



Smart. Efficient.
Fully Controlled.
Your Port,
Reimagined.

VTOS is the core system for port operation management, covering full-process operations to enable smart port management, improve operational efficiency, service quality, and decision-making capabilities



FUNCTIONS

Planning & Dispatching

AI-powered berth allocation and intelligent resource planning for efficient management of all operation processes.

Operation Monitoring

Real-time tracking of operation status with automatic alerts to enhance safety and efficiency.

Automated Dispatching

Unified management of quay cranes, yard, and transport equipment for full-process automation.

Smart Slotting

AI-driven container position allocation to maximize yard space utilization and operational efficiency.

Smart Gate

Appointment control and automated gate operations to increase throughput and minimize waiting time.

Online Service

Supporting online business processing and real-time information access to enhance service quality and user experience.

Business Billing

Flexible configuration and automated billing supporting both local and group-level settlements for efficient financial management.

Smart Decision-Making

Real-time analytics and intelligent insights with automatic generation of operational and financial reports to support data-driven decisions.

History Traceability

Comprehensive recording of operation logs and exceptions for full-process traceability and accountability.

Applicable Scenarios



Container
Terminals



Bulk Cargo
Terminals



General Cargo
Terminals



Liquid
Terminals



Ro-Ro
Terminals



Intermodal
Terminals

FEATURES

Intelligent

AI, big data, OCR, and RPA improve smart dispatching and operational efficiency

Integrated

Unified management through local or group cloud, efficient data sharing

Automated

Full-process equipment automation for high efficiency operations

Digitalized

Data platform + data warehouse enable real-time visualization and intelligent decision-making

High Availability & Easy Maintenance

Modular, distributed architecture with intelligent alerts to guarantee system stability

VALUES



Efficiency Improvement

Precise and efficient operations significantly increase throughput



Cost Optimization

Automation and intelligence reduce labor and operational costs



Service Enhancement

Rapid response to customer needs, improving satisfaction



Scientific Decision-Making

Real-time data analysis and intelligent dispatching support high-quality management decisions



End-to-End Control

Full visibility of planning, operations, billing, service, and statistics for comprehensive management



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