



BY MAGELLANX  | Worker Safety

Leading Ship Manager Case Study

How leading ship manager used SOL-X Solution to increase crew productivity and compliance, freeing up more than 4,000 manhours per vessel per year

12

manhours saved daily on average

100%

crew satisfaction

Assurance

of procedural compliance

Visibility

of crew and operations

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SOL-X is a safety solution developed around the human element. It provides real time data and transparency to promote better engagement and more informed decision-making. It improves efficiency and supports our overall drive towards sustaining our safety culture across the board.

- Chief Operating Officer, Leading Ship Manager

Profile of Ship Manager

A leading ship manager with a global footprint and workforce size of more than 5,000 seafaring professionals.

Challenges

- Need to enhance existing Safety Management System (SMS) assurance and compliance.
- Lack of operational visibility as line of sight is often not available; limited crew situational awareness.
- Burdensome paperwork for crew.
- Disconnected operational information flow between ship and shore.

Business Objective

To transition to Industry 4.0, leading ship manager sought a comprehensive digital Permit To Work solution that can leverage on existing SMS methodology and technological advancements to further enhance safety and compliance of vessel crew and their operations.

Limitations of Existing System

- Manual, paper-based forms are inefficient and time-consuming for crew.
- Inconsistent local practices on board lead to clerical errors and reduce assurance.
- Permit management for compliance administration is managed separately from actual operations.
- Reliance on lagging safety indicators limits ability to prevent safety incidents from occurring and reoccurring.
- Post-work paper filing and manual audit preparations.

Requirements for New System

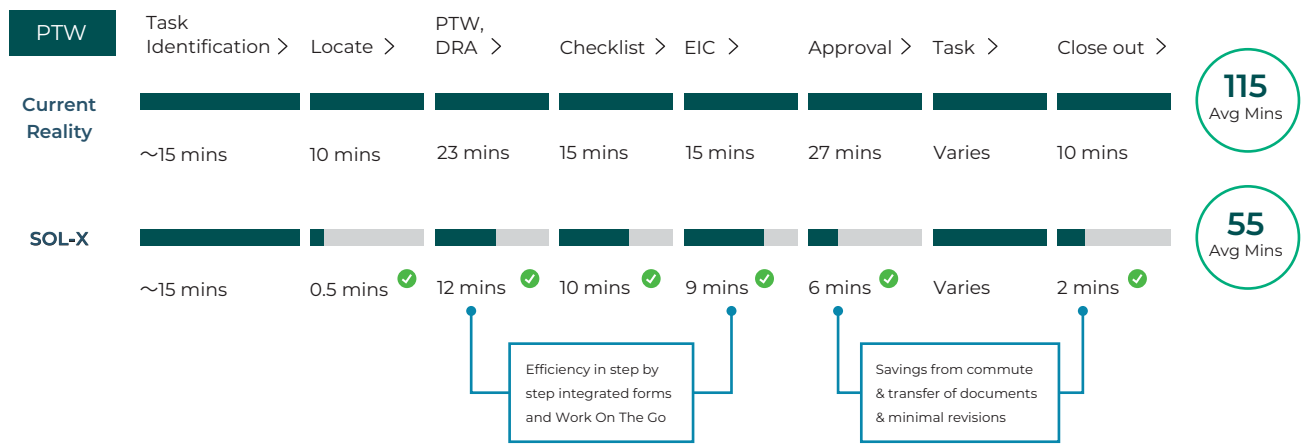
- Digital permit system that incorporates existing workflows with best-in-class permit management process.
- Proven track record of operational efficiency gains that add value to the business.
- Forward-thinking technology solution that can leverage permit information to improve safety standards and culture.

Solution

Leading ship manager selected SAFEVUE.ai, an industry-leading Behavior Based Safety system that combines enhanced Control Of Work with a holistic approach to Crew Wellbeing – improving worker health and safety culture.

Results

Operational Excellence



- Crew realizes an average time savings of 60 minutes per Permit To Work (PTW) – adding up to approximately 12 manhours saved per day, or over 4,000 manhours per year. Such time savings free up the crew to perform higher value and critical tasks, such as equipment and machinery maintenance, contributing to faster Return on Investments.
- Improved Control Of Work with streamlined planning and execution through an integrated Permit To Work platform that combines multiple forms integrated with both crew and operational information. Completed digital permits, risk assessments and safety checklists documents are consolidated and stored in a single system. These documents are automatically synchronized from ship to shore in near real time, enabling easy access and remote auditing capabilities.
- Work On The Go facilitates seamless flow of near real-time information, which provides vessel and shore management with greater situational awareness.
- Automatic archiving of terminated digital permits eliminates need to sort and file paperwork. Officers also recognize the benefits of reduced audit preparation work by allowing auditors controlled remote access, thus removing need for vessel crew to sift, scan and send emails.
- Better permit accuracy with pre-populated fields reduces need for re-work.

Safety and Compliance

- Vessel officers experience enhanced crew and operational visibility enabled by location tracking and permit management dashboard. Heightened situational awareness of the rest of the crew and their respective jobs improves communication among crew, as well as cumulative risk management for the officers. Ease of monitoring of mustering and drills has improved efficiency.
- Promotes stronger safety culture and crew behavior change, as the digital permit system encourages crew to follow the correct procedures, promotes consistency in practice across the fleet, and offers enhanced situational awareness.
- Improves assurance of safety risk compliance with the addition of peripheral information, including location and time stamp, and crew pin logins, replacing previous subjective manual controls.
- Provides greater assurance that Control Of Work processes are followed, as all digital permits, detailed risk assessments, forms and checklists are fully integrated with enhanced system controls. This provides officers with Behavior Based Safety information and leading indicators that the right skilled crew is conducting the appropriate job, according to safety procedures at the right time and site.
- Provides near real time data and the means to continuously analyze high-risk operations on board for continuous improvements, through leading indicators and crew safety behavior. These enable officers to standardize and share safety best practices across the fleet.

Crew Welfare

- Crew Assist feature has proven useful for crew in emergency situations, shortening discovery by their peers to near instantaneous. This provides an alternative to raising alerts for additional assistance when walkie talkie use is not feasible or unavailable.
- Assurance of safety in lone worker situations builds awareness and positive behavior change.
- Proactive workload management provides timely information on work and rest hours to reduce risk of fatigue.
- Reduction in burdensome paperwork, improved efficiency, more proactive workload management and the empowerment of crew to manage their own safety have improved morale crew on board the vessel, particularly during overtime.

Business Competitiveness

- Capability for real time monitoring, Behavior Based Safety Observations, and safety operations leading indicators can potentially lead to a Tanker Management and Self Assessment (TMSA) rating upgrade, due to the raised safety culture.

Conclusion

SOL-X Solution is continually improving the lives of seafarers by bridging crew and operational information. We are already working on the next generation of solution enhancements, for Crew Workload Management and Crew Health and Wellbeing, which will further revolutionize the industry.

You may find us at magellanx.co or contact us at contact@magellanx.co for further enquiries.



83 Clemenceau Avenue
UE Square, #17-05 Singapore 239920

+65 6721 3023
contact@magellanx.co

