The Transas GMDSS (Global Maritime Distress and Safety System) simulator TGS 5000 is designed for the training and examination of ship specialists who receive a General Operator Certificate (GOC) or Restricted Operator Certificate (ROC). Search and Rescue (SAR) operations and VTS operator training is also supported.

**COMPLIANCE**

Transas GMDSS simulator covers the essential areas of maritime training in full compliance with STCW 1978 Code with Manila 2010 amendments and IMO Model Course 1.25. It has a statement of product quality according to the NK Standard for Certification of Maritime Education and Training Simulator Systems and holds a type approval certificate from the Department of Maritime Transport of Russian Federation (v.8.2). The simulator with touch-screen technology (v.8.3) is approved by the AMERC for the conduct of GOC examinations in place of actual equipment.

**CONFIGURATION**

- **Stand alone mode** for self-study.
- **Network mode** for individual and joint training of fleet operators with expert assessment of their competency in accordance with STCW 1978 Code with Manila 2010 amendments. Up to 3 instructor workstations and up to 21 fully interactive trainee workstations.
- **VTS operator training.** The simulator can include up to 10 VTMS communication operator workstations intended for the training of coast VTMS operators.
- **Mobile GMDSS Simulators for Long Range Certificate Examination.** Used for local examinations on-site at various radio schools. The networked simulator (one instructor and two trainee workstations) is connected via a wireless LAN and trainees are equipped with touch screens. Designed to be carried in rugged suitcases to allow easy travelling and quick setup on-site.

**PRECISE SIMULATION OF REAL GMDSS EQUIPMENT**

- Simulation of full set of SAILOR 6000 equipment.
- It is possible to use four different types of GMDSS radio equipment, manufactured by S.P.Radio/Thrane & Thrane: SAILOR 6000, SAILOR 5000, SAILOR System 4000 and SAILOR Compact 2000. In addition, the VHF&DSC FURUNO FM-8800S is included.
- Jotron AIS SART as per IMO Resolution MSC. 256 (84) as an alternative to 9 GHz SART (from January 1st 2010).
- Simulation of Inmarsat Fleet77, Inmarsat FBB, AIS Class A and Glonass/GPS receiver.
- Each trainee workstation can be supplemented with a Transas compact console including the real control panels from SAILOR Program 6000 units.
CAPABILITIES

- Simulation of MF/HF/VHF communication in DSC, telephony and telex modes and satellite communication between the workstations (ships), and with coast radio stations for any shipping area.
- Simulation of maritime safety information transmission via SafetyNET, NAVTEX and HF NBDP services.
- Imitation of radio wave propagation using radio ether model, which takes into account the frequency range, time of the day and distance between the stations.
- Conduct SAR operations using the radar for detecting SART marks, prompt change of the ship’s course and speed.
- Electronic chart displays coast station databases (with the option to edit by Instructor), GMDSS sea areas, SAR areas, plus the ability to make a rough estimate of the radio waves propagation in the selected frequency band.
- Ability to change from network operation to the single-user mode to provide self-study in Demo, Test and Exam modes.
- Recording and playback of radiotelephone communications.
- Joint operation with navigational simulator.
- Simulation of SAILOR 6391 Navtex receiver.
- Simulation of SAILOR 6282 AIS Transponder.
- Simulation of SAILOR 3771 Alarm Panel FleetBroadband.

Instructor can promptly:

- Enter different interference on the selected frequencies.
- Run and control the prepared scenarios.
- Operate in telephone, telex and DSC modes performing functions of a coast telex or phone subscriber, coast radio station and RCC operator.
- Monitor any active trainee workstation screen.