

# PHAROS

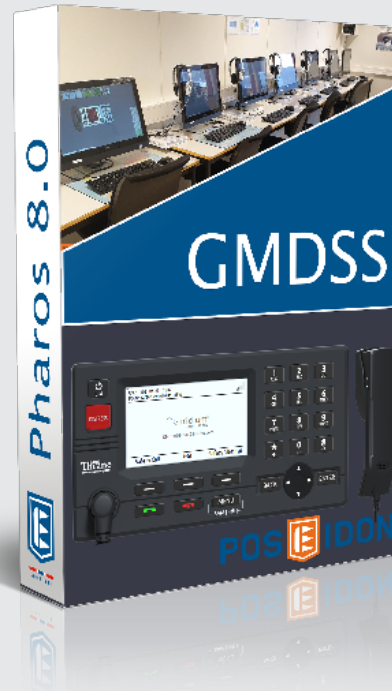
Poseidon GMDSS Simulator

**2023**

**Product Brochure**



**POSEIDON**  
SIMULATION



# Pharos GMDSS 8.0

## **Empowering maritime education worldwide**

Thank you very much for your interest in Poseidon Simulators. Poseidon has offered simulators since 1989 and has since then been one of the world leading suppliers of simulators and teaching aids for maritime training. Poseidon Pharos simulator system is world leading in the field of GMDSS training. Today, more than 1000 simulator stations are installed in over 160 PC networks worldwide.

# GMDSS SIMULATOR

## 1 Introduction

Cooperating with Telenor (Norwegian Telecom authority), MCA/AMERC (UK) and several customers, we have designed a total training solution for GMDSS which is effective in giving trainees required knowledge to achieve certificate, and get the necessary skills to handle procedures and equipment correctly in a distress situations.

The STCW compliant Poseidon Pharos GMDSS simulator is a highly suitable tool for GMDSS training according to IMO model courses: 1.25 (GOC) and 1.26 (ROC).

In June 2020 we received the Statement of Compliance letter from DNV GL for the simulator to be in accordance with Class A- Standard for Certification of Maritime Simulators No. DNVGL-ST-0033 2020, Issued statement No: 001/200625 for DNVGL certificate.

The advanced instructor module with Coast Radio Station simulation and the option to assign several stations and Rescue Coordination Stations to one exercise makes the Poseidon Pharos GMDSS simulator also an excellent tool for training CRS Operators and MRCC personnel. Poseidon has introduced a module for Automatic Assessment that can be used for practical tests and examination for the ROC or GOC level.

The new Nav areas 17-21, Arctic Area, are implemented and the latest GMDSS instruments as AIS SART is also the Pharos GMDSS Simulator

In 2021 was the Lars Thrane LT 1300S Iridium GMDSS implemented to our Pharos GMDSS simulator as first in the world.

Poseidon Simulation AS is approved by DNV in accordance with the quality standards of ISO 9001-2015.

## 2 Simulator system highlights and benefits

### 2.1 Operational characteristics

The Poseidon Pharos GMDSS simulator is especially suitable for SAR training. It has a Coast Radio and Rescue Coordination Centre module, built in chart module, radar simulator that detects SART signals and a maneuver module for changing course and speed in order to assist the ship in distress.

### 2.2 Coast Radio and RCC Emulation

The instructor(s) can operate as any Coast Radio Station (CRS) around the world. Available equipment at the CRS's is according to List of Coast Stations. The instructor can easily switch between CRS's that receives incoming messages/calls and act accordingly. The instructor can also act as (M)RCC in a dedicated RCC view. The instructor can also create new and edit stations in a wizard.

### 2.3 Front End Technology

The Poseidon Pharos GMDSS simulator replaced in 2008 the old DOS based GMDSS system (PGS) from 1992. Pharos is developed using the latest network and multiplatform technology using Voice over IP (VoIP), Windows or Linux OS, Windows GUI, Open GL graphics, TCPIP network protocol and Touch Screen operation.



## Available Instruments

Both student stations and instructor stations (Instructor controlled traffic ships) simulates the following equipment:

- INMARSAT C ship earth
- MF/HF w/DSC (not in ROC)
- MF/HF NBDP (telex) with MSI receiving capability (not in ROC)
- VHF w/DSC (two types)
- Portable VHF
- VHF Air
- Navtex
- EPIRB
- SART
- AIS SART
- Radar
- Ship control levers
- Electronic Chart Display at student positions
- Printer facility for printed text communication
- Intercom
- SSAS

The interface is highly customizable, and the instructor can choose which instruments to display at any given point.



### 3 Lars Thrane A/S Iridium LT-3100S

Iridium LT-3100S is a brand new satellite communication system for maritime use. This model introduces GMDSS-support with 100% global coverage, and can be used as the primary satellite communication product on vessels. It covers the basic communication needs in terms of connectivity between the ship and shore, as well as critical GMDSS services, such as: Distress Alert, Safety Voice, and Maritime Safety Information (MSI). This comes as a result of Iridium being approved by the IMO's Maritime Safety Committee (MSC) in 2018.

The LT-3100S GMDSS system is introduced as an alternative to the Inmarsat C. The release of Pharos 8.0 includes a software implementation of the Lars Thrane LT-3100S GMDSS system, with new features implemented both on the Instructor- and Student-platform. All GMDSS-features are implemented as part of this installation. These features include, but are not limited to: Distress alert and safety calling, routine calling between ships, MSI-messaging, coastal warnings and safety messaging. The instructor, representing the RCC, can communicate with students through the LT-3100S terminal deployed on the ships through messaging and calling.



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