MarineOffice

SUBJECT

MarineOffice Introduction

http://marineoffice.co.kr

VERSION & DATE

V3.0 / 2017.01

SWOO E&T
*SIWOO ENGINEERING & TECHNOLOGY*

Product

+ MarineOffice – Smart solution for effective vessel managemnet

MarineOffice : Solution for effective vessel management

! Smart system that integrates the vast and complicated tasks of the ship management

Marine Office is integrated IT solution that support ship-shore-vender communication in PMS, inventory, procurement, budget, quality & safety and voyage for improved decision-making and efficiency of operations.
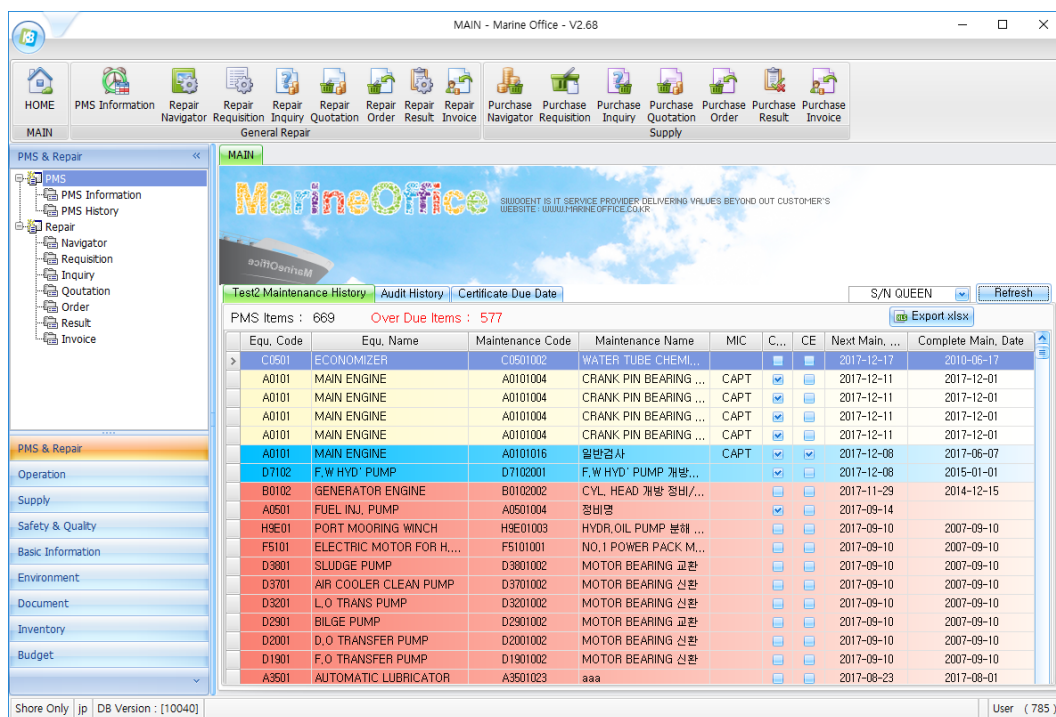
[Overview Diagram]

Internet 3G, LTE

Data Transfer (E-mail)

Shore Office

Coastwise vessel

Ocean-going vessel
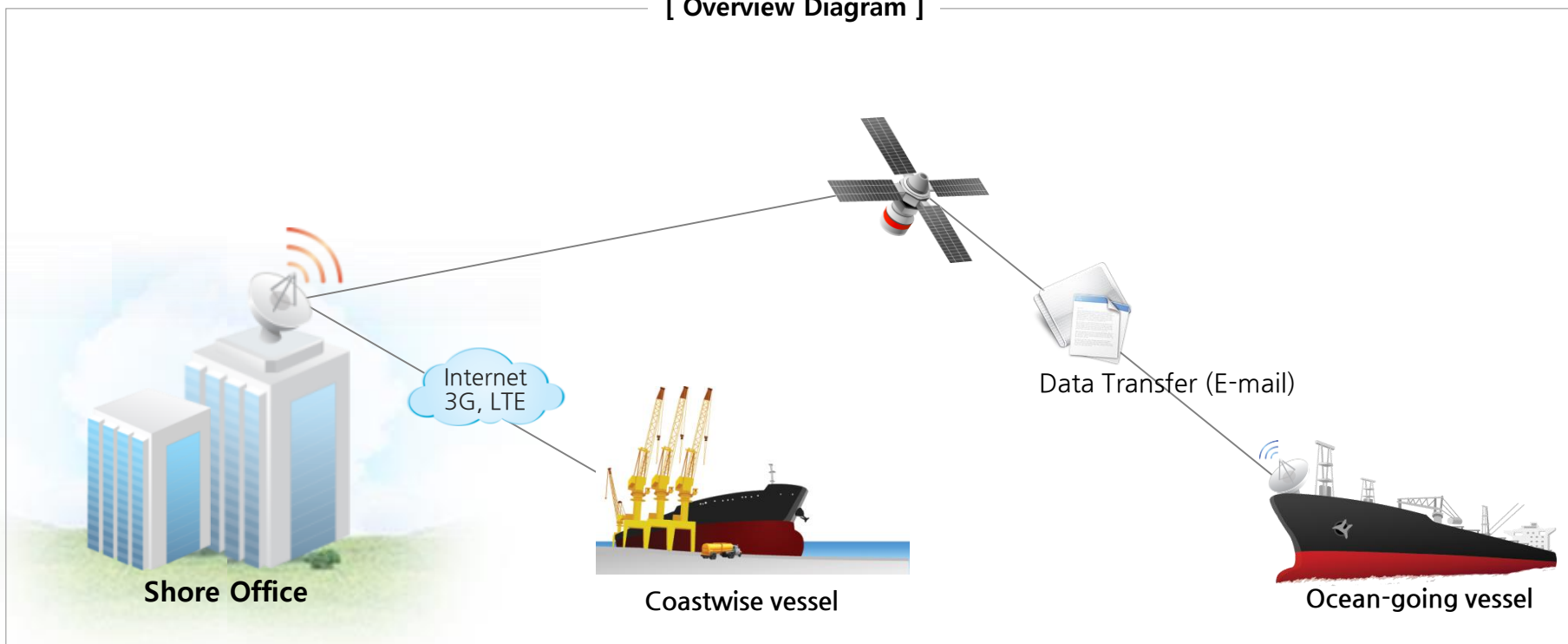
MarineOffice – Integrated solution for vessel management

! Business computerization & Efficient communication between ship and shore

Support Groupware and basic information management like PMS(Planned Maintenance System), Repair, Purchase & Supply, Audit & Inspection, Inventory, Budget, Electronic manuals, Safety & Quality including digital report forms.

! Provides essential features with quick & easy interface

As a specialized system for small-mid sized ship management companies, Marine Office's performance gives you powerful insights that enable you to save both money and the environment.

"**Increase Efficiency & Competitiveness**"

Marine Office

| Improved Efficiency | Strengthen Safety & Quality control | Standard Information | Reduce Cost |

! Standardized System Operation & Securing Economical Efficiency

Expectations from introducing Marine Office

Qualitative Benefits

- Low cost & High efficiency
- Improve customer satisfaction
- Strengthen competitiveness

