise changed to respond to changing customer or carrier requirements.

Warehouse Flow Management

Efficient supply chain execution often requires close coordination between warehouse and transportation management functions. Oracle Transportation Operational Planning's warehouse flow management solution allows you to balance the efficiencies of the warehouse picking activities with your transportation constraints, allowing you to effectively consider cost trade-offs between the warehouse operations and the transportation activities.

Appointment Scheduling

Oracle Transportation Operational Planning offers a unique solution to the marketplace for managing the appointment scheduling process across a network and on a global

basis. This allows you, globally or regionally, to view, manage and schedule pick-up and delivery appointments for shipments and orders. The appointment management capability is available for both actively and passively managed orders and shipments in the logistics network. Location and dock-door level availability and constraints can be modeled and considered when planning and executing shipments. The Web based collaborative appointment scheduling component for carriers and internal users gives you the flexibility to dictate available options for shipping and receiving merchandise in available timeslots supporting the appointment management process.

Simulation and Incremental Planning

Oracle Transportation Operational Planning offers robust online simulation capabilities to evaluate the use of alternate modes, carriers, and consolidation schemes. This facilitates assessment of potential plan improvements, in terms of both cost and compliance with business rules, before finalizing trips and shipments. For example, users can update order data in real-time, capturing any last-minute entries, cancellations, or quantity changes, and analyze whether to accommodate these changes by manually modifying a few planned loads or by re-optimizing the entire plan.

Drive Continuous Improvement

Oracle Transportation Operational Planning calculates a wide variety of key performance indicators that highlight the true effectiveness and efficiency of the planning process and its results. In combination with extensive reports and workflow-enabled exception alerts, these enable users to identify areas for focus and to track the benefits of continuous improvement programs.

Improve Customer Service Levels

Oracle Transportation Operational Planning promotes on-time delivery and respect for other customer requirements by enabling planners to use a wide variety of business constraints in the optimization process. By making the entire planning process faster and more efficient, Oracle Transportation Operational Planning enables planners to focus on important issues such as customer service that older, more labor-intensive planning methods do not allow for.

Oracle E-Business Suite—The Complete Solution

The Oracle E-Business Suite enables companies to efficiently manage customer processes, manufacture products, ship orders, collect payments, and more from applications that are built on unified information architecture. This information architecture provides a single definition of your customers, suppliers, employees, products and other aspects of your business. Whether you implement one module or the entire suite, Oracle E-Business Suite enables you to share unified information across the enterprise so you can make smarter decisions with better information.

Key Features in Oracle Transportation Operational Planning

- Multi-stop truckloads
- Pooling - Consolidation and de-consolidation pooling
- Hub-and-spoke cross-docking

- Compound pooling, cross-docking and multi-stop scenarios
- Multi-leg, multi-mode itinerary planning
- Optimal mode, carrier, service, and equipment type selection
- Compatibility constraints - Capture compatibilities between facility, carrier, equipment, items, etc.
- Multiple equipment types with multiple compartments
- Temperature-controlled equipment
- Weight, volume, and user-defined reference unit capacity constraints - Define your own unit of measure (such as pallet-spaces) on which to check equipment capacity
Trailer and container load configuration
- Hours of service rules
- Scheduling to respect facility shipping and receiving hours, loading and unloading rates, and appointments
- Preferred carrier arrangements
- Carrier vehicle availability
- Appointment Scheduling
- Location Capacity constraints
- Continuous moves
- Multiple optimization algorithms - Customizable planning engines
- Order Movement planning - Plan individual legs of a multi-leg itinerary; ability to plan/re-plan portions of an order based on routing
- Support for all modes – truckload, LTL, parcel, ocean, air, rail, etc.
- LTL-split planning - Optimize and eliminate LTL by creating TL stop-offs and vice-versa
- Split-order planning, greater-than-truckload order planning - Split orders across shipments, if required, to create better-utilized shipments
- Support for external distance and service time engines
- Equipment on orders - Ability to specify equipment information directly on orders which will then be adhered to in plan
- Ignore Planning Constraints - Ability to selectively ignore/override constraints in transactional planners
- Static Routes/Network Execution - Book and execute freight against pre-defined routes with specified schedules
- Container Planning - Specify stuff/de-stuff points, maintain container integrity
- Buy v/s Sell side planning - Plan both the Buy and Sell versions of the shipment, propagate data from Buy to Sell

RELATED PRODUCTS

Oracle Transportation Operational Planning is an option under the Oracle Value Chain Execution suite and within the Oracle Transportation Management application. The Oracle Transportation Management system was designed to provide a comprehensive global system to manage all aspects of transportation and related logistics activities.

Some key, related options within the Oracle Transportation Management system are

- Oracle Transportation Sourcing
- Oracle Logistics Inventory Visibility
- Oracle Freight Payment, Billing, and Claims
- Oracle Transportation Cooperative Routing
- Oracle Forwarding and Brokerage Operations
- Oracle Fusion Transportation Intelligence

- Voyage Management, Consol Management, Contract and Rate Management
- Flexible rating engine
- Ability to handle multiple-mode, currency, and tariff complexities.
- Attribute-driven architecture with the ability to model service provider, mode, and geographic nuances
- Hybrid costing capabilities to evaluate freight based on weight, pallet, or mileage bands over all modes and geographies Productivity Enhancing User Interface
- Interactive map – View and edit plan elements from graphical view
- Comprehensive linked views - Navigate plan elements quickly
- User-defined queries
- Ignore planning constraints - Ability to selectively ignore/override constraints in transactional planners
- Show routing options - View all possible routing options, including multiple leg options; select and save options for later evaluation.

Dynamic Planning

- Real-time order and order movement updates – Facilitates change management – propagates order changes to shipments and across legs in a multi-leg scenario
- “Lights-out” planning - Configure suitably qualified orders to be planned, tendered and executed as they are received
- Workflow-enabled planning/re-planning - Embed calls to planning engines in event-based workflow to respond to changes and exception

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