

Vessel Communication Network Infrastructure

Scenario: Shipyard / Port / Anchorage / Open Seas

Provide Comprehensive Vessel Communication Solutions:

◆ Customizing vessel communication solutions based on vessel types and routes

- LAN(Wired/Wireless)
- LAN+4G/5G
- LAN+VSAT/Starlink
- VSAT/Starlink-4G/5G Seamless Switch



◆ Solving communication pain points in multiple scenarios-bad signal, high cost of communication

Ship

- Fixed Wireless Network in E/R
- Portable Embarkation Wireless Network
- Wired AP WiFi Coverage Solutions for E/R



Shipyard/Port/Anchorage

- BLOS Network Transmission Solutions
- VSAT+4G/5G Automatic Switching



Open Seas

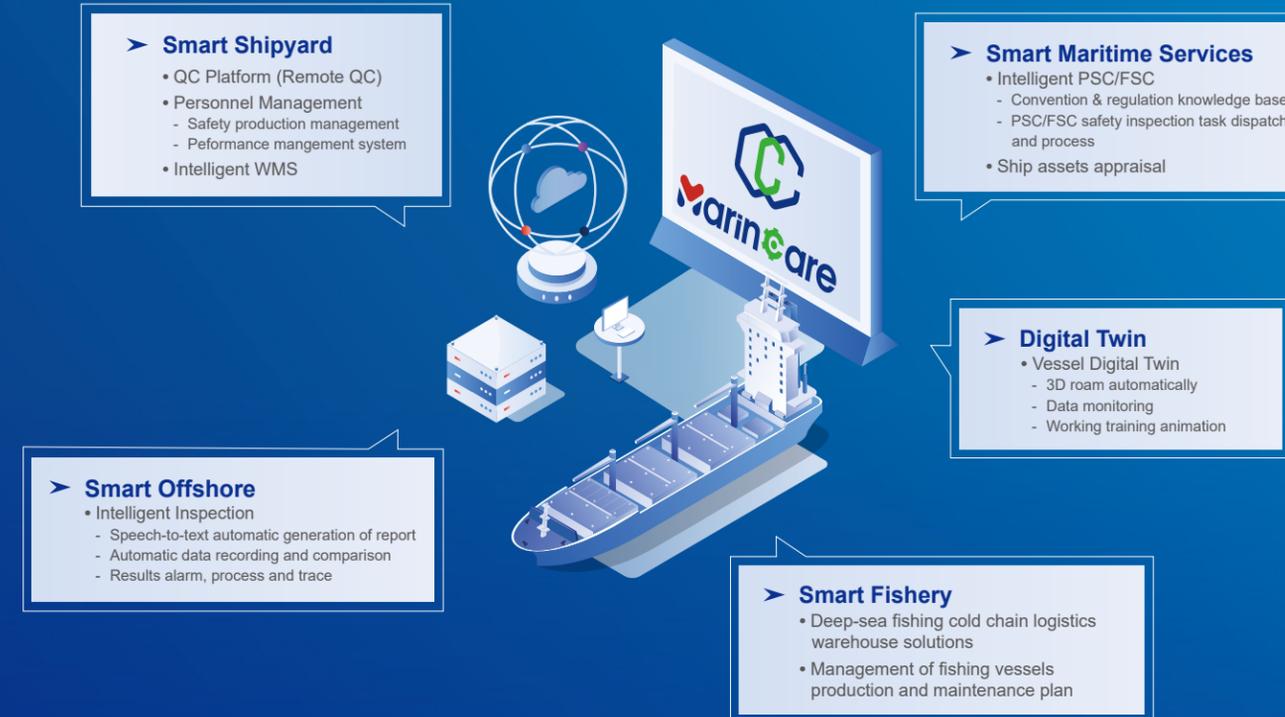
- High-throughput VSAT Solutions
- High-speed VSAT Solutions



Digitalization and Intelligent Solutions

Typical Solutions in the Maritime Industry

We provide customized technical solutions and digital empowerment construction plans based on your need



WinKong Marine Engineering Co., Ltd.