Marine Office Vessel manage

Quantitative Benefits

- Prevent work missing
- Decrease audit NC rate & ship accident rate
- Reduce communication costs in ship & shore
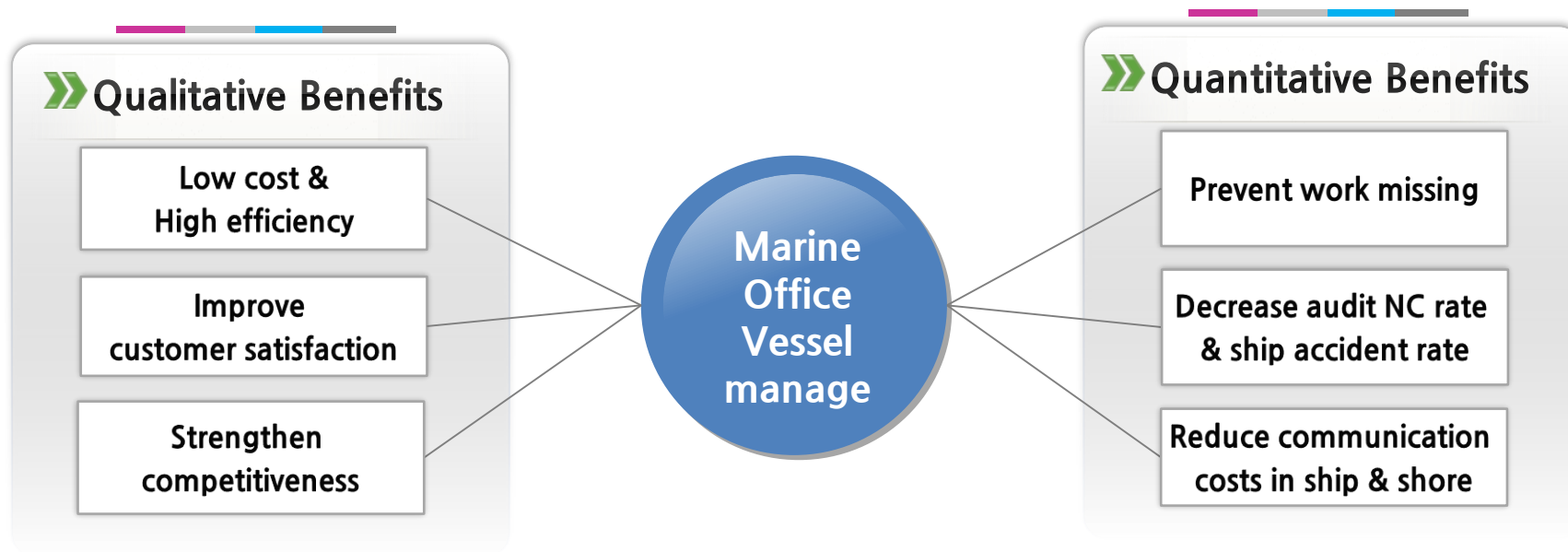
Customers using Marine Office

! We are preparing various promotions for ship operating agencies.

Our success depends on the success of our customers. Actively listening to our customers and truly understanding their needs, and then translating these needs into successful solution is central to achieving our goals.

10 Companies, 60 Ships are using Marine Office since 2013.

Our Customers

KT submarine
Cable Ship RESPONDER is a cable laying & multi-role offshore construction vessel, and has an extensive global track record for both telecom and power cable installation. Marine Office manages monthly, weekly maintenance plan and periodic inspections.

HANA Marine
Hana Marine has been specializing in transporting petrochemical products from Korea to Japan, China, Taiwan and Southeast Asia. With Marine Office, Hana marine improves data quality and has a good foundation for making the right decisions at all levels in the organization.

FAIR shipmanagement
Fair shipmananagement provides various quality services such as ship class survey, ship repairing & supervising, crew manning, ISM & ISPS management and ship's spare parts supply. Currently Fair shipmananagement manages 20 ships with Marine Office which designed to optimize and customize the system to establish a digital management system.
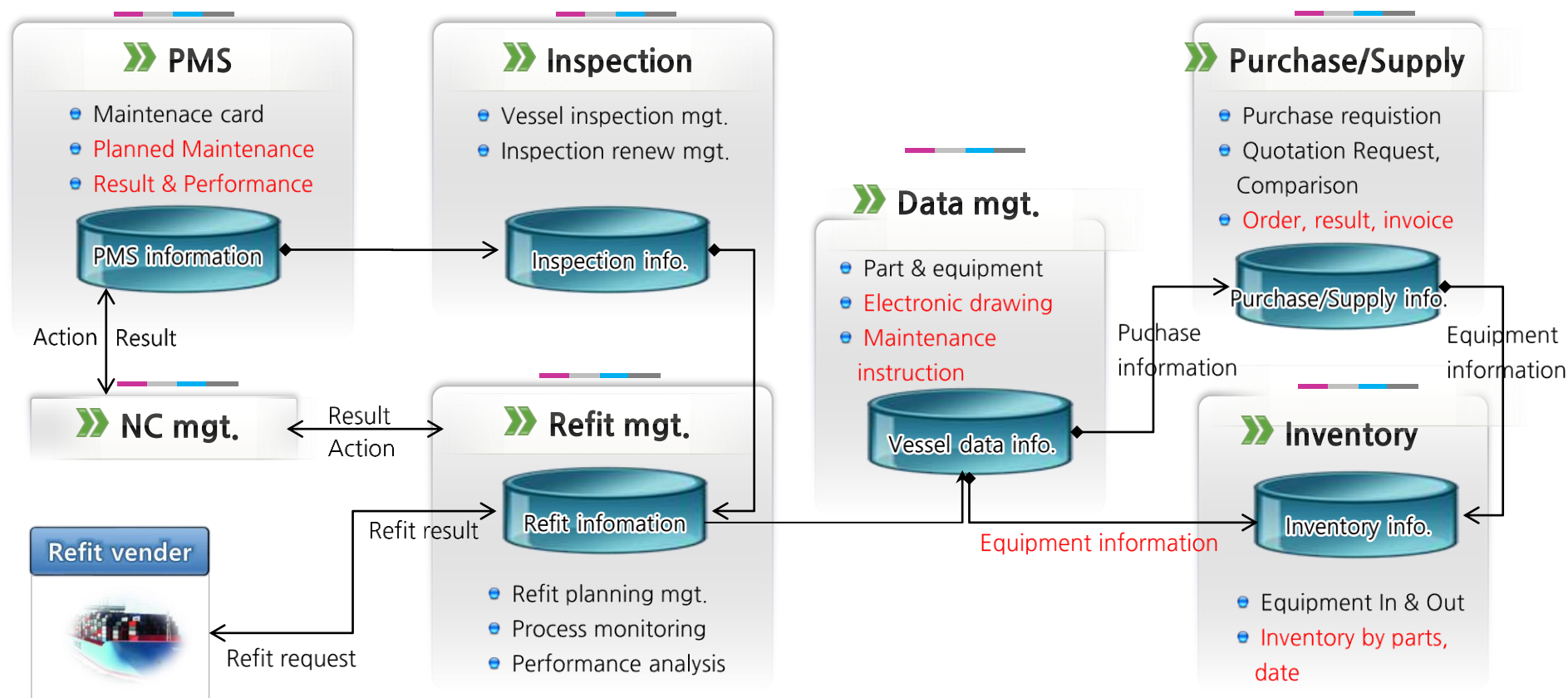
WOORIM shipping/ DONGKUK marine
PMS items are managed systematically and safely by applying Marine Offices to Oil & Chemical and LPG vessels. Marine Office increase productivity with scheduling system through job planning and performance management. PMS, electronic document management, and other business processes are integrated and realized e-business environment by Marine Office.

MarineOffice – Solution for effective vessel management

! Organic Workflow for Systematic Ship Management

Marine Office considers the relation of ship management duties, which support the exact maintenance time and standard instruction of the equipment. You will gain full insight into your vessel performance at a glance for increased transparaency of your operation with one click.


PMS
- Maintenace card
- Planned Maintenance
- Result & Performance

PMS information

Inspection
- Vessel inspection mgt.
- Inspection renew mgt.

Inspection info.

Data mgt.
- Part & equipment
- Electronic drawing
- Maintenance instruction

Vessel data info.

Purchase/Supply
- Purchase requistion
- Quotation Request, Comparison
- Order, result, invoice

Purchase/Supply info.

Action | Result

NC mgt.

Result / Action

Refit mgt.
- Refit planning mgt.
- Process monitoring
- Performance analysis

Refit infomation

Refit result

Refit vender

Refit request

Puchase information

Equipment information

Inventory
- Equipment In & Out
- Inventory by parts, date

Inventory info.

