The Smart Leader in the Field of Navigation and Telecommunication

SEANET
M A R I N E P L A N E T

Sea **E**arth **A**ir **Net**work
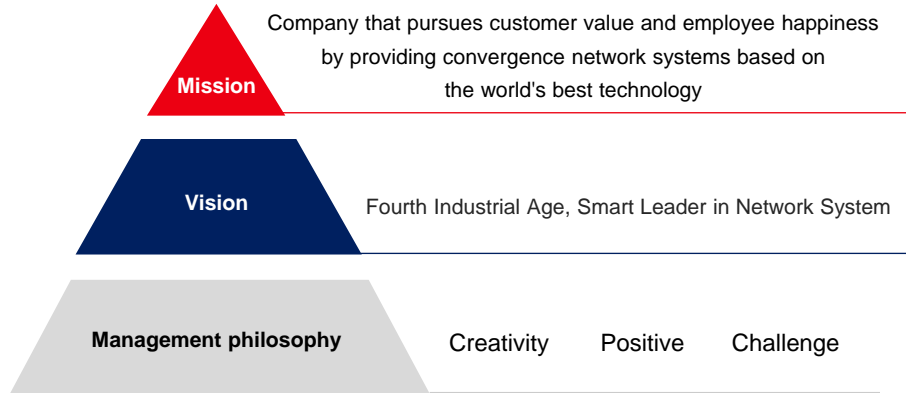
We are building a net with sea, earth and air

The Smart Leader in the Field of Navigation and Telecommunication

SeaNet

Business Principles

Mission — Company that pursues customer value and employee happiness by providing convergence network systems based on the world's best technology

Vision — Fourth Industrial Age, Smart Leader in Network System

Management philosophy — Creativity   Positive   Challenge

About SeaNet **Build a net with sea, earth, and air from the SeaNet**

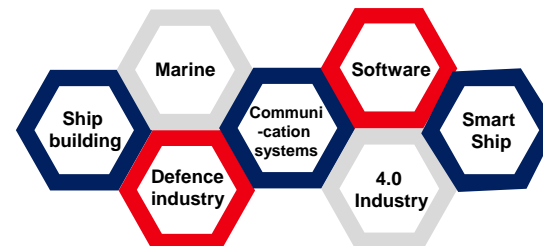|	
Company	SeaNet Co., Ltd.
CEO	Ryu yoonki
Number of employees	71 (01.2023)
Patent	Voice activity detection method Internet broadcasting service system and method using set-up box
Trademark registration	8 cases including Iridium Junction Box
Location	Busan Headquarters : 542, Jeoryeong-ro, Yeongdo-gu, Busan, Korea 49109 Office : Seoul Office / Geoje Office / Ulsan Office Factory : Factory1 – Headquarters / Factory2 – Cheonghak-dong

SeaNet History

Year	Event
2022	Completed development of eSEES for small sized shipping company
	Obtained ISO27001 Certificate by KR
	Selected as an excellent employment company by Busan City hall
	Awarded Certificate of Appreciation by Korea Coast Guard
2021	Joint agreement to build a smart ship service center
	Completed SeaNet Monitoring System Exhibition Room
	Obtained MED Certificate (module B, module D) (BV)
2020	Obtained ISO27001 Certificate by LR
	Completed ISO45001 Certification transition in KR
2019	Selected as shipbuilding equipment business diversification company
	Joined as a CIRM member
2016	Received National Tax Service award
2015	Certified as excellent employment company
2014	Awarded "$5 million Export Tower"
2013	Established research institute
2010	Established SeaNet

Certificate

MC(Magnetic Compass) MED Certificate

ISO9001, 14001, 45001 Certification Transition(KR)

