

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



Opea 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

► Smart Shipyard

- QC Platform (Remote QC)
- Personnel Management
 - Safety production management
 - Performance management system
- Intelligent WMS

► Smart Maritime Services

- Intelligent PSC/FSC
 - Convention & regulation knowledge base
 - PSC/FSC safety inspection task dispatch and process
- Ship assets appraisal

► Digital Twin

- Vessel Digital Twin
 - 3D roam automatically
 - Data monitoring
 - Working training animation

► Smart Offshore

- Intelligent Inspection
 - Speech-to-text automatic generation of report
 - Automatic data recording and comparison
 - Results alarm, process and trace

► Smart Fishery

- Deep-sea fishing cold chain logistics warehouse solutions
- Management of fishing vessels production and maintenance plan



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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-Knowledge

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



D-Report

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



Video Monitoring System

- Portable Camera
- Endoscope
- CCTV



Digital Procedure

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

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.