

ST Training & Simulation Pte Ltd Showcases

Modular Designed HLA-Compliant Distributed Mission Fighter Stations At Defendory 2002

Singapore – September 24, 2002 – ST Training & Simulation Pte Ltd (“STTS”), a subsidiary of Singapore Technologies Electronics Limited (“ST Elect”), will showcase its first modular Distributed Mission F16 Fighter Stations at Defendory International 2002 held in Athens, Greece from 1 – 5 October 2002.

Built on the High Level Architecture (HLA) protocol, the STTS’ Distributed Mission Fighter Station (DMFS) is designed and developed as an affordable man-in-the-loop fighter trainer. The HLA design enables multiple Distributed Mission Fighter Stations to be linked together; thus allowing multiple pilots to train interactively in a realistic virtual and real-time environment from different locations. The system made its debut appearance at Africa Aerospace & Defence in September 2002.

The state-of-the-art system is built on the latest commercial-of-the-shelf (COTS) software system. The utilisation of COTS packages allows easy system re-configurability, while keeping maintenance and operational costs at affordable levels.

Operating within the LINUX environment, the DMFS is supported by a cluster of PC-Class computers. Primarily, the system consists of a desktop mounted flight control system that emulates aircraft flight controls and a one-computer monitor screen, providing pilots with out-the-window (OTW) field of view (FOV) of 60 (H) x 45 (V) degrees. The viewing capability can be enhanced with a three-screen OTW which allows for a 180 (H) x 45 (V) degrees FOV. A separate Instructor Operating Station (IOS) is included to plan, monitor

and control flight-training scenarios. The IOS is also used for comprehensive After Action Reviews.

The realism of the virtual wargaming environment is generated from photo textured satellite imagery using high performance PC graphics cards. The visual database used for the DMFS is optimised, whilst minimising future maintenance requirements. This approach ensures a common set of correlated terrain and sensor databases that are and can be shared with other flight simulators.

STTS' Modular Design HLA-compliant DMFS is designed to address the philosophy of distributed training. The STTS' DMFS is well-equipped to provide realism for training in the following areas:

- Basic Navigation Procedural Training which includes the operational procedural training of high, medium and low level profile under various weather conditions.
- Weapons Familiarisation and Operations
- Mission Oriented Training; this includes a range of training from familiarisation and operation of aircraft store management system / fire control system in various modes to individual pilot experience level.
- Training of the familiarisation and operation of weapon deliveries and employment of onboard systems against various surface and air targets. Training scenarios are conducted under varying conditions of weather, day or night, presence of anti-air defences and air threats.

The PC based system allows pilots to train in procedural air-to-air combat (1 vs 1 or 2 vs 1 scenarios) with two or more DMFS. Supported by intelligent Computer Generated Forces (CGF), a realistic virtual world for the training of procedural and tactical skills of individual and/or cohorts of pilots is made possible.

"Customers will reap positive training results as an outcome of STTS' latest development. In addition to being compact and lightweight, the distinct advantage of this revolutionary training system is its cost effectiveness. Based on COTS components, STTS has designed and developed these systems to address comprehensive mission training needs of its customers. The low-cost DMFS complements STTS' high-end simulators such as the Air

Distributed Mission Trainers which were demonstrated at the recent Asian Aerospace 2002 Exhibition in Singapore.”

**~ Pritam SINGH,
General Manager - STTS**

Visit the STTS Distributed Mission Fighter Station at the Singapore Technologies Engineering booth (located at stand no: 554-561) at Defendory International 2002 from 1 to 5 October 2002. The exhibition will be held at the Piraeus Exhibition Center in Athens, Greece.

Pictures

Digital pictures are available upon request

About STTS

STTS was incorporated in 1999 as a subsidiary of Singapore Technologies Electronics Limited. Its 250-strong workforce offers its expertise in providing one-stop solutions, from software applications and development of new innovative training systems to providing maintenance and upgrade of legacy training systems. With over two decades of experience, STTS has established itself as a recognised leader with expertise in both the military and commercial sectors. The company is currently working to grow its market in the Asia Pacific region. STTS' product range includes Fixed Wing Simulators, Rotary Wing Simulators, Ground Simulators and commercial simulators. STTS' HLA-compliant simulators allow for joint air, land and sea training. For more information on STTS, please visit www.stts.st.com.sg

About ST Elect

ST Elect, the electronics arm of Singapore Technologies Engineering (ST Engg), is one of the largest electronics system houses in the region. ST Elect prides itself in delivering innovative system solutions to defence, commercial and industrial customers worldwide. It specialises in the design, development and integration of advanced electronics systems, such as communications, m-commerce solutions, microwave, traffic and rail management, real-time command and control system, training & simulation, and intelligent building management. ST Elect applies leading-edge technologies and design methodologies to meet the stringent requirements of customised electronics systems and solutions. It undertakes continuing research and development to help create cost-effective proprietary

products at system and component levels, delivering innovative and quality solutions to customers. For more information on ST Elect, please visit www.stee.st.com.sg

About ST Engg

ST Engg is an integrated engineering group specialising in the fields of aerospace, electronics, land systems and marine. A leader in each of its core businesses, ST Engg provides one-stop services for air, land and sea platforms as well as systems-based solutions. Headquartered in Singapore, the Group employs about 11,000 employees worldwide with a revenue of about S\$2.5 billion in FY 2001. ST Engg is one of the ten largest companies listed on the Singapore Exchange with a market capitalisation of S\$5 billion as at end August 2002.

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At Defendory International 2002

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