Comprehensive Port Management Information System

Klein Systems Group Ltd., Vancouver, Canada

Maritime domain awareness
Safely control vessel traffic via the KleinPort interface to Vessel Traffic (VTS) or Automatic Identification (AIS) systems. Enter vital security related information to maintain compliance with ISPS code Port and Facility Plans. Track dangerous cargoes that arrive, depart and transit the maritime region of interest, while also managing all incidents and delays. Configure warning messages to notify users of any abnormal practices or omitted procedures. KleinPort increases awareness and security in the maritime domain.

Voyage booking
Vessel activities and cargo details are recorded in KleinPort. Authorised users are able to input critical information directly to the system via a secure web interface. Electronic manifest information can be sent via email. Data is validated against pre-configured system business rules to ensure accurate processing and improve operating effectiveness.

Status tracking & conflict identification
Through the use of configurable ‘status’ settings, a vessel visit is easily tracked. Users are constantly kept aware of the current situation as well as the next operational step during the vessel’s stay in or transit through the maritime domain. Statuses of vessels, cargo and accounts can also be accessed via the web interface, providing significant organisational benefits and improving communications with customers. KleinPort’s sophisticated Conflict Identification system warns of potential issues such as multiple bookings to the same berth, vessel draft violations, channel conflicts, and a lack of confirmed resources to service the vessel to name a few.

Berth planning and graphical tools
KleinPort has a number of tools to assist in planning. The Berthing Tool gives a graphical view of the vessels and berths, providing the ability to accurately re-position vessels to specific pier marks or to adjacent berths. The Ships in Port view shows all berths and anchorages in the maritime domain plus the identity and particulars of vessels at those locations.

Service planning and tracking
Whatever the required service, KleinPort is capable of confirming resources and recording relevant details for planning and billing purposes. Default services can be defined for specific activities, system locations and vessels to simplify setup. Accurate provision of available services ensures maximum realisation of revenue and a smooth port call for the customer.

Cargo manifest input
Capturing accurate and comprehensive cargo data is accomplished electronically through a variety of message formats and communications protocols. All imported data is validated and converted, where necessary, to customer specific internal codes. The manifest editor allows for manual entry of manifest data input and editing of electronically input data. Wharfage tariffs are automatically calculated for each manifest in accordance with customer contract details. The result is immediate and accurate recording of cargo revenue and statistical data.

KleinPort available modules include:
- AIS and VTS Integration
- Vessel Scheduling
- Pilot Dispatch
- Tug Dispatch
- Services Management
- Cargo and Container Tracking
- Electronic Data Interchange
- Property Management
- Tariff Management
- Integrated Billing
- Financial Accounting Interface
- Statistical and Management Reporting
- Customer and Community Web Portals
- Hand Held and Mobile Device Interface
- Enterprise Service Bus
- Report Writers

Integrated invoicing
KleinPort’s robust billing module is configurable to calculate a wide variety of tariffs such as dockage, wharfage, water, electricity, equipment usage, rents, delay penalties, storage and manpower time. The billing module is seamlessly integrated with all the operational components of KleinPort. Complex tariffs are easily added and modified and the system also manages customer specific commercial contract details.

Management reporting
The production of management reports has never been easier. KleinPort supports many system reports such as vessels in port, berth utilisation and a traffic report. Powerful built-in query capabilities, coupled with a graphical reporting tool facilitate the ad hoc creation of custom, user driven reports, which can then be saved and exported in spreadsheet or HTML formats. All KleinPort data is available to address the informational needs of management, stakeholder, and stakeholder reporting.

ABOUT THE COMPANY
Klein Systems Group Ltd. is an international software development company specialising in the automation of business operations processes and their seamless integration with financial accounting. Founded in 1982, the company has developed and implemented comprehensive systems for leading maritime customers in Canada, the U.S. and the Caribbean. Based in Vancouver, Canada, Klein has built a reputation as one of the premier firms in the maritime software field.

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