Equipment information

Marine Office PMS(Planned Maintenance System)

! Support device-specific categories to manage critical equipment separately

PMS(Planned Maintenance System)

Marine Office's PMS is, easy to use, designed for marine engineers and operation managers to cost effectively manage their vessel maintenance tasks. Specially, it can prevent missing maintenance list by informing the over due and PMS card information of the equipment with the alarm system in advance.
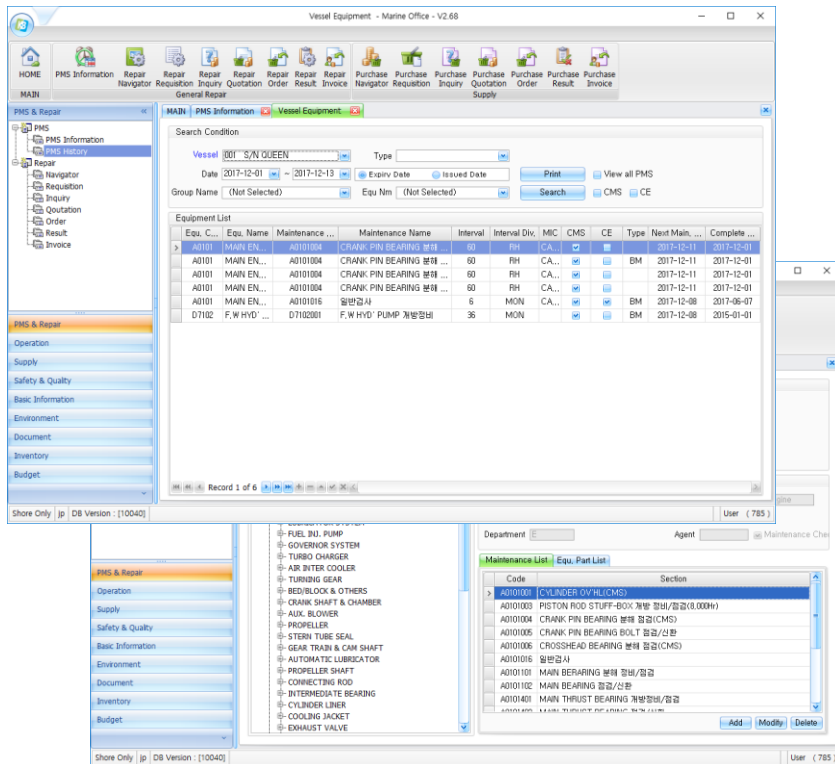
Master Card Mgt.

- PMS master card management
- Card Search & List by equipment,
  PMS Card enactment/amendment,
  PMS history, Applied vessel list,
  Vessel card transfer/notification,
  Card distribution
- Vessel PMS card mgt.
- Card Search & List,
  PMS Card modification,
  PMS Card distribution
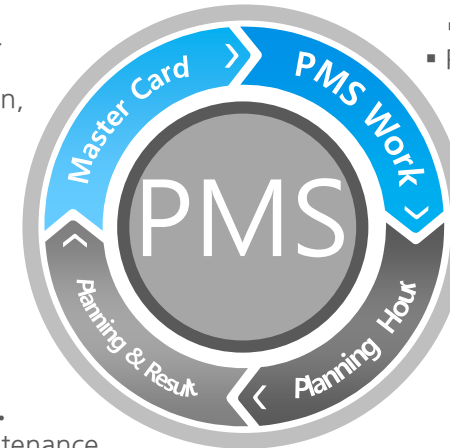
PMS Work Space

- PMS Card information
- Working Comment mgt.
- Maintenance Guide
- Assign Entry & History
- Over Due Reason
  Enter & History
- PMS Working Result Entry
- PMS Working Result History
- Performance by card

Running & Result.

- PMS Planning maintenance
- PMS Result
- PMS Working History
- Performance Analysis

Running Hour Mgt.
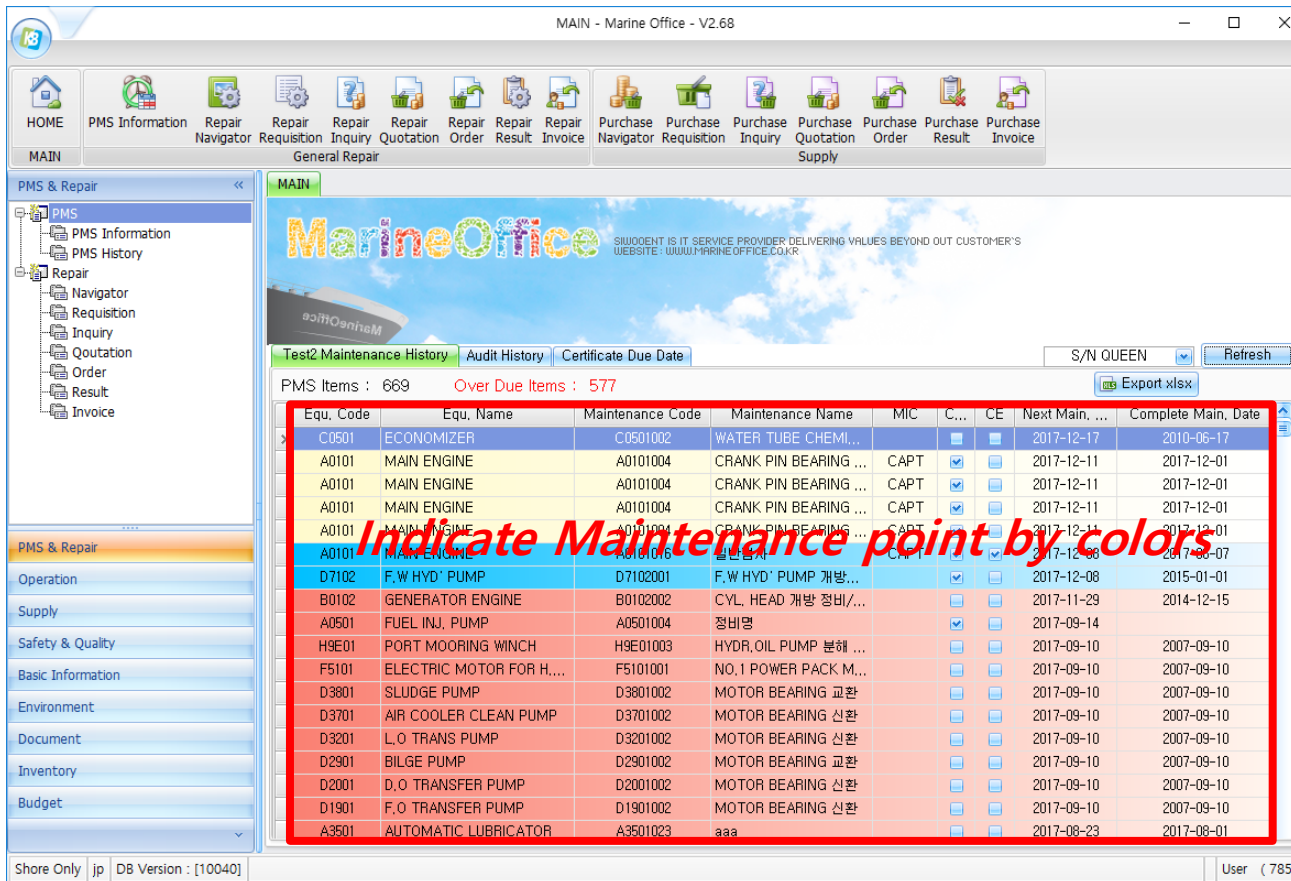
- Search &List
- R/H register/edit
- Due Date Calculation

Marine Office PMS(Planned Maintenance System)

! Provides timely maintenance notification on the first screen without inquiry.

First screen configuration

On the first screen, users will check the maintenance list today and support the maintenance work. In addition, the deadline for audit, inspection, and certificate can be viewed with one click. Marine Office enables users to plan, monitor, record and implement complex maintenance tasks, including compliance reporting and predictive maintenance monitoring.

