Easily Monitoring complex ship management operations.

Advanced ship management system, Marine Office PMS

With our advanced ship management system, Marine Office PMS, you can link shore office and vessels with just one click.

Manage your complex ship management operations more systematically and efficiently with "Marine Office PMS".

Easy way of monitoring the status of complex ship management including expense, maintenance, supply, inventory, survey, repair, etc.

Epoch-making improvement of the business process and accuracy of ship management operations.

Cost reduction for ship management operations through the prevention of accidents/malfunctions and redundant/omitted work as well as the timely management of vessels.

Easy inquiry about the information on history management, and performance records, statistics and analysis regarding ship management operations.

Accurate and convenient processing of work no matter when or where you are, at the company, on business trip, or at home.
Marine Office **PMS**
Ship Management System

**Product Components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Office Suite</td>
<td>Manages, monitors, and supports overall operation of sub-system: work portal, vessel monitoring, alert, groupware, integrated electronic approval process, external customer support, various information.</td>
</tr>
<tr>
<td>PMS Planned Maintenance System</td>
<td>Standardizes maintenance guidelines, cycles, staff for each equipment maintenance item and predicts maintenance time, establishes maintenance plans, manages maintenance results according to the maintenance guidelines, inquires about maintenance history and analyzes maintenance results.</td>
</tr>
<tr>
<td>Survey Class Inspection</td>
<td>Predicts inspection date, establishes plans, manages results, inquires about history, and manages related documents.</td>
</tr>
<tr>
<td>General Repair</td>
<td>Standardizes a large number of vessel equipments, processes equipment repair requests, multiple quotations, orders, inspections and expenses, inquires about repair history and analyzes repair results.</td>
</tr>
<tr>
<td>Dock Repair</td>
<td>Establishes vessels’ docking plans, finalizes docking specifications based on the standard docking specifications, executes repair, monitors repair status.</td>
</tr>
<tr>
<td>Purchase &amp; Supply</td>
<td>Standardizes a large number of vessel equipments, processes bills for vessel equipments, processes multiple quotations, orders, inspections and expenses, inquires about supply history, and analyzes supply records.</td>
</tr>
<tr>
<td>Inventory</td>
<td>Manages delivery of vessel equipments and inventory details and history.</td>
</tr>
<tr>
<td>DMMS Drawing and Manual Management</td>
<td>By storing information regarding a large number of vessel drawings saved in the drawing room in the electronic media, drawings and manuals can be utilized at any time and place. That information can also be used in other related operations including maintenance, repair, purchase, supply, and inventory management.</td>
</tr>
</tbody>
</table>

With the accurate and convenient system which can be accessed no matter when or where you are, at the company, on business trip, and at home.

Conveniently used for overall business operations and processes including approval process and data transmission and reception.

Epoch-making improvement of business accuracy by preventing redundant and omitted work and operation mix-up.

Easy and accurate identification of the complexly connected series of operations including maintenance, inventory management, supply, survey, repair, etc.

Real-time monitoring of the status of ship management operations and timely execution of them.

Real-time monitoring of the maintenance and inventory status of vessels in easy way.

Easy and convenient data analysis and inquiry about history, performance, statistics.

Please refer to our homepage [http://www.thinkmarine.com](http://www.thinkmarine.com) for more product information and experience.
ISO, ISM, ISPS... Audit, Non-Conformity, CA/PA...
Good partner for vessel safety & quality control!

Safety & quality management system,
Marine Office S&Q

ISO, ISM, ISPS, SOLAS, MARPOL..., strengthen international laws!
Systematic management and fast preparation is the key!

“Marine Office S&Q” - Safety & quality management system
✓ Fast distribution of regulations to vessels, audit, non-conformity and CA/PA...
good partner for vessel safety & quality control!
✓ Assist vessels in preventing and managing accidents such as reporting, monitoring, fast news, and training against accidents.
✓ Manage and analyze audit such as ISO/ISM/ISPS, non-conformity, CA/PA.
✓ Manage and analyze boarding inspection, PSC/FSC inspection.
✓ Support for right decision making through analysis of true information from audit, non-conformity, inspection, and CA/PA, etc.

