

BEYOND FRONTIERS IN MARITIME INNOVATION



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Ship Expert Technology

shipexpertnet

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THE THAILAND'S PIONEERING IN MARITIME
INNOVATIONS & TOTAL SOLUTIONS

www.shipexpert.net

Table of CONTENTS

About us _____	2
Index _____	3
Maritime Connectivity _____	5
• Xpert Connect _____	6
Hybrid Multi-Orbit _____	7
Solutions/Business Network _____	9
• Xpert Solution _____	10
• F.R.I.D.A.Y. _____	11
• Maritime AI CCTV _____	12
• V.Secure _____	12
• Xpert Flex _____	13
Help Desk _____	15
• Xpert Help 24/7 _____	16
Consultancy _____	17
• Xpert Consultancy _____	18



ABOUT US

Ship Expert Technology is **Thailand's pioneering provider of maritime innovation and comprehensive end-to-end solutions**, setting new standards for the industry. Since our establishment in 2016, we have been at the fore front of transforming the maritime industry through cutting-edge technology, delivering seamless connectivity, optimized operational efficiency, and enhanced safety for vessels worldwide.

As a trusted innovation partner, we empower shipping companies with next-generation solutions designed to address the evolving complexities of the maritime sector. Our expertise spans advanced maritime satellite communications, intelligent fleet management, maritime IoT, cybersecurity and other solutions ensuring unparalleled efficiency and resilience in maritime operations.

Beyond delivering end-to-end solutions, we provide **worldclass installation, integration, and support services** to ensure smooth deployment and optimal performance of our technologies. Our dedicated support team offer **24/7 technical assistance, remote monitoring, and proactive maintenance**, ensuring minimal downtime and maximum reliability for our clients.

Driven by a commitment to excellence and continuous innovation, we develop world-class products and integrated solutions that redefine industry standards, enabling our clients to navigate the future with confidence.

pert
Flex 
Seamless Flexible Bandwidth
Optimization & Control

pert
Connect 
Seamless Maritime
Connectivity for the Future

pert 
Consultancy
Customized Maritime
Solutions for Your Unique Needs

pert 
Solution
Maritime Smart Solutions

pert 
Help24/7
Your Trusted Maritime
Help Desk Expert Support





BEYOND FRONTIERS
IN MARITIME INNOVATION

Powered by SHIP EXPERT TECHNOLOGY

MARITIME CONNECTIVITY

Enterprise Hybrid Maritime Communication Infrastructure (GEO/LEO/5G/LTE)
Ensuring resilient, high-availability connectivity across global maritime routes.



SEAMLESS MARITIME CONNECTIVITY FOR THE FUTURE



Xpert Connect Hybrid Maritime Connectivity Architecture (GEO + LEO Integration)
Modern maritime operations demand multi-orbit resilience and terrestrial integration.
Xpert Connect integrates infrastructures into one unified maritime backbone :

- **GEO Satellite Backbone**
Stable global coverage for deep-sea routes
- **LEO Satellite Constellations (OneWeb Integration)**
Low-latency, high-throughput performance
- **LTE / 5G Maritime Integration**
Nearshore broadband continuity
- **Regulatory**
Delivered through a regulatory-compliant service framework in accordance with Thai telecommunications law and applicable NBTC regulations.
- **Xpert Flex : SD-WAN Orchestration**
Intelligent traffic prioritization and failover

Enterprise Benefits :

