Wabtec's Digital Solutions

Port Optimizer™

Optimizing the Supply Chain

Port Optimizer is a cloud-based software solution that enhances supply chain performance and predictability by delivering real time data-driven insights through a single portal to partners across the supply chain. Integrating data from across the port ecosystem, combining machine learning and deep domain expertise, it helps the supply chain monitor and respond to dynamic conditions, align people and resources, and proactively communicate across functions – enabling maximum port throughput and delivery performance.

"Port Optimizer gives our supply chain community a holistic view of what's happening – well in advance. It is enabling a new level of efficiency and optimization."

Gene Seroka, Executive Director
Port of Los Angeles

CORE CAPABILITIES

- **Unified Information Portal:** Synthesizes disparate supply chain data into a single source of truth.
- **Flexibility:** API-driven architecture enables easy integration into existing IT systems.
- **User-Based Visualization:** Flexible, modern user interface tailored by user type. Users only see their data.
- **Cyber Security:** Advanced data protection through access controls and cryptography.

DIFFERENTIATING FEATURES

- **Consolidated information** across entire port complex allows multi-terminal/carrier views with best-in-class ETAs and planning.
- **Intelligent Container Track & Trace:** Follow containers through the supply chain including business critical terminal information.
- **Direct Connectivity:** Direct connections with source providers allow for fastest and most accurate data in the industry.
- **API Connectivity:** Full API store allows users to enjoy full power of Port Optimizer within their existing IT infrastructure.

Participation from all major global shipping lines and all marine terminals within the Port of Los Angeles

How Port Optimizer helps Operations

Vessel Tracking	Visibility to containers for equipment management and resource planning.
Vessel Operational Status	Progress of ship discharge and loading activity.
Container Tracking	Current container status by port, city, state, and final destination.
Container Allocation	Ability to see which motor carriers are picking up containers.
Empty Container Management	Aggregation of data from shipping line and terminals to provide near real-time updates.
Operational Status	Actionable insights into terminal operations, container dwell, availability status.
Analytics & KPIs	Single source of truth for KPIs and port-wide analytics.

Data Sources Include

Shipping Lines
- Inbound Manifest
- Container Size/Type
- Destination Terminal
- Advanced ETA/ATA
- Vessel Stowage
- Customs Holds

Marine Terminals
- Availability
- Last Free Day
- Yard Location
- Discharge Status
- Terminal/Line Holds
- Custom User Information

Plus additional third-party information

Container Views
Vessel Views
Terminal Views

STAKEHOLDERS
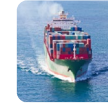
Beneficial Cargo Owners

Ports

Marine Terminals

Shipping Lines

Motor Carriers

Railroads

Chassis Providers
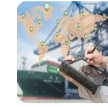
Freight Forwarders & NVOCCs

OPERATIONAL BENEFITS

Increased Visibility
Eliminate cargo speculation with ~14 days of advance visibility.

Predictability
Dynamic ETAs, machine learning and other analytics drive predictive performance.

Throughput
Facilitates immediate throughput improvements to cargo flow.

Productivity
8-12% projected total productivity increase as the solution scales across the entire port.

For more information on Port Optimizer:
track.portoptimizer.com