



COLLABORATIVE OPTIMISATION SOLUTION

Multi-party collaboration on a common platform

Real-time data exchange between **ship owners and managers, ports, terminals, pilotages, and waterways** for advanced digital planning and streamlined operations on a common platform.



Relevant UN SDGs



Benefits for Ports

Streamlined, collaborative port calls to enhance efficiency, safety and sustainability

- Increase operational efficiency and maximize intermodal coordination
- Reduce port congestion and optimise resource allocation
- Minimize time at anchorage and improve port throughput
- Enhance compliance & security



Benefits for Ship Owners & Managers

Facilitate Port Call Optimisation and JIT Arrival

- Empower ships to optimise their steaming speeds and reduce emissions
- Ensure timely vessel arrivals based on berth availability
- Get real-time updates on vessel movements and potential delays
- Reduce operational costs



Benefits for Terminals

Predictability and optimisation of berth departures and arrivals

- Advanced planning with real-time collaboration
- Augmented digitalization for adaptation to last mile delivery deviations
- Enhanced planning of berth schedules with land side logistics
- Decreased terminal turnaround time



Benefits for Pilotage Authorities

Enable advanced planning and predictability for pilot assignments

- Real-time information on vessel movements and berth schedules
- Optimise use of available resources
- Reduce navigational risks
- Increase throughput



Benefits for Waterways

Vessel predictability, risk mitigation and lock optimisation

- Enhance lock optimisation for a smoother traffic flow
- Respond to vessel delays and schedule changes in real time
- Mitigate risks such as vessel grounding in congested/hazardous areas
- Enhance communication during emergency situations and improve navigational safety

AI-powered Predictive Analytics

Real-time Decision Making

Environmental & Cost Efficiencies

Berth Schedule Optimisation

Environmental Performance Management

Lock Schedule Optimisation

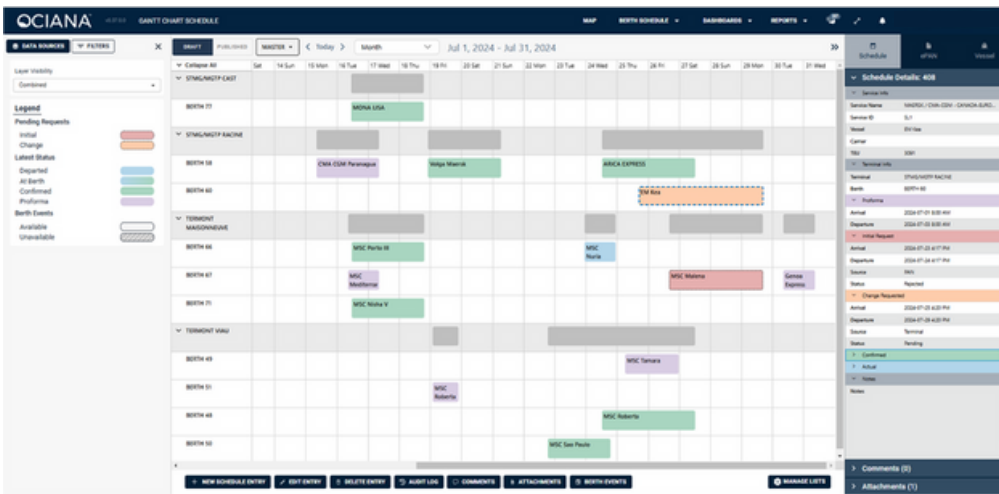
Resource Management

Vessel Delay Notifications

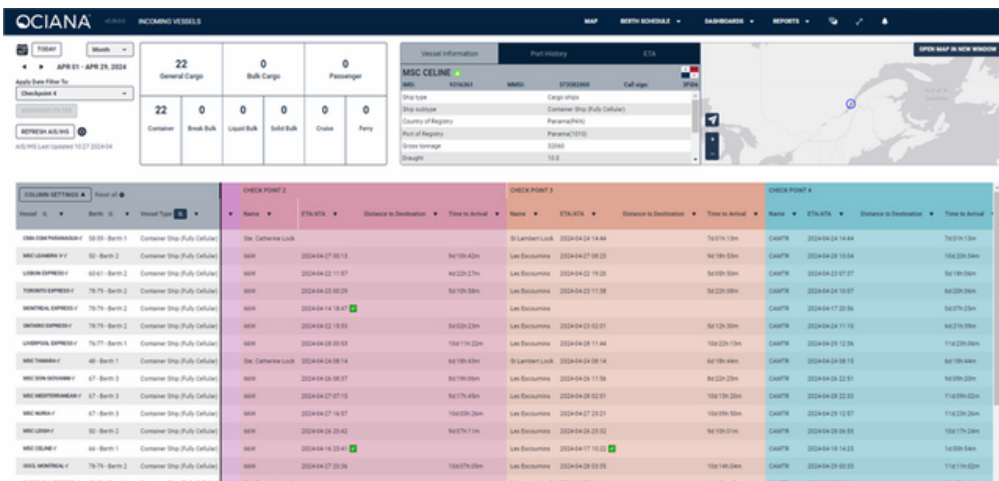
Risk & Compliance Management

Anchor Management

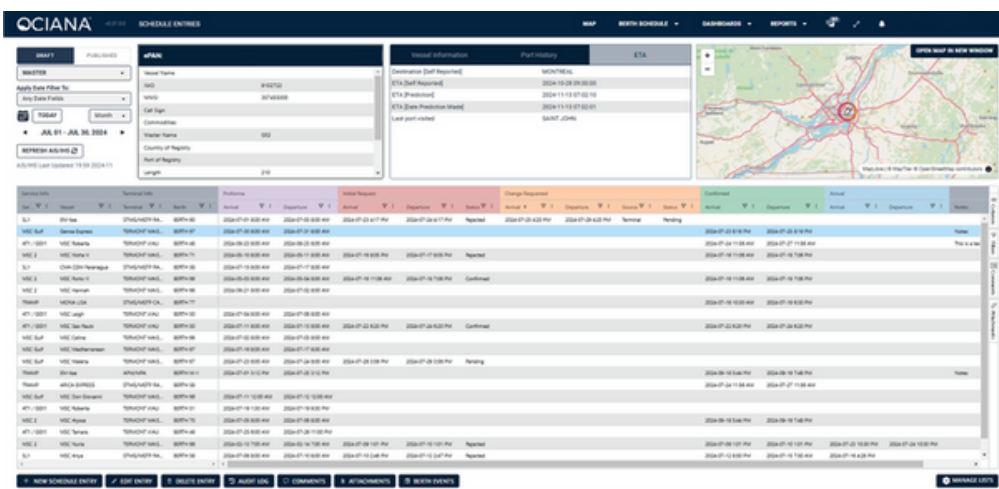
Ice Jam Predictions



Gantt Chart Screen



Incoming Vessels Screen



Schedule Entries Screen

Contact GSTS for more information: sales@gsts.ca