Multi-orbit redundancy
by design

Automatic failover
between satellite systems

Optimized bandwidth
allocation

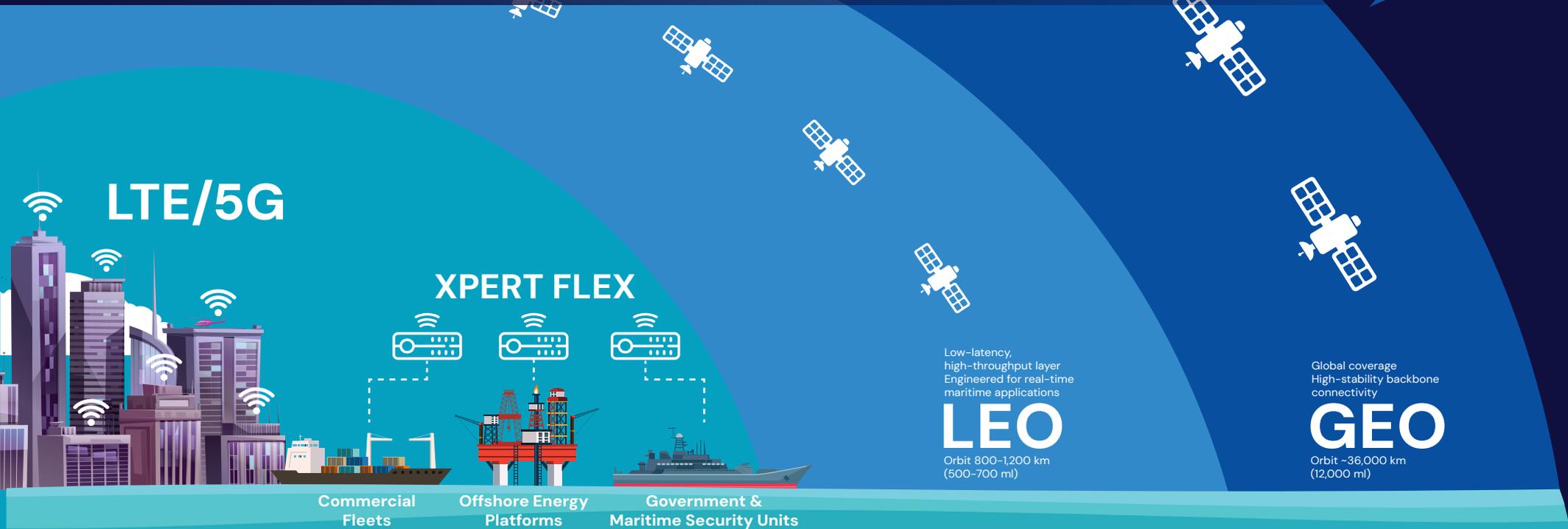
Seamless deep-sea
to coastal transition

Reduced communication
risk exposure

Multi-Orbit. Multi-Network. One Unified Maritime Backbone.

Hybrid Multi-Orbit

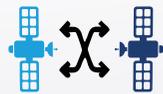
Maritime Connectivity Architecture



NETWORK INTELLIGENCE & GOVERNANCE LAYER



Multi-orbit traffic orchestration



Automatic GEO-LEO failover



LTE/5G policy-based switching



Application-level bandwidth prioritization

GEO (Geostationary Orbit)

Enterprise-Grade Maritime Backbone – VSAT Infrastructure

- Wide-beam global ocean coverage
- Stable long-haul communication
- Ideal for mission-critical operational continuity
- Optimized for deep-sea vessel routes
- High-availability Ku-band infrastructure

LEO (Low Earth Orbit)

Low-Latency Performance Layer – Integrated One Web Constellation Network

- High-throughput maritime connectivity
- Reduced latency for real-time applications
- Enhanced performance for ERP sync, AI CCTV streaming, IoT data exchange
- Seamless integration with onboard SD-WAN orchestration
- Integrated within unified hybrid architecture
- Delivered through a regulatory-compliant service framework in accordance with Thai telecommunications law.

LTE / 5G Maritime

Nearshore High-Speed Continuity Layer

- High-bandwidth coastal connectivity
- Automatic switching during port approach
- Cost-optimized bandwidth allocation
- Integrated within unified hybrid architecture

xpert Convergence

BEYOND FRONTIERS
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SOLUTIONS / BUSINESS NETWORK

Empowering the maritime industry with intelligent, end-to-end solutions that enhance connectivity, security, and operational efficiency. Our innovative business network seamlessly integrates advanced technologies to drive digital transformation at sea.



MARITIME SMART SOLUTIONS

Xpert Solution Integrated Maritime Digital Operations
Xpert Solution consolidates vessel technologies into a centralized digital environment that enhances visibility, governance, and compliance.

Core Components :



Maritime **AI CCTV**
Surveillance



F.R.I.D.A.Y.
Maritime ERP



Maritime **IoT**



Maritime **VoIP**



V.Secure
Cybersecurity & SOC



F.R.I.D.A.Y

Fleet Resource Intelligence & Digital Administration System
A purpose-built maritime enterprise platform centralizing fleet governance.

F.R.I.D.A.Y. – ClassNK Type Approved PMS Platform

F.R.I.D.A.Y. Maritime ERP System is officially granted a Type Approval Certificate by ClassNK for its Planned Maintenance System (PMS) **module**, in accordance with **Annex B9.1.3** of the **“Guidance for the Survey and Construction of Steel Ships.”**

Key Modules :

- Vessel Inventory System
- Plan Maintenance System
- Purchase System
- Electronic Document System
- Safety System
- Crew Management System

The Digital Command Center for Fleet Governance.