“Marine Office S&Q”, safety & quality management system, will assist to prepare for the strengthening international laws systematically and quickly.
Marine Office S&Q
Safety & Quality Management System

Product Components

Marine Office Suite
manages, monitors and supports overall operation of sub system: work portal, vessel monitoring, alert, groupware, integrated electronic approval process, external customer support, various information

RMS REGULATION MANAGEMENT SYSTEM
manages effectively new and updated regulations and manuals, history management, integrated search, and prompt distribution to vessels

ACCIDENT
manages all accident information, monitoring the process, publishing instant news, and analysis report for handling information for emergent accidents, vessels, assigned supervision, controlling accident and investigation data of safety team

AUDIT/NON-CONFORMITY
manages company’s international or external audit plan for shore office and vessels, notifications, result, data analysis, controlling NC and CA/PA based on the audit

INSPECTION
manages plans for boarding inspection, check-list, result of PSC/FSC inspection, and monitoring correction procedure through different inspection controls

Ever strengthening international law, prompt handling with organized and fast system
Frequently updated company’s guidelines and instructions ... make new, updated documents easy & fast distribution to vessels
Maritime/Port/Technical information and accident prompt report ... send them to all the vessels right away
Work omissions that can be happen in teamwork, fast follow-up without delay when accidents happen
Monitoring the situation of non-conformity and CA/PA from audit or inspection in Real-time
More efficiently for quality assurance activity of shore office & vessels as a whole
Now, with one-click for reports for information analysis of accident, audit, and NC analysis and for decision making

Please refer to our homepage http://www.thinkmarine.com for more product information and experience.
Voyage Schedule, Voyage Report, VMS, Abstract Log, Voyage Analysis...

Simple & Easy Voyage Management System

Voyage management system, Marine Office **Voyage**

Voyage Schedule
VMS (Vessel Monitoring System)
Voyage Report (Noon / Arrival / Departure)
Automatic Abstract Log Function
Analysis of Operation Performance, ROB, Voyage Hour
Port Information

With one easy-to-use program, Monitor, Manage and Analyze hundreds of vessels’ voyage! Voyage management system “Marine Office **Voyage**”
Marine Office **Voyage**
Voyage Management System

**Improve your ability**
with Marine Office Voyage Management System.

Voyage Management!
*Experience* “Marine Office Voyage”.

Please refer to our homepage [http://www.thinkmarine.com](http://www.thinkmarine.com) for more product information and experience.
Frequent new and update regulations! The inconvenience of vessel distribution!
Send regulation to all the vessels, Right away!

Specialized marine regulation management system, Marine Office RMS

Company’s guidelines, regulations, and instructions...
Do you spend so much time and is it so inconvenient to distribute them to vessels?

Marine Office RMS will make new and updating work and history management easy, and it costs less, and distributes data instantly to vessels with one-click, and will revolutionize the work like standardization of documents, fast and accurate work performance through computerizing the related works.

“Marine Office RMS”, specialized marine regulation management system, will increase efficiency and decrease work time and cost.
Marine Office RMS is the specialized system for marine regulation management. It allows making new regulations and updating and disposing them efficiently. Search and viewing the regulation is easy. When new regulation is made or updating or disposing them occurs, it allows distributing the contents instantly to all the vessels at the same time.

<table>
<thead>
<tr>
<th>Item</th>
<th>Typical method</th>
<th>Marine Office RMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Categorized Item</td>
<td>Text is just listed without organization</td>
<td>Categorized into chapter, unit, section</td>
</tr>
<tr>
<td>Storage Form</td>
<td>Print-outs, file (word, Hansoft Form)</td>
<td>Database</td>
</tr>
<tr>
<td>Usage Form</td>
<td>Print-outs, file (word, Hansoft Form)</td>
<td>Web-based system (Effient search &amp; viewing)</td>
</tr>
<tr>
<td>New/Update</td>
<td>Very much like typical documents</td>
<td>Can add or update section by section</td>
</tr>
<tr>
<td>Managing History</td>
<td>Only final updates</td>
<td>Manage history of new/update for each section</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Keeps the updated contents</td>
</tr>
<tr>
<td>Distribut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shore</td>
<td>Print-outs, file (word, Hansoft Form)</td>
<td>On-line</td>
</tr>
<tr>
<td></td>
<td>• Too much time is spent for distribution</td>
<td>• Instant distribution</td>
</tr>
<tr>
<td>Vessel</td>
<td></td>
<td>• Very low communication cost (only updated contents)</td>
</tr>
<tr>
<td></td>
<td>• High communication cost</td>
<td>• Save cost of Man/Hour for distribution</td>
</tr>
<tr>
<td></td>
<td>• High cost of Man/Hour for distribution</td>
<td></td>
</tr>
</tbody>
</table>