Visible presentation of maintenance
- Red : Equipment overdue maintenance
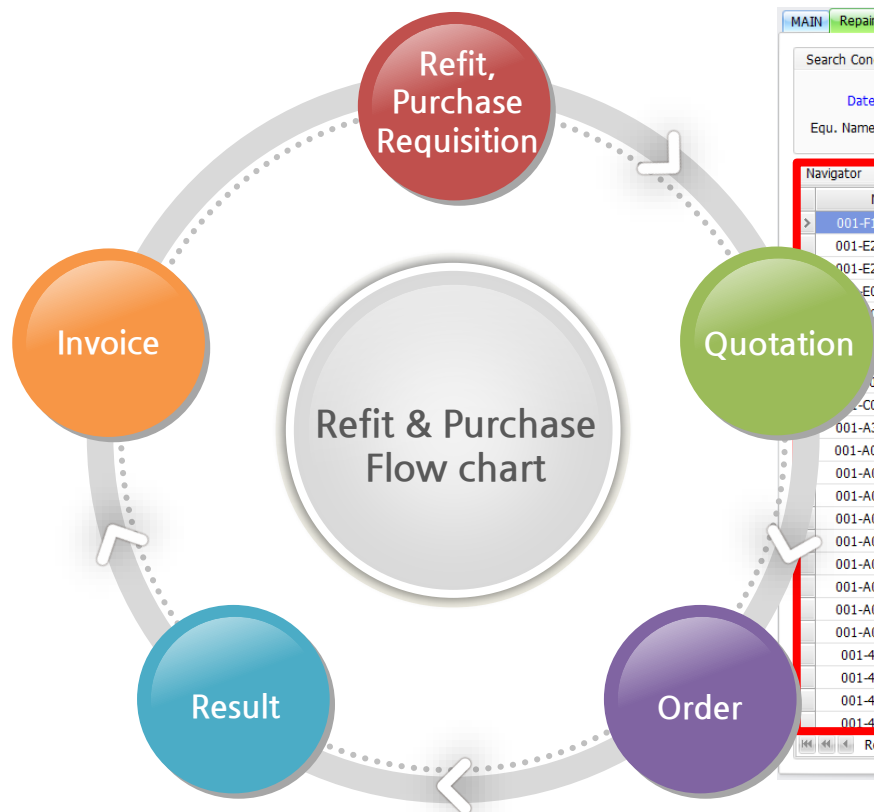- Blue : 7 days before maintenance
- Yellow : On the day of maintenance

Marine Office PMS(Planned Maintenance System)

! Refit and purchase history at a glance.

Refit & Supply System

A system for purchasing, order and supplier management that is a centralized purchasing tool for the entire vessel, designed to enable efficiency throughout the process from requisition through to invoice.

Overseeing the procurement process for all vessels and Maintaining an adequate level of spare parts through summary reports.

Refit & Purchase Flow chart

- Refit, Purchase Requisition
- Quotation
- Order
- Result
- Invoice

Inquiry about Refit, Purchase, Quotation, Order, Result, Invoice

Marine Office PMS(Planned Maintenance System)

! Powerful navigation for refit and purchase of equipment ,oils and consumables.

Refit & Supply navigation
Allows attaching documents to requisitions and strong search and sort capabilities.
Filtering and reporting with the option of exporting to different formats. (pdf, xls, jpg etc)

Marine Office PMS(Planned Maintenance System)

! Supports low-volume, fast & easy synchronization between ship and shore.

MarineOffice Syncronization System - Sync Marine

For secure data synchronization between ship and shore, there are two types of direct transmission and remote **e-mail transmission.**

[Overview Diagram]

[Ship]
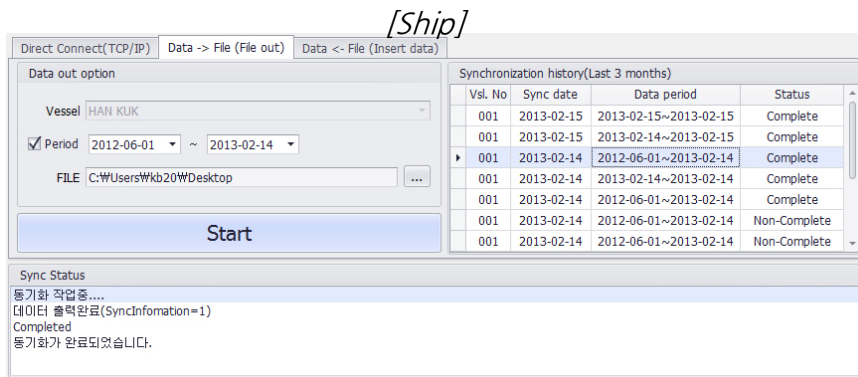
* Avg. transmission amt. : 500kb
(Separated when uploading image file)

1. Generate syncronozation compression data file

[Shore]

001_L_2013-02-14

3. Double-click the file after download

2. Sent by E-mail
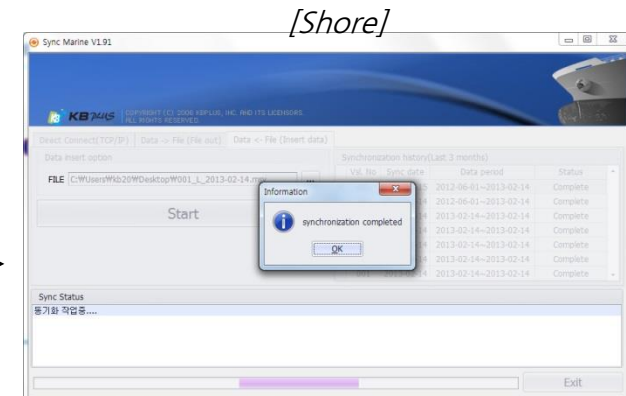
Marine Office PMS(Planned Maintenance System)

! Provides a chart of performance against budget that enable to report to ship owner

Budget management support to report performance of ship management

The Budget application is a cost control system designed to fully cover the process ranging from budget estimation to continuous supervision of expenses occurring.

Performance compared to budget

Marine Office PMS(Planned Maintenance System)

! Automatically managed complex document numbering

Document number management

Build an efficient document management system numbering automatically in document of requisition, order, result by specifying the document number format according to regulations of each ship company.

Marine Office PMS(Planned Maintenance System)

! Easy to input basic data at initial introduction

Convenient initial data entry (Gathering)

Supports data entry through sample data in the pre-treatment post-processing type to help inputting vessel's information of old ship or initially transferred.

PMS list

Ship's equipment list

Equipment list

[Offering PMS list, Ship's Equipment list, Basic information code]

Marine Office PMS(Planned Maintenance System)

! Contributes towards improved maintenance on the vessel increasing efficiency by avoiding downtime and preventing parts malfunction.

JOBS	Category	Function
PMS (Planned Maintenance System)	**PMS maintenence**	PMS Information
		PMS History
		RH List
	Refit management	Refit Information
		Refit Requisition
		Request Quotation
		Quotation
		Refit Order
		Request Payment (Invoice)
		Refit Result Report
	Purchase management	Purchase Information
		Purchase Requisition Status(SPARE, STORE-Engine/Deck, F.O, L.O)
		Request Quotation
		Quotation
		Purchase Order
		Result Report(Inventory Synchronization)
		Appoval Requisition(Company's own form)
	Inventory management	Inventory status(SPARE, STORE-Deck/Engine, F.O, L.O)
		Supply/Consumption Status(SPARE, STORE-Deck/Engine, F.O, L.O, History)
		Consumption amount/Adjust quantity(INVENTORY Synchronization)

Marine Office PMS(Planned Maintenance System)

! A complete tool for keeping control of the vessel's maintenance, both planned and unplanned

JOBS	Category	Function
Vessel Information Management	Vessel Information	Vessel Basic Information
		Common Equipment Information
		Ship's Equipment Information
	Material Information	Parts Information
		Consumable Information(Engine/Deck)
		Fuel Information
		Lubricant Information
	Electronic Document	Electronic Manual Information
Report	Work History Information	Document History
	Regular Report	Regural Report Category
		Regural Report Status

Marine Office PMS(Planned Maintenance System)

! Systematical and stable ship management that maintains plan and periodic inspections

