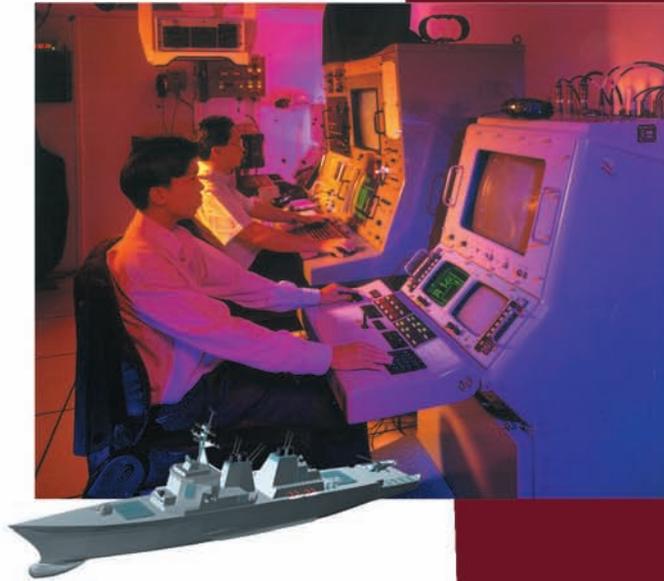


Fleet Instrumented Sea Training System (FISTS™)

HIGHLIGHTS

- Constructive War-Gaming
- Real-Time Monitoring and Control of Exercises
- Training Involving Virtual and Live Participants
- Multi-level Training of Combatants at Sea
- Integration of HLA-Compliant Training Systems
- Inter-operability between Surface and Air Platforms



Realism is fundamental in exercises at sea or ashore. With greater realism, training becomes more effective, and the attainment of mission success a higher probability.

As training demands and realism increase, task force commanders and ship captains will require even more reliable planning and monitoring systems to prepare for and track exercises, particularly those involving actual forces at sea.

ST Electronics (Training & Simulation Systems) Pte Ltd (STEE-T&S) has the unique solution to meet the training requirements of forces at sea with the world's first Fleet Instrumented Sea Training System (FISTS™). Developed and implemented since 2002, FISTS is an innovative, flexible and cost-effective solution, aimed at fulfilling the rigorous training needs of all navies.

Using the latest in cutting-edge technologies, FISTS provides a single seamless system to practice naval forces in anti-surface and anti-air operations in a range of virtual, live and hybrid training exercises. FISTS marries powerful computing technologies with long-range transceivers with expanded channel frequencies to monitor command, control and communications systems on a real-time basis. Improved data link algorithms optimise transmission times and allow for robustness and extend the range at which exercises may be monitored and controlled.

Complementing FISTS is STEE T&S' latest generation of naval training emulators, called the Advanced Combat Emulator (ACE).

ACE comes in for combat systems that cannot be instrumented. When required, ACE will emulate specific combat systems like the Action Information System or Fire Control System.

With FISTS and ACE, STEE T&S provides navies with completeness in operational training. The two systems offer a full-scale, cost-effective inter-operability training concept for all crews.

Training & Simulation Systems



**Singapore Technologies
Electronics**

A company of Singapore Technologies Engineering

KEY FEATURES



FISTS encompasses the following main components:

- Shore Monitoring Station
- Shore Relay Station
- Ship FISTS
- Shore Debriefing Station
- Integration of FISTS to existing shipboard systems

CAPABILITIES



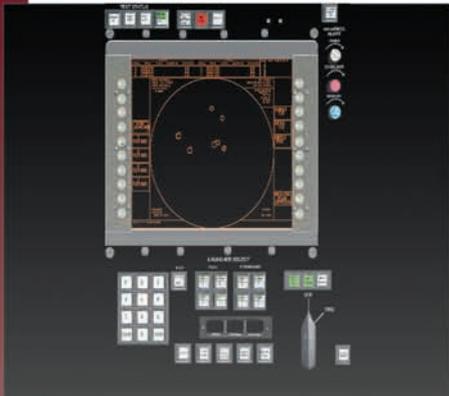
FISTS enabled-vessels perform realistic and interactive real-time engagements with one another as in real life. STEE-T&S proprietary intelligent Computer Generated Forces (CGF) emulating advanced virtual threats and participants, can also be introduced into the exercise for added operational complexity and realism. FISTS features real-time exercise monitoring and control with post-exercise debriefing capabilities.



The system can also be connected to other simulators such as the Full Mission Ship Handling Simulator (FMSS). The Generic Data Adapter (GDA), an extension of FISTS, provides the data link to enable physical connectivity between the FMSS and FISTS. The GDA acts as a gateway system, translating scenarios gathered from the FMSS into common virtual entities to FISTS. GDA also transmits entities from FISTS to FMSS as CGF.

FISTS is designed for High Level Architecture (HLA) compatibility for growth potential and integration with other compliant training systems. Under the HLA protocol, the system is capable of conducting real-time simultaneous training with one platform or many platforms in a given environment.

Multiple and simultaneous exercises under separate conditions and scenarios are also possible. In all exercises, any platform equipped with FISTS will have the flexibility to join or leave an area of operation without disrupting an exercise.



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