**Feature**

- **Manage Regulation Database**
  - Manage regulation groups
  - Manage authorization level
  - Manage documents categorized by chapter, unit and section
  - Manage document links
  - Manage file links
  - Manage document forms

- **Manage Revision Database**
  - Manage documents, forms, update history (edition)
  - Can integrate with approval process
  - Backup the disposed regulations
  - Search new and updated contents and their history

- **Distribution to Vessels**
  - Distribution process is executed when new document is made or document is updated or disposed.
  - Only changed data is transmitted.
  - It notifies the distribution to the vessel.

- **Searching the regulation**
  - Search for the related regulations only
  - Integrated search

**Save Distributing Cost through managing updated contents**

Manage regulations in small units such as chapter, unit, and section. Enables to distribute only the part where change is made which allows transmitting minimum in size.

**Standardization of regulation in marine business**

Integrated management of all regulations, guidelines, related documents, and forms. Assist in standardizing regulation process.

**Fast distribution of update contents through On-line**

Distributing to individual vessel or all the vessels at the same time through internet. It can be used directly for work on vessels as well as on shore office.

**Improve Accessibility through integrated search**

Stores the regulation in electronic documents unlike in old styled word files or print-outs. Integrated search is possible and provides improved accessibility. Allows links between different regulations.

Please refer to our homepage [http://www.thinkmarine.com](http://www.thinkmarine.com) for more product information and experience.
Still looking for the drawings & manuals of vessels in the storage?

Specialized vessel drawing & manual management system, Marine Office DMMS

"You can use data instantly on your PC without taking the trouble of going to the crowded drawing room."

THINKmarine, a company which made computerizing hundreds of vessels’ drawing & manual possible, will systematically computerize your vessel drawing & manual and prove how much you can increase work efficiency and how much you can reduce the cost. “Marine Office DMMS” - Vessel Drawing & Manual Management System

Vessel Drawing & Manual - An indispensable data for ship management!

Is it so inconvenient because you have to find them in the storage room and copy and fax them?

Now you can access the drawing & manual you need on the system at any time.
Marine Office DMMS
Drawing & Manual Management System

Marine Office DMMS allows computerizing the vast amount of vessel drawing & manual. That enables you to use the drawing & manual at any time at any place. It also can be integrated with all other ship management work such as maintenance, repair, purchase, supply, and inventory.

"Many customers already experience the effectiveness of THINKmarine computerizing the drawings."

<table>
<thead>
<tr>
<th>Item</th>
<th>Print-out drawing &amp; manual</th>
<th>Marine Office DMMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Books, Drawings (Print-outs)</td>
<td>Database &amp; Electronic Files</td>
</tr>
<tr>
<td>Volume</td>
<td>400 – 600 books (30,000 – 400,000 pages) per vessel</td>
<td>One hard-disk or one DVD</td>
</tr>
<tr>
<td>Storage Method</td>
<td>Storage Room (Drawing Room)</td>
<td>No Storage Room is needed</td>
</tr>
<tr>
<td>Management</td>
<td>Man working hour for managing books</td>
<td>No working hour</td>
</tr>
<tr>
<td>Damage</td>
<td>Damage, loss</td>
<td>Permanent storage (No data loss)</td>
</tr>
<tr>
<td>Use Method</td>
<td>Only a few allowed people can search using the list in the storage place</td>
<td>As Many people can use them concurrently where internet is accessible</td>
</tr>
<tr>
<td>Distribution Method</td>
<td>Distribute photocopies, fax</td>
<td>Electronic distribution</td>
</tr>
</tbody>
</table>

Please refer to our homepage http://www.thinkmarine.com for more product information and experience.
New documents and materials created for businesses all the time, endless approval processes, endless communications of sending and receiving between businesses!... **How are you handling them?**

You can check the document at any time, at any place like at the company, on business trip, or at home and you can proceed to the approval process, send and receive mails, share information...

**Start standardization of work using Marine Office Groupware!**

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**Low-cost, easy to introduce!**

Standardization comes true and maximizing the effectiveness!