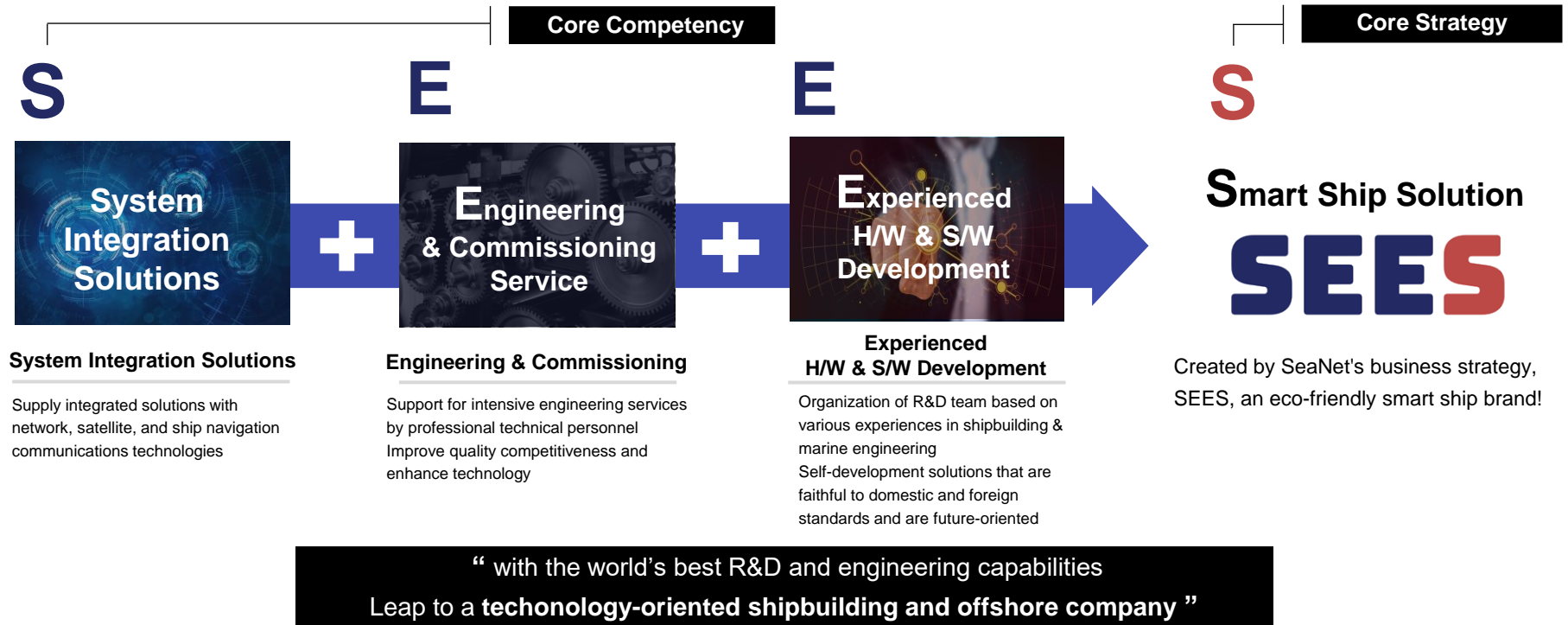ISO27001 Certificate(LR, KR)

SeaNet Portfolio

Marine
Software
Ship building
Communi-cation systems
Smart Ship
Defence industry
4.0 Industry

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BUSINESS STRATEGY

◆ **'SEES'** represents SeaNet's business strategy and eco-friendly smart ship brand

SEES, SeaNet's Business Strategy

Core Competency

Core Strategy

S

E

E

S

System
Integration
Solutions

+

Engineering
& Commissioning
Service

+

Experienced
H/W & S/W
Development

Smart Ship Solution

System Integration Solutions

Supply integrated solutions with network, satellite, and ship navigation communications technologies

Engineering & Commissioning

Support for intensive engineering services by professional technical personnel
Improve quality competitiveness and enhance technology

Experienced
H/W & S/W Development

Organization of R&D team based on various experiences in shipbuilding & marine engineering
Self-development solutions that are faithful to domestic and foreign standards and are future-oriented

Created by SeaNet's business strategy, SEES, an eco-friendly smart ship brand!

> **"** with the world's best R&D and engineering capabilities
> Leap to a **techonology-oriented shipbuilding and offshore company "**

SEES, SeaNet's Eco-friendly Smart Ship Brand

Smart
Environmental
Economic
System

'SEES' is the smart ship solution that meets all smart, environmental and economic condisitons.

