Joint Search and Rescue training





Supplier to the Royal Danish Navy



Training focus on

- Rescue operations
- Headquarters and operational units
- Aeronautical and Maritime SAR operations
- Joint Coordination Rescue Centers (JRCC)
- Maritime Rescue Coordination Centers (MRCC)

Training in a simulated environment

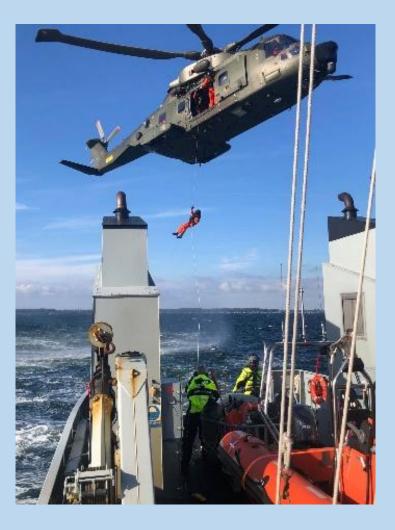




Training Objectives

- OPS Room On the job training
- Aircraft Coordinator training
- Mass Rescue Operation training
- Communication exercises
- GMDSS training

Planning, Coordination and Execution





Roles Being Trained

- SAR Mission Coordinators (SMC)
- On Scene Coordinators (OSC)
- Air Coordinators (ACO)
- SRU Personnel
- Helicopter pilots
- Police
- Home Guard

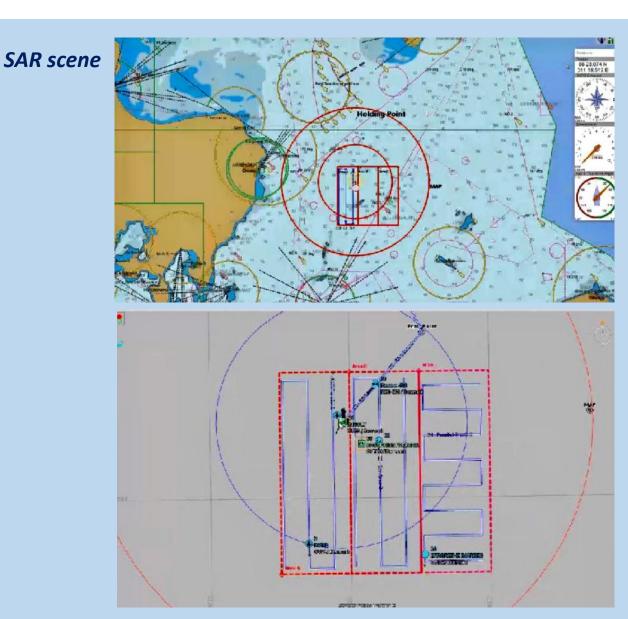






Simulator, SAR exercise

- Accident in Kattegat, East of Grenaa
- Vessel on fire
- Crew in lifeboats
- Helicopters called in for assistance
- Holding and Entry points
- Search patterns



Example



SAR scene

Helicopter view

Simulator, SAR exercise

- SAR vessel
- Helicopters
- Lifeboats
- Vessel on fire
- Other ships





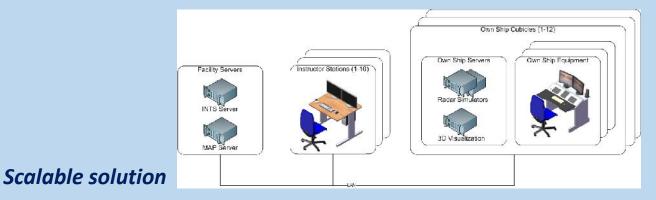
Example



JRCC Training Center

- Rescue Center OPS (JRCC)
- Own ship cubicles (SRUs)
- Communication systems
 - VHF-DSC, HF, UHF
- Instructor stations
- Facility servers

OPS Room, example



Multiple instructors, simultaneous exercises



OPS Room, desktop version

- Operation, Coordinate and Monitor
- Instruction, Debriefing/Replay
- Receiving/Investigating distress alerts
- Applying Search Action Plans (SOP)
- Plot and Execute search patterns
- Interact with On Scene Coordinators

Instructor / Planning station





SMC station

SAR Joint Search And Rescue trainer

SRU Cubicles

- Console or desktop versions
- Represents a ship or air asset
- Maneuvering / Conning unit
- 3D Visualization system
- Radio Comm and Intercom
- VHF radio









Large 3D model library

Moving assets

- Civilian ships
- War ships
- Air planes, Helicopters

Land / Cultural objects

- Bouys
- Light houses (color frequency)
- Windmills, Churches
- Sea Chart reference points

Customer-Specific 3D models

3D Visual effects

- Smoke
- Signal flags
- Waves, Clouds, Perception, Visibility



SRU Cubicles, desktop version

- Cubicle represents one ship or air asset
- Maneuvering / Conning unit
- Monitors
- 3D Visualization system
- Radio communication & Intercom
- VHF radio









SRU Cubicles, console version

- 3D Bridge view
- Radar unit
- Maneuvering / Conning unit
- Sea Chart ECDIS console
- VHF DSC radio







VHF-DSC radio

- MMSI number, position, time
- Dual watch, Channel 16 and another
- VHF voice communication
- Sending distress
- Receiving distress from other ships
- Acknowledgement of received distress
- Replay of last received audio messages

Emulated J-SAR radio





Complete solution for training coordination of Aeronautical and Maritime SAR operations in the OPS room



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