Specialized groupware for marine “Marine Office Groupware”
Marine Office **Groupware**

**Marine Groupware**

The work problem from vacancy caused from the business trip can be handled by SMS and ALERT. No problem!

Manage all the scattered data in PC, Web-hard, USB, CD, Fax, and mails in the company’s groupware systematically.

Build cumulative data, know-how, and work history and manage them for faster search and work performance!

Make communications for work more convenient by sharing data such as boarding schedules, all meeting schedules, and other data.

First step for customer service, providing company’s own E-mail address.

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**Feature**

- **Approval**
  - controls all the approval processes such as creating electronic approval documents and handling the process with no papers, and documents recording and inquiring them.
  - Write approval document, manage form, manage approval line, approve/reject/hold/conference, circulation/reference, approval document box, security setting, post retrieval document, absence setting.

- **Bulletin Board**
  - enables employees to share their information, knowledge, and data.
  - Hierarchical board(notice, Q&A, album), manage groups, manage categories, permissions(person, department, organization), manage pop up, move/reply/comment/recommend document, upload limit(capacity, number of file), statistics by recommend & activity.

- **Album**
  - allows managing albums for pictures with categorizing, moving, and sharing capability on the web.
  - Hierarchical album, permissions(person/department/organization), move photo, integrated search.

- **Web-Mail**
  - manages sending and receiving mails through integration of shore office/vendor/vessel information.
  - Sending & receiving mails, address book, group mail, backup & restore mailbox, personal mailbox, filtering, reply & forward for all, automatic reply, review mails.

- **Scheduler**
  - manages all schedules providing one unified calendar for schedules of different individuals & shared schedules.
  - individuals/shared schedule, user-friendly interface of calendar, repetition(yearly/monthly/weekly/daily), holiday/event setting, progress setting(before progress, under progress, completion of progress).

- **Web-Hard**
  - provides storage on the web(space for files to be saved for internet) so it allows files safety to be saved, managed, and shared.
  - individuals/shared folders, permissions by folders, manage capacity, manage personal data on the integrated server, searching file information.

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The vivid of spot which spreads on the monitor

Computer Based Training Program

MASTER SERIES

New paradigm of Marine engineer education
Meet now “Master Series”

All education is base of sensible acknowledgment and the potential possibility can be developed through properly sensible experiences

Johann deinrich pestalozzi
Master Series
Vessel Equipment CBT Solution

“
All sorts of simulation tools which provided to program can be practice like real operation that can understand complicated machinery movement mechanism and study by oneself.”

The educate organization and company can reach the maximum value when use this program as a audio-visual education and practical materials.

Product Components

### Pneumatic Master SULZER DENIS-1

- Simulation for Pneumatic Control by M/E starting, stopping, running
- Visual and dynamic Diagram
- Multifunction (Auto, Step, Time Interval)
- Actual picture and technical information

### Pneumatic Master MAN B&W 70MC

- Simulation for Pneumatic Control by M/E starting, stopping, running
- Visual and dynamic Diagram
- Multifunction (Auto, Step, Time Interval)
- Actual picture and technical information

### BOILER MASTER

- Simulation for Aux. Boiler
  - ACC (Automatic Combustion Control) by time-chart and manual control simulation
  - Boiler water level control simulation by PID controller and Parameter [SP, PB, Ti, Td]
  - Boiler sequence simulation by ACC and sequence circuit.
  - Steam pressure, F.O temperature, F.O pressure, boiler water level are changed by actual system modeling data

### PID MASTER

- Simulation for PID Control system
  - Adjusting main control parameters [SP, PB, Ti, Td] and PV(Point value), Valve open Off-Set
  - Block diagram which is applied by alteration of main control parameters

### SEQUENCE MASTER

- for Motor & Air Compressor start/stop circuit
  - Direct start/stop circuit, Y-△ start/stop circuit, Reactor start/stop circuit
  - Compensator start/stop circuit, 2nd resistance start/stop circuit
  - Pump start/stop circuit, Air compressor sequence circuit
  - Comparable start current with running current
  - Printing motor alteration of voltage[V], current[A], RPM, power[KW], slip[%], Pe[KW], Pr[KVAR], power factor in real time

**Major customers**
- STX, KIMFT, Korea Maritime University, STX Panocean, Hanjin Shipping, HMM, etc...

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