



Marine Asset Management System (MAMS)

Marine Asset Management System (MAMS) - A web based integrated fleet management system – keeping your operational costs down and simplifying management



MAMS Fleet Management Software

SDSD's Marine Asset Management System (MAMS) is a unique **web based integrated fleet management system** covering all aspects of ship management.

Unlike existing systems the MAMS online application based design brings direct and immediate cost benefits through reduced hardware costs, ready available modules, and secure online and smartphone access. MAMS is designed to reduce the operational cost for ship operators, improve efficiencies and help accelerate growth. MAMS is simple to use and complies with the latest regulations. The built-in business performance management tools including fleet-wide charts, dashboards and reports assist in informed decision making.

SDSD offer flexible payment options including monthly subscriptions, and we do not charge for upgrades. We also provide comprehensive data entry services to ensure that the software is ready to use from day one.

With offices in London, Singapore, Houston, Athens, Sofia, Lagos and Chennai, SDSD has been an **established, trusted and leading maritime software brand since 1983.**

MAMS modules available via the online portal:

- > Planned Maintenance
- > Safety Management
- > Document Management
- > Forms Management
- > Crew Management
- > Procurement Management
- > Risk Assessment
- > Rest Hours
- > Environment Management
- > Vessel Accounting
- > Voyage Monitoring

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> Datasheets:


- > Benefits derivable from MAMS page 1
- > MAMS - Integrated solution page 2
- > Planned Maintenance System page 3
- > Safety Management page 4
- > Crew Management page 5
- > Procurement Management page 6
- > Rest Hours page 7
- > Risk Assessment page 8
- > Document Management page 9
- > Forms Management page 10
- > Environment Management page 11
- > Shipping Financial Management page 12




Fleet Management simply re-defined with **MAMS** new generation fleet technology:

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Web based
Access MAMS anytime, anywhere through smart phones and tablets as well as via your PC




Ensuring Compliance
Enables regulatory compliance with latest IMO, OCIMF guidelines




Built-in business intelligence
Monitoring/ reporting, using tools including dashboards, charts and reports for key analysis

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Maximizing fuel efficiency
The advanced tools and reports monitor oil consumption, and can assist you in a consumption cost.



Enhanced Monitoring
Process monitoring with proactive email alerts and notifications.



Minimizing repair costs
PMS job schedule alerts, reducing machinery breakdowns and ensuring maintenance is carried out on time.



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All aspects of Fleet Management, Integrated into an easy to maintain system:

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Planned Maintenance Proactive auto-alerts covering a variety of maintenance related processes ensure that maintenance issues are tracked and efficiently managed.

Safety Management The system offers built in dashboards & charts to help end users including Marine Safety Managers & Superintendents to analyze safety related records efficiently.

Crew Management Login access of Crew management can be given to head office, branch office, manning offices and travel agents in a secure environment.

E-Procurement Management The system is designed with advanced tools to monitor the entire purchasing process, helping to purchase goods and services from external providers and integrates with **Vessel Accounting**.

Rest Hours It complies with guidelines issued by International Labour Organization (ILO), OCIMF, MLC 2006 and the International Maritime Organization (IMO).

Risk Assessment Fleet wide risk assessments can be preloaded based on the specific company requirements. The system enables shore staff to review and acknowledge risks.

Document Management enables managers to organize company ISM manuals, circulars and files with revision control options. The system is designed with advanced search options.

Forms Management enables ship staff to fill in the daily, monthly and weekly forms and checklists, in e-format & send them directly to the office through the system.

Environmental Management The system has built in formulas for emission calculations; compliant with MARPOL Annex VI for Ship Energy Efficiency Management Planning (SEEMP).

Shipping Financial Management has integrated accounting, finance and procurement modules that provide real time financial reporting across the fleet.

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SDSD's Planned Maintenance System (PMS) is designed to proactively manage the maintenance of vessels, resulting in efficient, cost-effective operations and maximized earnings for ship owners and Managers. **SDSD's PMS software is type approved by BUREAU VERITAS.**



The MAMS system provides a unique online portal based **Planned Maintenance System**. The system is fully integrated with Machinery, Inventory, Maintenance jobs and Surveys, and provides comprehensive fleet wide maintenance status.