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MARINCARE

Ship Digitalization Products & Solutions

- ✓ D-VesselKeeper Integrated Ship Management Platform
- ✓ SmartEye
- ✓ Marine Knowledge Base
- ✓ Vessel Communication Network Infrastructure
- ✓ Digitalization and Intelligent Solutions



Digital Connectivity for Easier Services

WinKong Marine Engineering Co., Ltd.

D-VesselKeeper Integrated Ship Management Platform

Your Fleets Operation Keeper



Functions



PHM

- Torsional Vibration Monitoring and Analysis
- Vibration Data Monitoring & Analysis
- Maintenance Suggestion
- Equipment Potential Risk Detection

Advantages

- Approval by NK
- 20 years marine engineering experience
- 48 fault diagnosis algorithms
- 200+ experts and engineers

EEM

- CII & EEOI Management
- Fuel Consumption Monitoring
- Energy Efficiency Monitoring and Prediction

Advantages

- Approval by NK
- Data acquired automatically, accurate and credible
- Connected automatically with DNV OVD for verification, generate DCS and MRV reports, providing data support for owner's EU ETS and FuelEU
- Continuous energy efficiency optimization suggestions

PMS

- Basic Info of Equipment
- Upload Technical E-Manuals
- PMS List Can be Executed on App

Advantages

- Approval by CCS
- Automatically read the equipment's operating hours
- PMS list pre-set by WINKONG Marine

Why D-VesselKeeper?

- 1. Boss Dashboard:** Fleets/vessel information visualization overview and analysis, improve management efficiency for decision makers.
- 2. Digitalization Platform:** Data acquired automatically, analysis by AI algorithm, support mobile devices. Beyond a traditional information ERP software.
- 3. Database Set-up Service:** Product delivery by a team of market, product design, R&D, experts, for a full-time companion service.
- 4. Data Assurance:** Safe (D-INF certified), Standardization (based on ISO19848), Credible (automatic collection).
- 5. Fleet Management:** Offers online technical support and one-click requisition of onboard service, to help management costs reduce.

SmartEye

Empower Your Field Work with Seamless Tech Assistance

Functions



Remote Expert

- Onshore and Offshore Interconnection
- Real-time Assistance
- Intelligent Remark
- Files Push and Screen Sharing



D-Report

- Customize Multiple Format Report Templates
- On-site Voice Generated Report, Capable of Taking Photos and Videos



Digital Procedure

- Ship FSC/PSC Safety Inspection System
- Shipyard Quality Inspection System
- Customized Inspection System



D-Knowledge

- Convention & Regulations Knowledge Base
- Digital Instruction Manual
- Marine EnginePro



Video Monitoring System

- Portable Camera
- Endoscope
- CCTV

Advantages



01 Supporting multiple source inputs such as PTZ cameras, endoscopes, etc.



02 Compatible with mobile phones, PC, head-wear AR tablet and other mobile terminals.



03 Supporting customization and private deployment.



04 Integrating AI in security identification.



Marine Knowledge Base

Sailing through Knowledge

D-Convention

- IMO conventions
- Class societies regulations
- PSC/FSC polices

D-Manual

- Customized fleets technical structural information
- Trouble-shooting cases and accident cases
- Makers technical documents including equipment instructions and newsletter

EnginePro

- Marine industry unique large language model
- Intelligent Q&A for regular and technical questions for diesel engines

8,000+
Service Cases

120,000+
Drawings

6,000+
Maritime Regulations

1TB
Maritime Knowledge

- - Implement content retrieval, extraction, and viewing of relevant technical contents.
- - Over 10,000 M/E manuals covering more than 400 engine types from 20+ renowned makers such as MAN B&W, Wartsila & SULZER, DAIHATSU, HYUNDAI HIMSEN, KOBE DIESEL, TAIYO and WinGD.
- - Extensive coverage of maritime regulations from class societies such as CCS, DNV, and ABS, as well as PSC checking polices from USCG, Rightship, and SIRE.
- - 4,000+ newsletter from over 20 main makers.