SEANET MARINEPLANET

BUSINESS

SeaNet is recognized by customers for its best know-how in this field, and provides navigation, communication, digital equipment and smart solutions with qualified technology and services

Navigation equipment

AUTOMATIC WEATHER SYSTEM
Weather navigation data display
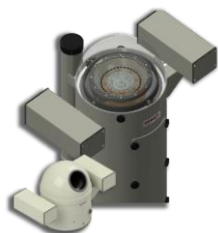
MAGNETIC COMPASS
Marine magnetic compass

GYRO COMPASS
Optical gyro compass

ELECTRONIC INCLINOMETER
Low-power ship inclinometer(Roll)
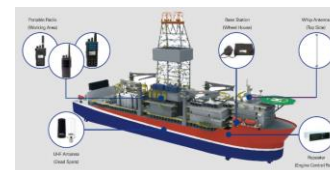
VDR
Navigation information recording device

Communication equipment

VSAT
Data transmission and reception antenna system

SATELLITE BROADCASTING RECEIVER
Satellite broadcasting reception antenna system

CITADEL COMMUNICATION
Emergency Iridium & VHF Communication for Citadel

UHF System
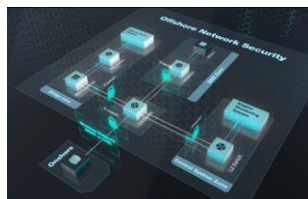Onboard Full coverage communication

GMDSS
Global Maritime Distress and Safety System

Smart Ship solution
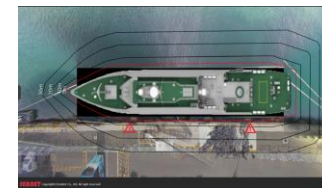
SEES
SeaNet's Smart Ship Solution

CYBER SECURITY SOLUTION
Ship firewall and gateway design

NETWORK
Ship integration network

AROUND VIEW
SeaNet's Smart Around View system
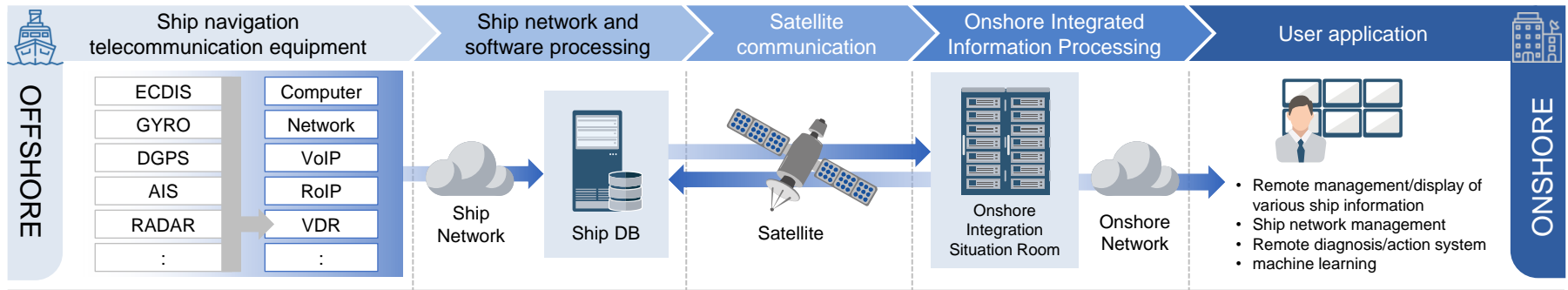
AR
Augmented Reality solution

BUSINESS

SeaNet's eco-friendly smart ship brand **SEES** offers users the best maritime work environment

Smart Environmental Economic System

SEES

Remote Ship Management Integration Solution

Various Ship Information Monitoring Solution

Providing customized smart solutions

OFFSHORE	Ship navigation telecommunication equipment		Ship network and software processing	Satellite communication	Onshore Integrated Information Processing	User application	ONSHORE

Ship navigation telecommunication equipment
- ECDIS
- GYRO
- DGPS
- AIS
- RADAR
- :
- Computer
- Network
- VoIP
- RoIP
- VDR
- :

Ship Network

Ship DB

Satellite

Onshore Integration Situation Room

Onshore Network

- Remote management/display of various ship information
- Ship network management
- Remote diagnosis/action system
- machine learning

Advantages

① **Customized solutions**　② **Simplicity and eco-friendliness**　③ **Enhanced security solutions**　④ **Compatible with existing equipment**　⑤ **Cloudization function**　⑥ **Price competitiveness**　⑦ **Continuous updates reflecting trends**　⑧ **Communication with customers**

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BUSINESS

The accumulation of System Integration(SI) experience and competent technical personnel show a new milestone in the field of navigation and telecommunication