Proactive auto-alerts covering a variety of maintenance related processes ensure that maintenance issues are tracked and efficiently managed.

The module provides maintenance related reports generated by simple clicks, helping support informed decision making and factual analysis.

Superintendents and Technical Fleet Managers can monitor processes via blackberry, iPhone, iPad, Android or Windows device anytime anywhere.

Key features include:

- ✓ Record machinery details with maker model, etc.

- ✓ Inventory management and spare part store details.
- ✓ Maintenance job details and critical job details.
- ✓ Maintenance job scheduler
- ✓ Option to complete jobs and view the history.
- ✓ Provision to enter un-planned jobs.
- ✓ Option to view ROB, enter the ROB and consumption of all spare inventory items.
- ✓ Option to enter class survey and complete class survey items.
- ✓ Defect tracking items (repair jobs).
- ✓ Monitor the vessel certificates.
- ✓ Enter inspections (ISM, ISPS, and Superintendent Inspection) and follow-up inspections.
- ✓ Condition monitoring of all machineries.

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Vessel and Crew safety is of paramount importance to all maritime organizations. The MAMS Safety Management System is a comprehensive tool which enables vessel owners and operators to manage safety, reduce risk, to prevent human injury or loss of life, and follow best practices.

Key Features include:

- ✓ Customizable safety workflow system based on company specific requirement.
- ✓ Record incident, accident, near miss and follow-up.
- ✓ Enter NC, observation and follow up (corrective action list).
- ✓ Root cause analysis for all safety related items.
- ✓ Corrective action request for break-down, COC items, etc.
- ✓ Provision to have emergency contact details (oil spill, port authorities, owner, manager, etc.)
- ✓ Master and chief engineer handing over take over.
- ✓ Safety meeting and follow-up.
- ✓ Master management review.
- ✓ All safety related reports can be customized to each shipping company and their specific regulations.
- ✓ Charts have a drill-down feature to allow users to move down to granular-level data.
- ✓ Built in proactive safety alerts for informed decision making.

The Safety Management System offers built in dashboards and charts to help end users including marine safety managers and Superintendents to analyze safety related records efficiently.

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MAMS Crew Management is an advanced software solution designed to optimize crew management. This module allows shipping companies to have a clear view of crew CV data, payroll, relief plan, appraisal and training.

The **MAMS Crew Management System** eliminates bottlenecks, simplifies the crew process and helps ship owners and ship operators to reduce operational costs.

The web based design of the crew management module means that the login access can be given to head office, branch office, manning offices and travel agents in a secure environment.

In simple steps, the system generates dynamic reports including crew CV, crew list, portage bills, allotment details, crew agreement, appraisal reports etc.

Proactive auto-alerts designed to monitor expiries including crew passport, STCW certificates, vaccinations and other crew related data, ensuring vital crew information is tracked effectively.

Built in dashboards and charts help end users (crew manager/executives) analyze crew data records efficiently. Charts have a drill-down feature to allow users to move down to granular-level data and perform in-depth spend analysis for a specific record.

A comprehensive appraisal system ensures that all members of the ship staff are evaluated and benchmarks designed.

The payroll module allows users to generate complex payroll and has the flexibility to enter all fixed and variable earnings, deductions, allotments, allowance, overtime, etc. The portage bill, salary slip, etc. can be customized to each shipping company.

A crew relief planner is included with approval process.

Designed with comprehensive training, the module helps to plan and track crew training process.

With an option to record travel, accommodation and other costs.

Built in OCIMF Crew Matrix to identify and match Oil Major Requirements.

The online design enables users to access data via smartphones and tablets.



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MAMS web-based Procurement Management is a user friendly, comprehensive module which covers the complete purchasing process including requisitions, request for quote (RFQ), supplier details, online quotations, quote comparisons, online approval, purchase orders and invoices. The system integrates with the SDSD Accounting Modules.

