sternula
Connecting the Oceans

Sternula MMS Proxy Shore

The World's First MMS Edge Router for VDE-TER

The Sternula MMS Proxy Shore stands as the pioneer shoreside MMS Edge router, encased in robust hardware, designed according to the RTCM MMS specification 13900.0 for Maritime Messaging Service and Protocol, and IALA guideline G1117.

The Sternula MMS Proxy Shore directs maritime communications to exchange data and messages between authenticated maritime users such as maritime administrations, port authorities, and services, ship crew, captains, pilots, and personal equipment, in an efficient, policy-governed, and seamless manner.

Route your secure maritime services over VDE-TER to ships and other mobile VDES equipment using the Sternula MMS Proxy Shore. The Sternula MMS Proxy Shore enables terrestrial VDES base stations to become part of our MMS routing solution.

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 product line for Shore enables the transfer of digital maritime "messages" containing digital data, using VDES terrestrial base stations.

The Sternula MMS Proxy Shore makes it possible for the Sternula MMS Router to use the connected VDES base station for MMS communication with VDES-equipped ships 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 Shore manages access to services and the mobility of ships in a VDES shore network. It provides traffic statistics and accounting functions for management.

sternula.com
info@sternula.com

Danalien 1, 2.tv
9000 Aalborg, Denmark

sternula
Connecting the Oceans

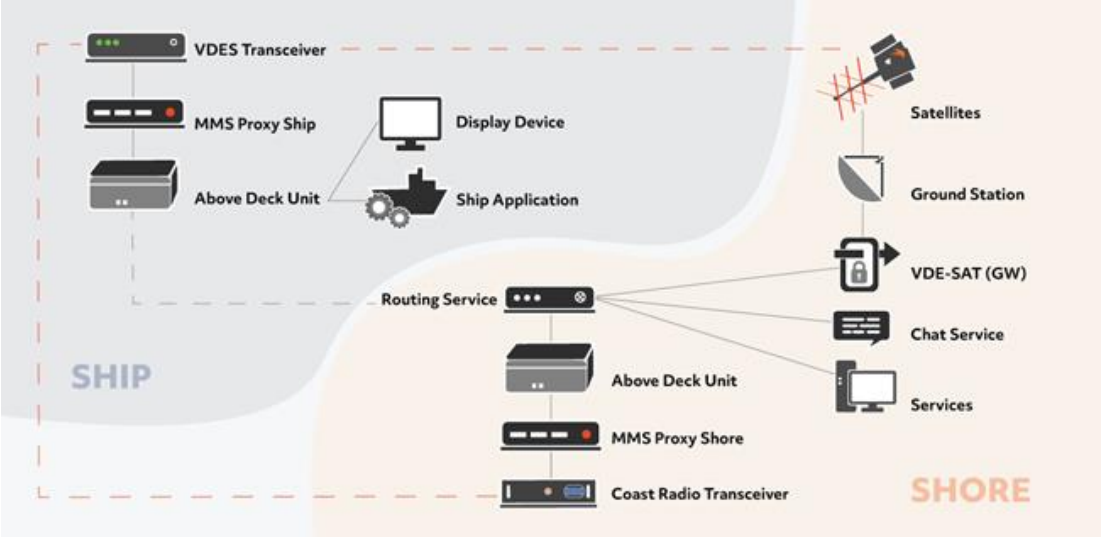
The Sternula MMS Proxy Shore allows coastal terrestrial base station network operators to become a part of the MMS network and transport MMS services over it.

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 RTCM MMS specification 13900.0
- Connects the Sternula MMS Router with a VDE-TER Base Station
- Designed to integrate with AIS (ITU-R M.1371) and VDES (ITU-R M.2092) equipment



Technical Specifications

Other Functionality

Remote device management: firmware upgrade, feature unlock, configuration, application installation
Secure maritime application execution platform

Environmental

Designed to comply with	IEC 60945

Power Input

Power Supply Voltage	10-32 Volt
Power Consumption typ/max.	3 / 18 Watt
With ADU	6 / 24 Watt
Absolute Maximum Power Consumption	24 Watt
Recommended Fuse for 12 / 24V	2 / 1 A

Dimensions/ Weight

Dimensions H x W x D	50 x 250 x 170 mm
Weight (without cabling)	1370 g

Interfaces

1x VDES Base Station	IEC 61162-450, IEC VG 63514
Sternula LTE ADU	100 Mbit/s Ethernet with prop. PoE
Other IP Connectivity interface	100 Mbit/s Ethernet WAN
Screen, Keyboard, Firmware	HDMI, 2x USB-A

VDES Functionality

VDE-TER	MMS Edge Router

sternula.com
info@sternula.com

Danalien 1, 2.tv
9000 Aalborg, Denmark