Cyber security Solution

Ship firewall and gateway design
Cybersecurity verification
ABS/DNV/LR cyber security AIP acquisition

Ship Monitoring Solution

Ship to shore data transmission
Navigation system display
Data/video compression transmission technology
External transmission path change
(VSAT/FB/Iridium/LTE)

Our Capacity

Augmented Reality solution

Full video display around the ship
Identify the distance of the surrounding object
Ship augmented reality AIS information,
route display

LTE Solution

LTE main equipment(EPC/DU/RU) supply
Voice/Video Multi-Call
Monitoring the crew's location
Interworking health care unit

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BUSINESS

In the field of SI solutions, we have rich engineering know-how and the best manpower based on the largest drillship in domestic, offshore telecom, and LTE equipment experience

Ocean PJT

The Largest Platform in the World
INPEX CPF Telecom SI implementation

Performance Supplying WMS to the Largest Drillship in the South Korea

High Technical Skills for TETRA Radio
Offshore TETRA Engineering

External Communication Package for Ship
VSAT/UHF/TETRA/SAT TV supply

Special Ship PJT

First Navy with LTE in Domestic
Yang Manchun ship LTE oil test project

Next Generation Destroyer LTE
KDX/FFX-Batch III LTE Engineering

Navigation and Communication System Supply for KCG
Total combined navigation solution supply

Total SMS for Ship Establishment
Communication package integration implementation

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TECHNOLOGY DEVELOPMENT

STEP 01	**SEES 1.0** DATA Gathering & Analyzing

STEP 02	**SEES 2.0** Integrated Monitoring & Remote Management

STEP 03	**SEES 3.0** Remote Control & SMART K-Bridge

Start of SeaNet's smart ship solution
Provide data gathering & analyzing technology

Take the first step into future shipbuilding industry with SEES 1.0

Provide integrated monitoring system and remote management solution
Possession of core technology that will be the basis of future SEES 3.0

Completion of development and delivery performance at the current stage of integrated display and remote management

SeaNet's new smart ship solution
Provide monitoring system equipment with SEES 2.0 technology

Goal of development of SMART K-Bridge that can control ships from remote locations and operate the bridge with minimum number of people