The Procurement module is designed to optimize the full purchasing process and is fully integrated with the MAMS fleet management system.

Key Features include:

- ✓ Initial requisition creation and approval on ship and at the office
- ✓ Tender processing with auto email functionalities
- ✓ Direct RFQ email option for each selected suppliers
- ✓ Real time online quotations from suppliers
- ✓ Quotes comparison and approvals
- ✓ Purchase order and invoicing
- ✓ Budget creation and cost monitoring
- ✓ Automatic updates of Vessel Inventories upon delivery on board (PMS module)
- ✓ The module integrates with accounting systems including the Trans Series to ensure full budget control and financial projection.
- ✓ Inbuilt tracking and business intelligence tools for key analysis including Procurement Status report, Annual Budgeting and Budget Variance report (per vessel)
- ✓ Quick and efficient IMPA stores, spares and other consumable requisitions
- ✓ Integrated with ship inventory which provides info on stock on board and consumption history

The MAMS fleet management software is customizable and is designed with the flexibility to meet your workflow needs.

SDSD offer flexible payment options including monthly subscriptions, and we do not charge for upgrades.

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SDSD Crew Rest Hours Management is designed to monitor and manage crew rest hour records in compliance with guidelines issued by International Labour Organization (ILO) and the International Maritime

Key Features include:

- ✓ Option to prepare crew list.
- ✓ Option to enter daily rest hours and record shipboard working arrangements.
- ✓ Option to identify rest hour breaches and non-conformities.
- ✓ Standard reports in pdf, excel and html.
- ✓ Copy records provision for quick entry.
- ✓ User friendly pop-up warning messages to avoid incorrect entries.
- ✓ Provision to send data to office for further analysis.
- ✓ Option to use the application in LAN (multiple computers).
- ✓ Option to enter ship particulars.
- ✓ Designed with multiple user levels.
- ✓ Unlimited user access (logins).
- ✓ Ability to lock records to avoid misuse of data.
- ✓ Flexible application - customize reports and include analytical tools based on customer requirements.
- ✓ Absolute tracking tool to prepare for inspections and audits.

With **SDSD Crew Rest Hour Management** is quick and easy to maintain the onboard work arrangements and record crew rest hours.

The online application provides comprehensive analytic tools to analyze non-conformities and rest hour breaches.

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Risk Assessment, along with the Safety Management module, is a comprehensive tool enabling vessel owners and operators to manage safety, reduce risk, prevent human injury or loss of life, learn and share company safety and risk policies and best practices, **helping users meet OCIMF and IMO regulations.**

Key Features include:

- ✓ Customizable Risk Assessment Matrix (3x3, 4x4 or 5x5) based on shipping company requirements.
- ✓ Customizable severity and likelihood factors.
- ✓ Preloaded risk assessment
- ✓ Auto risk calculation
- ✓ Risk reviews by shore staff
- ✓ All safety processes can be monitored anytime via smart-phones and tablets.
- ✓ Integrated Risk Assessment with Planned Maintenance workflow. Also this can be subscribed as an individual module.
- ✓ Easy to use range of built in dashboards and reports.
- ✓ Drill down features to allow users to move to the granular level data as required.

The MAMS Risk Assessment module is a perfect tool to manage Risk efficiently and reduce loss to human, machinery and environment.

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The MAMS Document Management module enables managers to organize and manage their documents, including company IMS manuals, circulars and related documents.

The module is designed to ensure documents are edited, shared and revised easily and securely.

Key Features include:

- ✓ Powerful search enables documents and manuals search based on exact words/phrases.
- ✓ All documents and ISM manuals generated go through an approval process based on unique company requirements.
- ✓ Data synchronization between the vessel and office ensures consistency.
- ✓ Documents can be made as read-only to the vessels.
- ✓ The system enables shore staff e.g. the safety and quality dept. to review and edit controlled manuals and documents as required to ensure they remain current.
- ✓ The system generates revision numbers, dates and captures the identity of personnel who create edits. Previous versions can be viewed in the system.
- ✓ Company Circulars can be uploaded per category and easily sent to the fleet.
- ✓ Company ISM Manuals can be categorized by document type and chapter.
- ✓ The Forms Management module replaces all traditional paper based forms and checklists filed by ship staff for a true paperless system.