JOBS	Category	Function
Basic Information Management	Crew Information	Crew information
		Aboard/Leaving information
		Crew Education information
	Employee Information	Employee information
	Vender Information	Vender list
	Budget Inforamtion	Budget Category
		Budget Exchange
		Budget Status
		Budget Used List
		Budget Report
Environment	Administrator Information	Setting Password
		Setting Authority
		Setting Company Information
		Setting Document Number
	Port Connect Information	Connecting Information
Report	Work History Report	Document History
	Regular Report	Regural Report Category
		Regural Report Status

Groupware

! Support electronic approval system and electronic document management between ship & shore, crew & employee

Groupware
Making documents (HTML format document possible) / Approval-Reject-Holding/ Approval between department / Circuration/ Reference / Approval phase management/ Security level management (View documents by authorization while delegation) / Support approval while absent /Send vessel's official document/ Electronic signature
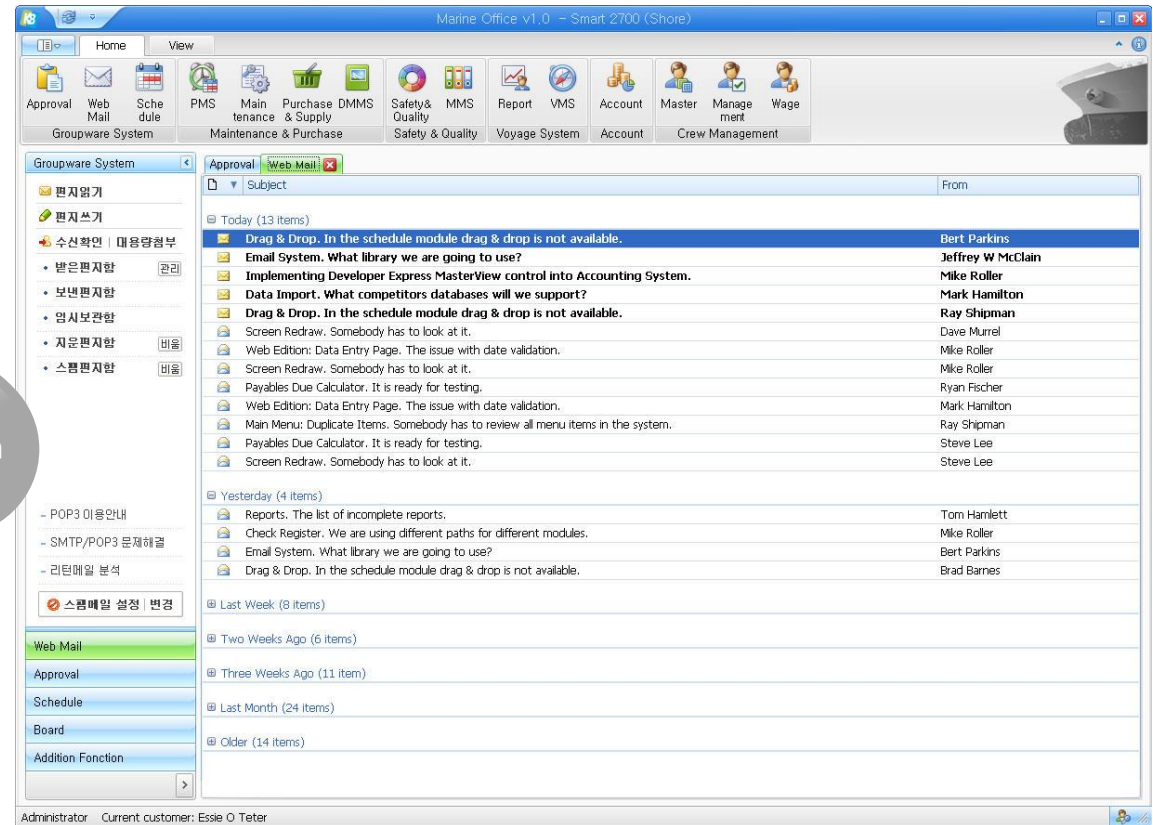
Groupware

! Supports quick decision-making through electronic documentation of drafting, approval processing, approval and management than traditional paper documents.

JOBS	ITEMS		
Electronic Approval	Electronic Approval	Drafting	Waiting for drafting
		Approval	Waiting for approval
			Approval in progress
		Display	Display complete
		Sending	Sending in progress
		Receipt	Waiting for reception
		Personal documents	Completed documents
	Document	Book	Record register book
		Unit work, Record files management	Unit work code
			Record files
	Organization chart	Members - Lower menu by department		
		Absentee - Lower menu by department		
		Organization chart management	Department management
			Users management -Lower menu by department
			Position management

Safety & Quality management system

! Manages certificates and reports systematically to manage the safety & quality of the ship.

Safety & Quality management system

Marine Office enables to manage various reports and certificates to prevent ship accident and to analysis corrective action for vessel's safety & quality.

High Risk
- Performance Comparison
- Cause Analysis

NC mgt.
- NC identification
- NC corrective action
- Confirmation

Accident
- Accident, Quasi-accident report
- Statistics,Transition
- Classification

Safety&Quality Mgt. System

PSC/FSC
- PSC/FSC Report
- PSC/FSC Deficiency
- Statistics,Transition

Audit Inspection
- Audit Schedule
- Audit management
- Audit Report
- Report Search

Safety & Quality management system

! Manages audit & inspection NC analysis

NC(Nonconformity) Cause Analysis
Provides with advance measures about audit & inspection and various report forms that analyzes the cases of NC by causes and year.
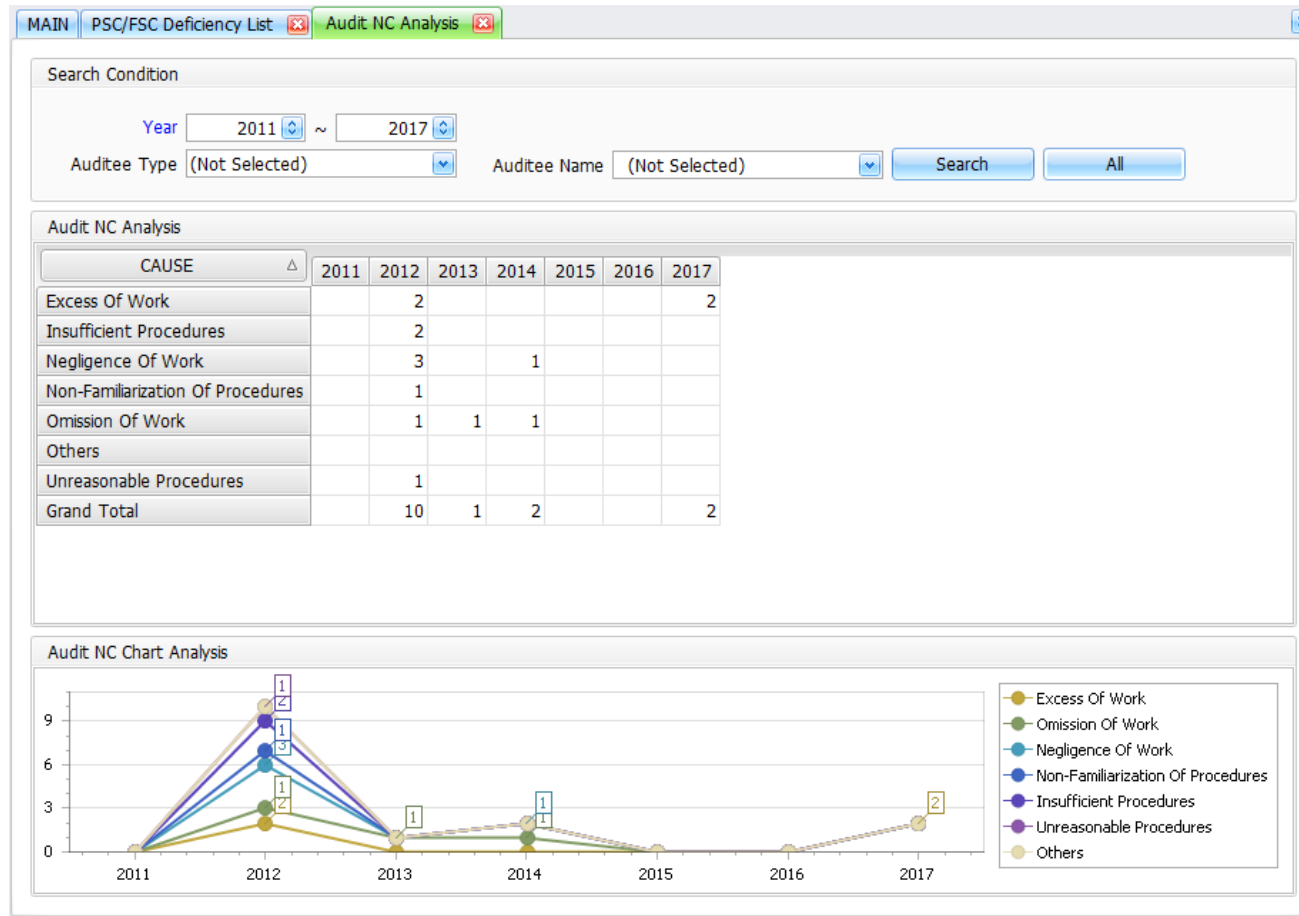
Safety & Quality management system