MARITIME AI CCTV Surveillance Systems



From passive monitoring to predictive operational intelligence.

- AI-powered anomaly detection
- Restricted zone intrusion alerts
- PPE and safety compliance monitoring
- Real-time operational risk notifications
 - Incident forensic analytics

Operational Visibility Elevated by Artificial Intelligence.



Maritime Cybersecurity and Security Operations Center (SOC)

Enterprise-grade protection for maritime digital infrastructure. V.Secure & Security Operations Center (SOC) supports compliance with IMO Cyber Risk Management and IACS UR E27 requirements by providing continuous monitoring, threat detection, incident response, and audit ready security reporting.

Type Approval by Class RINA

V.Secure has been granted IACS UR E27 Type Approval by RINA. The approval confirms that the system complies with IACS technical requirements for cyber resilience in computer-based systems installed on board ships

CAPABILITIES	24/7 Maritime SOC Monitoring	Threat Detection & Incident Response
	Intrusion Prevention & Network Hardening	Secure Vessel-to-Shore VPN Architecture
	Alignment with IMO Cyber Risk Management	IACS UR E27 Compliance Support



SEAMLESS FLEXIBLE BANDWIDTH OPTIMIZATION & CONTROL

We provide a specialized suite of network and bandwidth management tools to enhance connectivity on **commercial fleets, leisure vessels, and offshore oil rigs**. Our **Business Network** solution unifies onboard communication channels for seamless, **flexible**, reliable, and high-speed internet at sea.

KEY FEATURES INCLUDE

- Cloud-Managed Interface
- Data, Network, and Usage Management
- Load Balancing and Failover
- SD-WAN Technology
- Next-Generation Firewall



CLOUD-MANAGED INTERFACE

Access real-time data metering and analysis for precise monitoring of your vessel's network.



DATA, NETWORK, & USAGE MANAGEMENT

Easily manage data traffic, optimize network resources, and control usage efficiently.

LOAD BALANCING & FAILOVER

Ensure uninterrupted connectivity with load balancing and automatic failover between network channels.

SD-WAN TECHNOLOGY

Combine and control multiple connections with advanced routing and channel bonding for superior speed and performance.



NEXT-GENERATION FIREWALL

Protect your vessel's network with cutting-edge firewalls, traffic policies, and secure VPN connections.

xpert Convergence

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HELP DESK

Ship Expert Technology provides **24/7 expert maritime support**, ensuring seamless operation with proactive monitoring, real-time assistance, and rapid issue resolution.

Our certified specialists minimize downtime and maximize efficiency, keeping your fleet always connected.



YOUR TRUSTED
MARITIME HELP DESK
EXPERT SUPPORT

Ship Expert Technology delivers **24/7 expert support** to keep your maritime operations running seamlessly. Our **Network Operations Center (NOC)** is powered by skilled engineers and maritime technology specialists, all certified in **offshore safety training and STCW 2010 basic safety courses**. This ensures we can efficiently support **mobile offshore units and all vessel types**, providing **proactive monitoring, rapid troubleshooting, and real-time technical assistance** to minimize disruptions and maximize operational efficiency.

KEY SERVICES



Expert assistance anytime, minimizing downtime & disruptions.



Proactive tracking of system performance to detect and resolve issues before the impact operations.



Fast, efficient problem-solving to maintain operational continuity.



Regular software and firmware updates to enhance system stability and security.



CONSULTANCY

Ship Expert Technology empowers your maritime operations with personalized consulting services, delivering tailored solutions designed specifically to your needs. Our experienced team collaborates closely with you to optimize efficiency, ensure compliance, and drive successful digital transformation, navigating you confidently through maritime complexities.



CUSTOMIZED MARITIME SOLUTIONS FOR YOUR UNIQUE NEEDS

At ShipExpert Technology, we understand that every maritime operation is unique. That's why our **Xpert Consultancy** service provides customized, end-to-end solutions tailored to your specific needs. Our expert team works closely with you to develop **optimized technology strategies** that enhance efficiency, compliance, and performance.

KEY SERVICES



Technology Advisory & Digital Transformation

Expert guidance on adopting the latest maritime innovations to future-proof your operations.



Customized Maritime IT Solutions

Tailor-made software and connectivity solutions designed for seamless integration with your existing systems.



Regulatory Compliance & Safety Consultation

Ensure compliance with international maritime regulations, including IMO, SOLAS, and cybersecurity standards.