The MAMS fleet management software is customizable and is designed with the flexibility to meet your workflow needs.

SDSD offer flexible payment options including monthly subscriptions, and we do not charge for upgrades.

Our experienced data entry team can take care of initial manual entry on your behalf.

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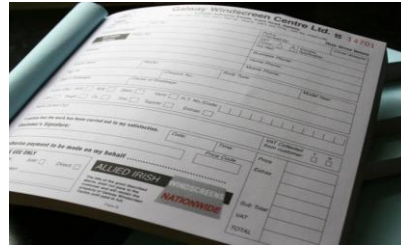
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The innovative Forms Management module replaces all traditional paper based forms and checklists filed by ship staff and opt for true paperless system.

Key Features include:

- ✓ Electronic format of the daily, monthly and weekly forms.
 - ✓ Checklists designed and uploaded in the system.
 - ✓ It enables Ship staff to fill in the forms and checklist in electronic format.
 - ✓ It also enables Ship staff to send all forms to the office through the system instead of via huge email attachments and hard copies.
 - ✓ The complete history of forms can be stored in the system and it is retrievable anytime.
 - ✓ The tracking of old filled forms and checklist are hassle free.
- Shore Staff (for example manager and superintendents) can monitor all the above forms and checklist with their smartphones and tablets anytime anywhere.

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SDSD's Environment Management Software assists you in complying with the **MARPOL Annex VI guidelines for Ship Energy Efficiency Management Planning (SEEMP)**, and enables users to monitor "Green House Gas" emissions.

Key Features include:

- ✓ Option to split up quarterly or half year basis of consumptions and emissions
- ✓ Option to enter oil consumption for main engine, aux. engine and boilers
- ✓ Option to enter emissions per vessel with unlimited user access (log-ins)
- ✓ In built formula to calculate emissions, including Nox, Cox, etc.
- ✓ Standard reports in pdf, excel and html; copy records provision for quick entry
- ✓ User friendly pop-up warning messages to avoid incorrect entries
- ✓ Provision to send data to office for further analysis
- ✓ Option to use the application in LAN (multiple computers) and over the Internet
- ✓ Option to enter ship particulars and multiple-user levels designed
- ✓ Ability to lock records to avoid misuse of data
- ✓ Flexible - customizable reports, including analysis tools based on customer requirements
- ✓ Absolute tracking tool to prepare for inspections and audits
- ✓ In built reports provide a complete history of emissions
- ✓ Comprehensive fleet analysis capabilities

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SDSD's integrated accounting, finance and procurement modules provide real time financial reporting across the fleet.

Providing multi-business and multi-currency accounting reporting and analysis.



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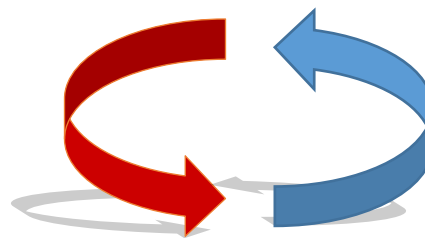
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Vessel Operations Accounting Module

- ✓ Consolidated Accounting System
- ✓ Budget Control System
- ✓ Loan Management System
- ✓ Fixed Asset System
- ✓ Receivables Management System
- ✓ Payables Management System

E-Procurement Module

- ✓ Tender processing with auto email functionalities
- ✓ Real time online quotations
- ✓ Quotes comparison and approvals
- ✓ P.O. and invoicing
- ✓ Budget creation and cost monitoring
- ✓ Business intelligence tools for key analysis



Operator Lifecycle Financial Management Module

- ✓ Charter Base Management System
- ✓ Port Expense Management System
- ✓ Bunker Management System
- ✓ Vessel Revenue and Expenditure Report
- ✓ Funds Transition Report

Owner Lifecycle Financial Management Module

- ✓ Financial Projection System
- ✓ Time Charter Management System
- ✓ Vessel Cost Management System