! Manages yearly audit & inspection schedule

Audit & Inspection Schedule Management

Provides yearly schedule management function for ship's audition & inspection about audit type, month and status.

Safety & Quality management system

! Manages vessel's PSC/FSC report & result

PSC & FSC Inspection Management
Provides PSC(Port State Control) & FSC(Flag State Control) inspection information about country, port and deficiency result.

MAIN	PSC/FSC Report List

Search Condition

Vessel	(Not Selected)		Print
Kind	PSC	Result No Deficiency	Search	All

PSC/FSC Report

Add | Modify | Delete

	PSC/FSC No.	Vessel	Kind	Inspection Date	Country	Port	Inspector	Result
>	001-201308-001-L	S/N QUEEN	PSC	2013-08-10	Country	DAESAN	Inspector	No Deficiency
	001-201403-001-L	S/N QUEEN	PSC	2014-03-24	111	BUSAN	111	No Deficiency
	001-201411-001-L	S/N QUEEN	PSC	2014-11-15	Japan	TOKUYAMA	Kim	No Deficiency
	001-201411-002-L	S/N QUEEN	PSC	2014-11-14	Japan	KAWASAKI	Kim	Deficiency

Record 1 of 4

Safety & Quality management system

! Manages systematically Certificates, Audit/Inspection information not paper documents

marine safety & quality management system
helps to reduce the administrative burden of relevant shipping industry regulations.
At the same time, it supports you regarding compliance with those rules and regulations.
And improves information flows and monitoring of actions when processing incidents/accidents

JOBS	Category	Function
AUDIT/INSPECTION, CERTIFICATE management (Safety & Quality mgt.)	CERTIFICATES	Common Certificate Information
		Vessel Certificate Information
		Vessel Certificate Audit Information
		Vessel Certificate Inspection Information
		Vessel Certificate Expiration Status
	PSC/FSC/CLASS	PSC/FSC/CLASS Report
		PSC/FSC/CLASS Deficiency Report
		PSC/FSC/CLASS Deficiency Analysis Report

Voyage & Operation management

! Easy reporting of position, status onboard and fuel consumption

Accurate Voyage Reporting

Make quality shipping with high accuracy reporting and vessel's routes, positions presented on a map. Analysis the opreation report(Departure, noon, arrival)) to maximize the efficiency using data from voyage analysis(operation performance analysis, fuel consumption analysis, running hour analysis).
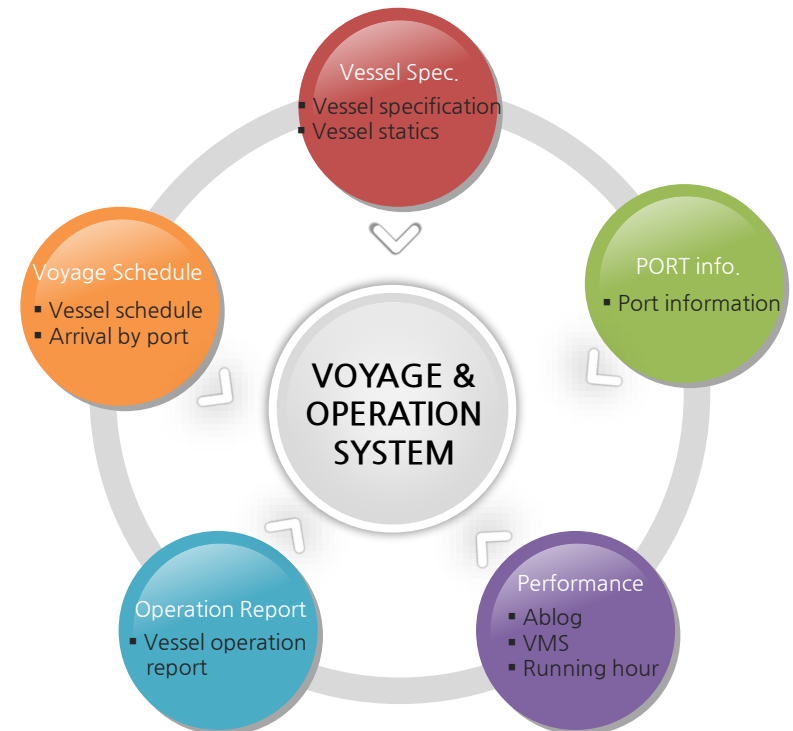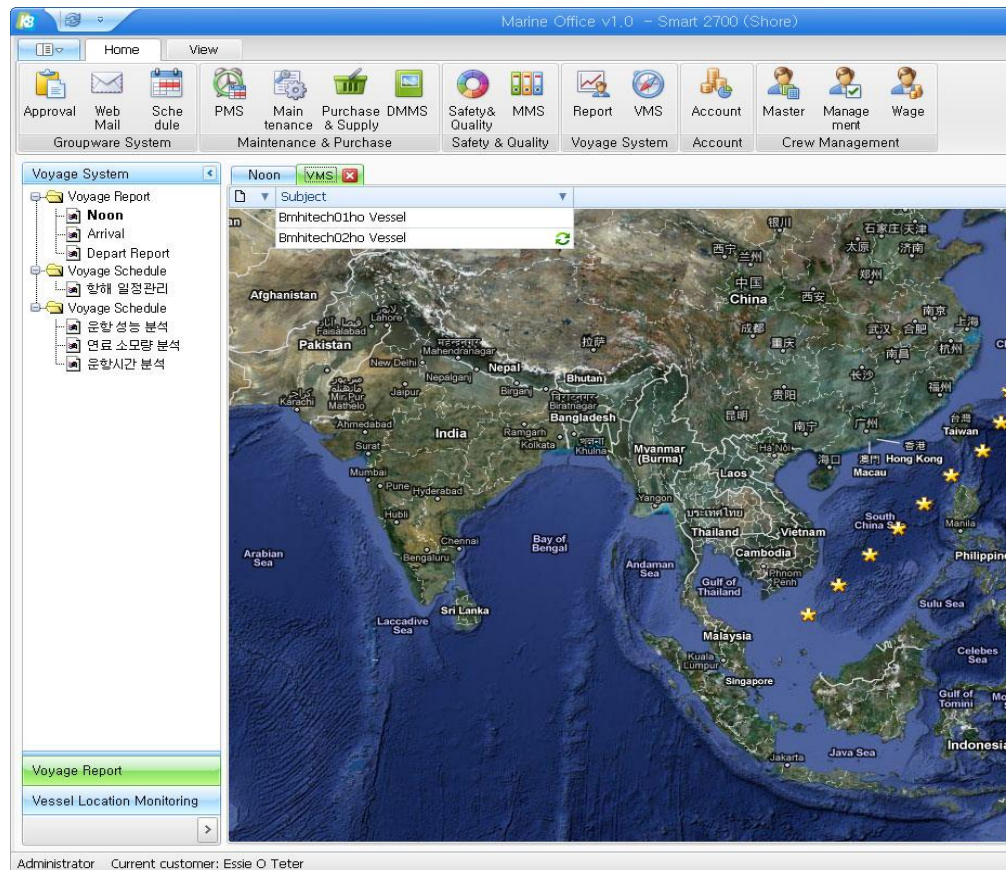
Voyage & Operation management

! Reporting with position, sailed distance, speed, FO/DO consumption

Arrival Report

Manages the arrival report when arriving the ship to the port about time info, draft info, distance info, oil consumption, ROB, speed etc and able to print in report form.

