



MARINE
ENTERPRISE
Suite

Marine Enterprise Suite

Cirrus' Marine Enterprise Suite, MES, is an application designed to help ports and terminals to plan, schedule and manage vessel calls. MES meets all the demands of the modern terminal, applying planning and scheduling algorithms, performance monitoring, terminal analytics and interactive vessel Gantt charts to ensure vessel ETAs can be accommodated and the best utilization of resources achieved.

The application architecture supports in-house and cloud hosting. Web API's allow easy integration to other terminal applications and web services to collect and share information with the port community.

At the heart of the suite is a scheduling algorithm which enables the efficient scheduling of vessels to and from the terminal whilst taking into consideration the terminal business drivers, vessel vetting, resources, infrastructure, safety and marine conditions.

The application provides the scheduler with the ability to achieve optimum terminal throughput, reduce vessel waiting time and meet the terminal operating objectives.

BENEFITS

- ▶ Increase terminal throughput
- ▶ Reduce waiting times
- ▶ Improve service levels and meet contractual performance targets
- ▶ Extend real-time communication of the vessel schedule
- ▶ Identify spot cargo opportunities
- ▶ Reduce demurrage
- ▶ Simulate and prove the effectiveness of decisions before taking action
- ▶ Increase asset utilisation
- ▶ Drive efficiency and measure terminal performance
- ▶ Improve safety

Improve Planning and Scheduling

MES-SEABERTH brings together in a single database vessel, berth and nautical information. SEABERTH assists the scheduler by alleviating the need to consult tide charts, vessel databases and resource spreadsheets. Instead, the SEABERTH algorithm quickly identifies suitable berthing options and the appropriate transit times, ensuring the safe passage of the vessel call.

- ▶ Increase schedule reliability
- ▶ Increase berth utilisation and reduce waiting time
- ▶ Ensure compliance with nautical restrictions and safety requirements
- ▶ Minimise maintenance impact on vessel schedules
- ▶ Model terminal constraints and capacity dynamics
- ▶ Multi-Modal scheduling, vessels, tugs, pilots, pipeline, railheads
- ▶ Reduce human error and speed up the planning process

Increase Terminal Throughput

Investing in an algorithm-based planning and scheduling application enables terminals to get more cargo across the dock by using “best fit” rather than a simple “first come first served” approach to vessel scheduling. As SEABERTH’s scheduling algorithm instantly highlights options for the scheduler to consider, ETA information can be evaluated to improve vessel dwell time and terminal throughput.

- ▶ Prioritise the schedule to increase profit margin and reduce cost
- ▶ Identify spot cargo opportunities
- ▶ Optimise vessel visits
- ▶ Identify port utilisation and efficiency opportunities
- ▶ Reduce demurrage
- ▶ Better manage inventory capacity
- ▶ Evaluate and compare multiple planning strategies

Improve Port Communication

Having a single data repository and vessel schedule available on-line, enables the port community to better synchronize and co-ordinate work plans. Information can be filtered and screens configured to show the most relevant information for the recipient, information is refreshed in real-time, maintained and published by the scheduler. The on-line, real-time, availability of information ensures all resources are fully aligned with the plan helping to increase efficiencies for all the stakeholders.

- ▶ Provides a real time insight into berth movements
- ▶ Reduction of delay time and demurrage due to poor co-ordination of resources
- ▶ Centralise the control and management of information easily
- ▶ Reduce telephone calls and email traffic
- ▶ Connects all parties with flexible reporting tools
- ▶ Configure screens to suit each party

To learn more about how we can help you make your operation more efficient and cost effective, contact us today at cirruslogistics.com

US Office

286 South Main Street, Suite 100
Alpharetta, GA 30009 USA

UK Office

9a Cedarwood, Chineham Park
Basingstoke, RG24 8WD

t +44 (0) 1253 602920

e enquiries@cirruslogistics.com

w www.cirruslogistics.com