Sternula MMS Routing Ship

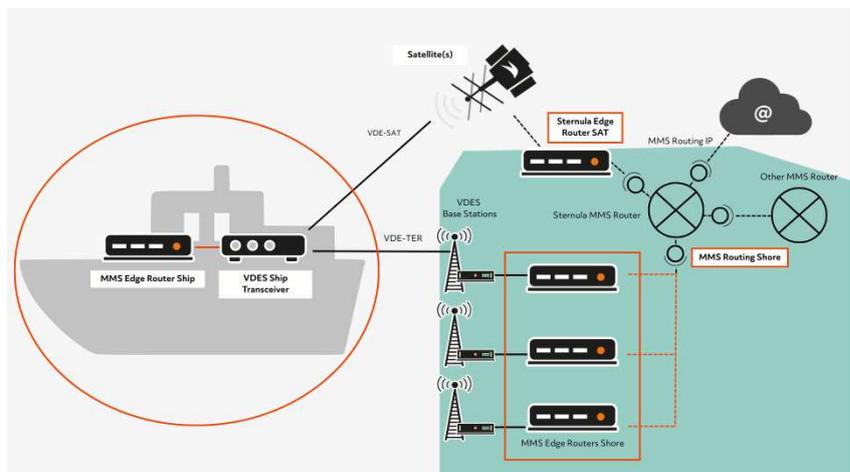*The World's First MMS Routing Service for VDE-TER*

The Sternula MMS Routing Ship stands as the pioneer shipside MMS Edge router/Router integration service designed according to the RTCM MMS specification 13900.0 for Maritime Messaging Service and Protocol, and IALA guideline G1117.

The Sternula MMS Routing Ship is a service to connect your VDES Ship Transceivers via the Sternula MMS Proxy Ship to the MMS Routing Network. It directs maritime communications to exchange data and messages between authenticated maritime users such as maritime administrations, port authorities, services, ship crew, captains, pilots, and personal equipment, in an efficient, policy-governed, and seamless manner.

Together with one Sternula MMS Proxy Ship per VDES Ship Transceiver, the Sternula MMS Routing Ship service enables your ships VDES transceivers to become part of the Sternula MMS routing solution to route your and/or other secure maritime services over your VDE-TER network to ships and other mobile VDES equipment.

What is it?

The Maritime Messaging Service (MMS), as defined in the RTCM MMS specification 13900.0, is a messaging component that allows authenticated maritime stakeholders to send and receive messages in an efficient, reliable, and seamless manner using the Maritime Connectivity Platform (MCP). MMS solves the problems of the current maritime wireless data communication system.

How does it work?

The Sternula MMS Routing Ship enables the transfer of digital maritime "messages" containing arbitrary digital data, using VDES Ship Transceivers.

The Sternula MMS Proxy Ship makes it possible for the Sternula MMS Router to use the connected VDES Ship Transceiver for MMS communication with the VDES base station in the terrestrial coverage area of that base station. Such MMS services can be selected to be accessible by ships with VDES equipment in the coverage area of that base station.
The **Sternula MMS Routing Ship** manages access to services and the mobility of ships in a VDES network.
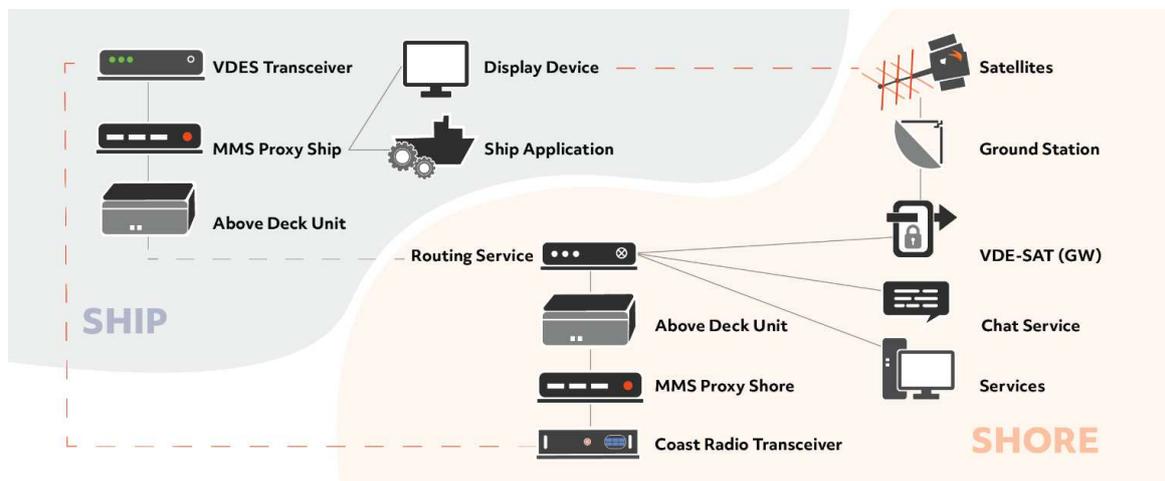
The **Sternula MMS Routing Ship service** enables ships equipped with VDES Transceivers to become part of the MMS network, allowing them to transport MMS services over that network.

Create Your Own Application

- Navigational Warnings
- Weather Forecasts
- Ice Charts
- Route exchange
- Virtual AtoN

Features

- Enables e-Navigation services
- Designed to meet new advanced AIS 2.0 terrestrial communication modes
- Designed in line with the RTCM MMS specification 13900.0
- Can receive MMS traffic through VDE-TER, VDE-SAT, and IP connections
- Designed to integrate with AIS (ITU-R M.1371) and VDES (ITU-R M. 2092) equipment

Compatibility:

- Use Sternula MMS Routing Ship Service to connect with the Sternula MMS Router
- One Sternula MMS Proxy Ship for each Ship VDES Transceiver to be used for MMS transport

Technical Specifications

VDES Functionality

VDE-TER, VDE-SAT	ITU-R M.2092-1
MMS Policy Management Functions	

Management Functionality (accessible for customer)

Statistic Functions Bytes/hour, /day payload Number of messages /hour and /day