Voyage & Operation management

! Reporting with position, sailed distance, speed, FO/DO consumption

Departure Report
Manages the departure report when depart the ship from the port about time info, draft info, distance info, oil consumption, ROB, speed etc and able to print in report form.

Voyage & Operation management

! Reporting with position, sailed distance, speed, FO/DO consumption

Noon Report
Manages the noon report about port info, navigation info, oil consumption, ROB etc and able to print in report form that exporting to various formats (pdf, xls, html, csv, text, image etc)

Voyage & Operation management

! Reports enable improvements in vessel performance.

Ablog
Provides ship's abstract log report that presents vessel's navigation, fuel oil consumption, machinery running hours etc.

Voyage & Operation management

! Manages various reports that occur at the port of arrival and departure and during navigation.

Realize digital vessel

As the most important technology of digital ship, Marine Office is safe navigation management system that integrates the entire system to track the actual operation of the ship and monitors and controls the system remotely.

JOBS	FUNCTION
VOYAGE & OPERATION	Operation Report List
	Departure Report
	Arrival Report
	Noon Report
	Abstract Log Report
	VMS
	Protest Report

History

+ Company Brief

+ Main History

+ Certificates & Registrations

+ Developed Solutions

+ Business Areas

Main History of SIWOO E&T

! We have been developing software for business computerization for more than 14 years

Business Vision

Analyze enterprise value and value developing service based on experience in various industrial fields
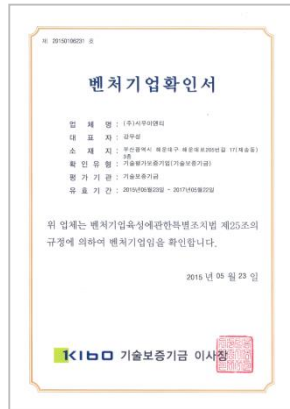
Business Information

- Company Name : **Siwoo E&T co.,ltd**
- Established : 2004.06
- CEO : Mr. Musung KANG
- Address:
- Tel : +82-51-783-0824
- Fax : +82-51-783-0825
- Easypanme : www.easypanme.co.kr
- Marine Office : www.marineoffice.co.kr
- Digital Signage : www.sdsignage.co.kr

- 2004.06: Established corporation
- 2004.11: Develop Easypanme
- 2007.01: Computer addiction prevent solution(Banditburi)
- 2008.07: Customized groupware development
- 2009.01: Elec. Approval Solution, WebPOS
- 2010.03: Asset Management Solution(Bizasset)
- 2012.03: Hwamiju Integrated Computing system
- 2012.12: Marine Office vessel PMS solution
- 2013.04: Venture company, Social company registerd.
- 2014.05: Digital Signage solution(Smart DS)
- 2015.06: Registered as a innovation company(INNO BIZ)
- 2016.08: Cetificated NKclass in Japan (PMS)

Siwoo E&T co.,ltd

! We seek to achieve technology-intensive company.

Siwoo E&T is an Innovative company and Venture company having multuful software registrations and patents certification since 2004.
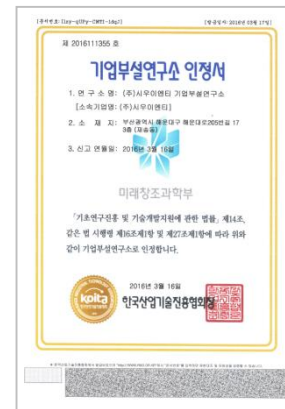

〈INNOBIZ cert.〉
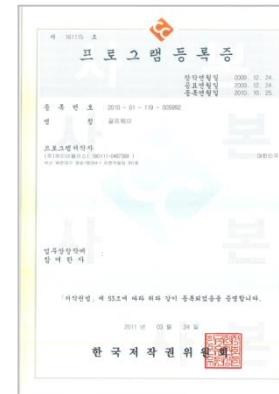
〈Venture Company〉

〈Software Development confir.〉

〈Resaerch Institude rec.〉

〈Trademark registration cert.〉

〈Trademark registration cert.〉

〈 Patent certificate〉

〈 Program Registration〉
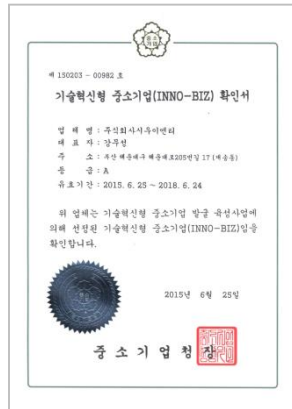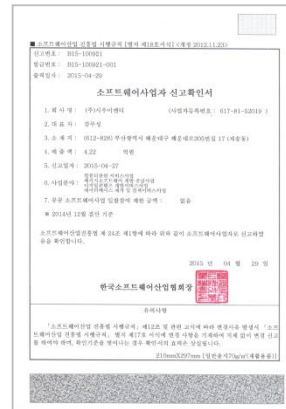
Main Solutions

! Marine Office - ERP system for vessel management.

