Vessel Traffic Foresight

KONGSBERG's solution for Port Management

Fully integrated complete solution

Our Port Management Information System (PMIS) is designed to meet the complex needs of port authorities, offering a comprehensive suite of planning, information, and optimization tools. This highly configurable system adapts to the specific requirements of any port, regardless of its size.

Deployed at ports worldwide, our in-house developed PMIS ensures the safe and efficient movement of vessel traffic within port limits. Leveraging over 30 years of experience in optimizing marine resources, we offer customized solutions that enhance the efficiency and safety of marine operations. The system supports Maritime Digital Services, including Just-In-Time arrivals, adheres to Safety Management System processes, and captures validated data such as the Master-Pilot Exchange. Trusted by some of the world's safest and most successful ports, our PMIS is a proven and reliable solution.

The modular design allows ports to start small and add functional modules as needed. An integrated dashboard offers all stakeholders shared situational awareness, automatically monitoring and reporting Key Performance Indicators such as berth, tug, and pilot utilization. Agents can access the system externally to book visits and track their ships' progress.
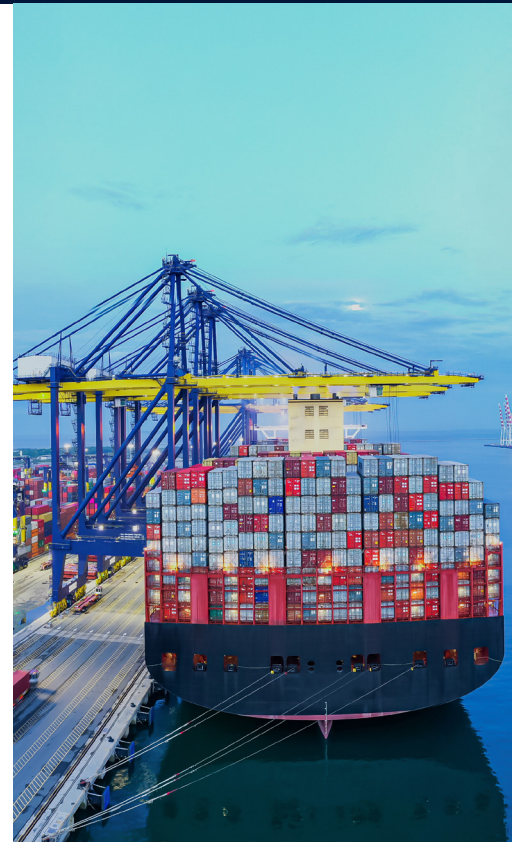
The user-friendly Human Machine Interface (HMI) enables efficient ship visit entries and resource allocation. Our PMIS seamlessly integrates with the Foresight real-time Traffic Display, ensuring comprehensive situational awareness of the port area, and is accessible on mobile devices.

Additionally, our PMIS integrates with third-party ship databases including IHS Sea-web™, Shipping Publications AS, and SafeSeaNet, and interfaces with finance systems to generate invoicing based on port tariffs

KONGSBERG

KONGSBERG has more than 40 years' experience of providing over 300 maritime surveillance solutions to governments and organisations around the world, ranging from port operations to critical infrastructure to coastal and sea surveillance.

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KONGSBERG's PMIS enables port authorities to:

- Our PMIS enables port authorities to:
- Manage traffic, improve safety and security, reduce costs, and increase efficiency
- Optimize berth and anchorage utilization
- Automate data capturing, such as arrival/departure times and service provision timings
- Optimize resources and associated services
- Efficiently issue configurable invoices
- Manage incidents

Role-Based User Access

Thorough management models can set up any number of user roles and tailor the functionality available to that role. This ensures all users can access the information that is needed for their role without being distracted by irrelevant information. Roles and users can be added and deleted as requirements change. And since external users such as agents can be granted access if required, special roles can be set up for such stakeholders, allowing them read, write, or read/write privileges as required.

Benefits from Software-as-a-Service (SaaS):

- On or off-premise centralized hosting: Better data security and reduced IT support requirements.
- Hardwired independence: Accessible using standard web browsers from anywhere, at any time, and from any device, including a mobile device with internet access.
- Reduced capital purchases and support costs:
- Reallocates resources when changes occur.
- Localization management: Including anchors, recordings, line and area berths, terminals, and more.
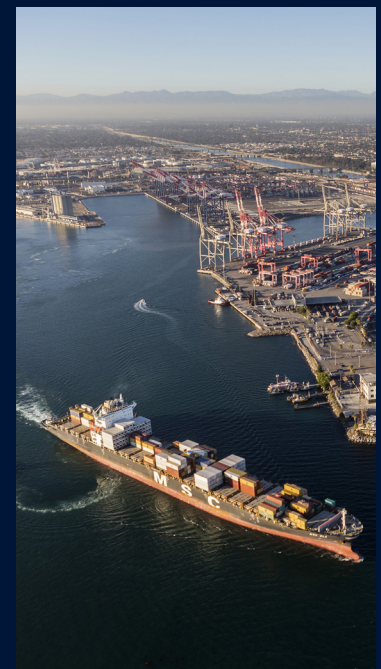
Vessel Visit/Voyage Management

- Book, plan, monitor, complete, approve and invoice all in one place
- Movements controlled according to Safety Management System processes so port rules and/or Standard Operating Procedures (SOP) are followed (pilot and tug requirements vs. assignments, depth of water at a berth, and others)
- Manage any resource providing a service during the visit
- Reallocate a resource when changes occur
- Location management including anchorages, reporting line/area, berths, terminals, bollards, and more

Key functional modules:

- User Management: Role-based user management and access
- Vessel database management: No need to manually enter information on each vessel
- Documents: Upload cargo manifests, crew lists, insurance papers, and other documents required for a visit
- Web booking: Portal for external (Agents, owners, etc.) and internal users to make bookings
- Invoicing data capture: For complex port tariff structures including port dues, movement charges, service charges, and other fees
- Web Service Interface: Facilitates information exchange with 3rd party systems
- Report builder: Empowers users to make their own customized reports, as well as standard reports
- Service management: Ensures all services including but not limited to anchorage, berthing, pilotage, tugs, waste, shore-power, etc. and the service providers are kept up to date
- Master-Pilot Exchange (MPX): Issue Pilot taskings and record the MPX

Port of LA/LB in the US uses surveillance system from Kongsberg Norcontrol