

TERMINAL OPERATING SYSTEM (TOS): OPTIMIZING PORT AND TERMINAL OPERATIONS

The Terminal Operating System (TOS) is a sophisticated software platform designed to enhance the management of port and terminal operations. It provides a comprehensive suite of tools for scheduling, planning, and executing tasks related to warehousing, vessels, rail, and trucks. By integrating real-time operational data, TOS empowers stakeholders to make informed decisions, improve cargo handling, and optimize berth and yard management.



KEY FEATURES

VESSEL AND CARGO MANAGEMENT

- **Vessel Scheduling:** Manage vessel arrivals, approve/reject operations, monitor events, and finalize manifests, with real-time tracking to improve turnaround times.
- **Cargo Tracking:** Unified interface for tracking inbound/outbound cargo, overseeing storage, release info, and ongoing operations.

RAIL AND TRUCK MANAGEMENT

- **Rail Scheduling:** Track arriving wagons, manage handovers, and monitor wagon location.
- **Truck scheduling and operations:** Manage truck arrivals, track locations, and integrate with systems for truck weighing.

BERTH AND YARD PLANNING

- **Berth management:** Automate berth reservations, check vessel compatibility, and visualize berth occupancy with drag-and-drop functionality.
- **Work orders and yard operations:** Manage work orders and optimize cargo movement with a graphical warehouse view.

WAREHOUSE OPERATIONS

- **Electronic Docs:** Create and manage electronic warehouse documents to reduce paperwork and improve communication.
- **Warehouse Visualization:** Monitor space availability through a graphical interface for better resource allocation.
- **Weighbridge Integration:** Automate tracking of truck and wagon weights, with options for manual input.

BENEFITS

- **Real-time data integration:** Provides seamless operations by offering real-time data across vessel, rail, and truck activities, enhancing overall terminal efficiency.
- **Enhanced planning tools:** Interactive visual tools for berth and yard planning help optimize space, reduce congestion, and ensure maximum terminal capacity utilization.
- **Automated and manual workflows:** Combines automated processes with manual overrides for flexibility in managing complex or changing terminal requirements.
- **Comprehensive reporting and analytics:** Access to detailed operational data and real-time statistics facilitates better decision-making and performance monitoring.