Marine Office is integrated IT solution that support ship-shore-vender communication in PMS, inventory, procurement, budget, quality & safety and voyage for improved decision-making and efficiency of operations.
It acquires NKClass certifications for PMS management in Japan and GS(Good Software) certification as a quality software.
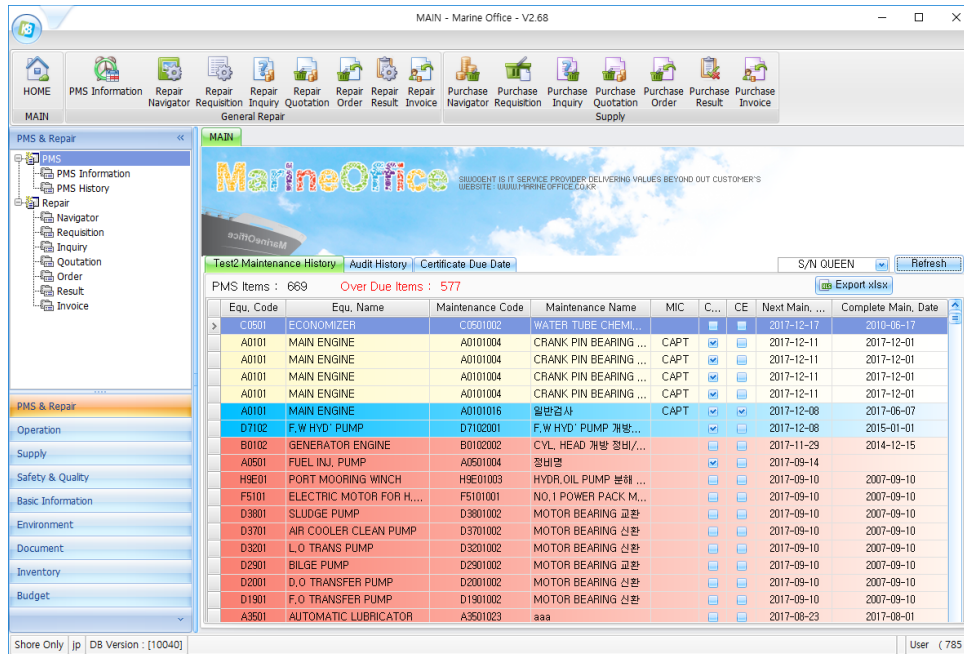
Japan NKClass cert.
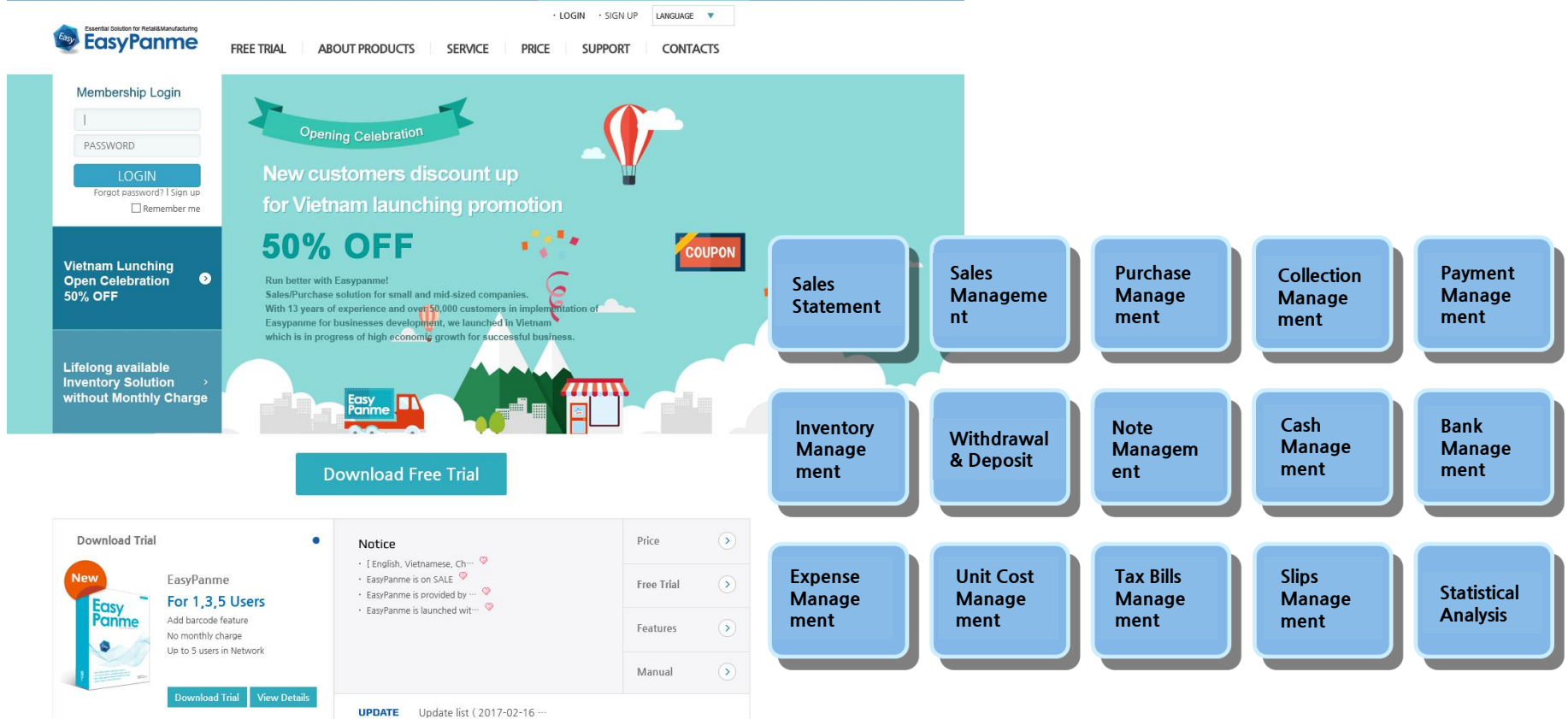
GS(Good Software) cert.

! Easypanme - Essential Solution for Retail & Manufacturing

EasyPanme is a sales/ inventory management software that can be easy for anyone, which organizes the general information for small and medium-sized business.
It takes advantage of the convenience of essential functions, such as tax bills, trading statements issue. Especially, EasyPanme is suitable for wholesale & retail, developed based on years of know-how and multiful experiences in the relevant field.

Over 50,000 are using Easypanme since 2004

Sales Statement	Sales Management	Purchase Management	Collection Management	Payment Management
Inventory Management	Withdrawal & Deposit	Note Management	Cash Management	Bank Management
Expense Management	Unit Cost Management	Tax Bills Management	Slips Management	Statistical Analysis

Main Solutions

! BizProbe Web 1.0 - Integrated ERP system for franchise business

BizProbe is Store management solution that performing customer management and revenue management.
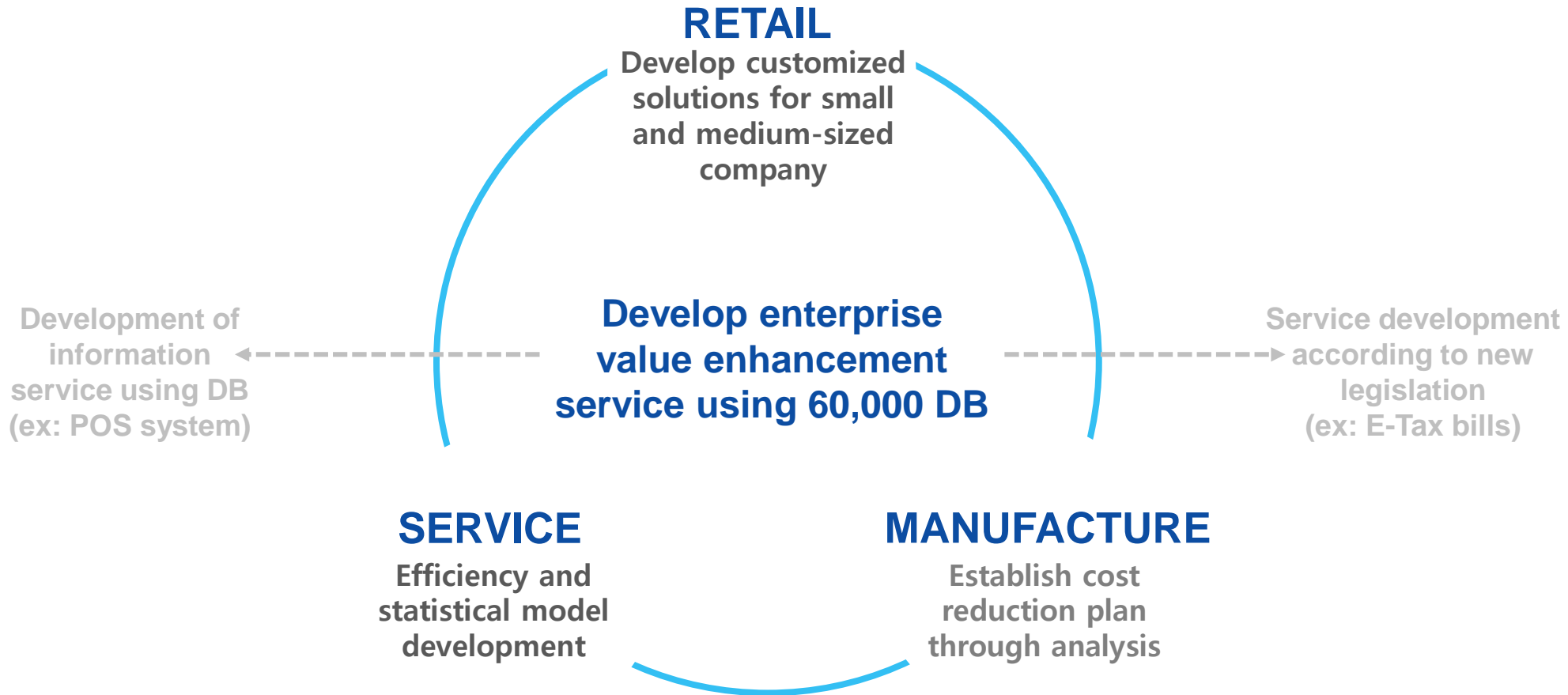
40 shops are using Bizprobe since 2012

Business Area Analysis

! We are trying to develop new business opportunities based on our customer DB.

RETAIL
Develop customized solutions for small and medium-sized company

Development of information service using DB (ex: POS system)

Develop enterprise value enhancement service using 60,000 DB

Service development according to new legislation (ex: E-Tax bills)

SERVICE
Efficiency and statistical model development

MANUFACTURE
Establish cost reduction plan through analysis

Thank you.