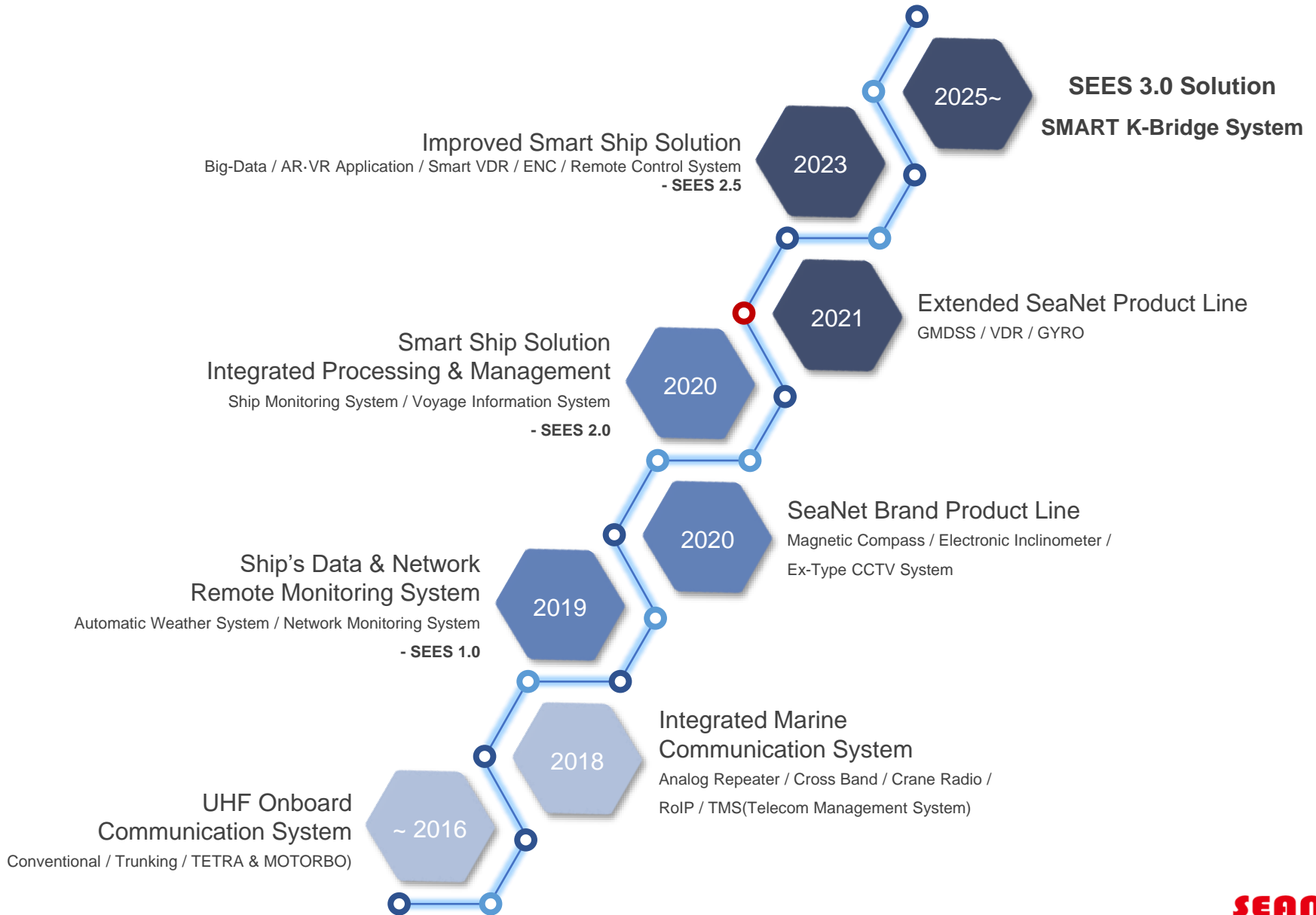## SEES 3.0 Concept

Remote Control   **SEES** Core solution for MASS in the 4th industrial revolution!   **SMART K-Bridge**

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TECHNOLOGY ROADMAP

SEES 3.0 Solution

2025~

SMART K-Bridge System

Improved Smart Ship Solution
Big-Data / AR·VR Application / Smart VDR / ENC / Remote Control System
- SEES 2.5

2023

Extended SeaNet Product Line
2021
GMDSS / VDR / GYRO

Smart Ship Solution
Integrated Processing & Management
Ship Monitoring System / Voyage Information System
- SEES 2.0

2020

SeaNet Brand Product Line
2020
Magnetic Compass / Electronic Inclinometer /
Ex-Type CCTV System

Ship's Data & Network
Remote Monitoring System
Automatic Weather System / Network Monitoring System
- SEES 1.0

2019

Integrated Marine
Communication System
2018
Analog Repeater / Cross Band / Crane Radio /
RoIP / TMS(Telecom Management System)

UHF Onboard
Communication System
~ 2016
Conventional / Trunking / TETRA & MOTORBO)

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Our Customers with SeaNet

We provide customers to the value they want, and grow with them

SERVICE NETWORK

KOREA, REPUBLIC OF
SeaNet, HEADQUARTERS, BUSAN
SeaNet, SEOUL OFFICE
SeaNet, GEOJE OFFICE
SeaNet, ULSAN OFFICE

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NIGERIA
Radial Circle Telecommunications
FIELDBASE SERVICES LIMITED

CHILE
Radiosub Ltda

EGYPT
MARCOM TRADE

ARGENTINA
NAVCOM

TURKEY
Cihan Gemi Elektronigi Elektrik Ve
Elektronik San.Tic.Ltd.Sti
DELMA SAFETY
NAVCOM DENİZ ELEKTRONİK SAN VE TİC. Ltd. ŞTİ.

GREECE
SRH Marine S.A.
HELLAS MARINE ELECTRONICS
PRIME PRODUCTS DISTRIBUTION Ltd.

RUSSIA
TRANSAS

DENMARK
API Marine ApS

VIETNAM
Marine Equipment Joint Stock Company

ITALY
Novelradio

NETHERLANDS
De Wolf Maritime Safety

CHINA
Lingjack Technology Development Pte Ltd.
NorthStar Marine Engineering & Service Co., Ltd.
RoundSea

TAIWAN
HECTOS Ltd.

Support Function

‹‹ SEANET ››

Global Field Engineer | **Support Desk** | **Remote Support** | **Application Support**

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We are building a net with sea, earth, and air

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