



STTS showcases an Integrated Live and Virtual Simulation Solution at Aero India 2003

Singapore, 30 January 2003 – ST Training & Simulation Pte Ltd (“STTS”), a subsidiary of Singapore Technologies Electronics Limited (“ST Elect”), will showcase an integrated live and virtual simulation solution at Aero India 2003, in Bangalore, India.

Premiering at Aero India 2003 for the first time ever, will be STTS’ seamless integrated air training solution using its cutting-edge Distributed Mission Fighter Stations (DMFS). The DMFS, which emulates a fighter aircraft, is interfaced with STTS’ advanced airborne pods, which are part of a live simulation system known as the Rangeless Air Combat Manoeuvring System (RAMS™). This demonstrates the interoperability of the two systems through a synchronised air combat mission exercise. Operating in the same virtual battlefield, the networked DMFS allows pilots to fly in a single mission rehearsal with both real and simulated adversaries and teammates.

RAMS™ is a complete instrumentation solution that is power packed with features such as real-time weapon simulation, air-to-ground weapon deployment, advanced air-to-air and air-to-ground collision avoidance algorithms, and scenario replay capability. The STTS RAMS™ is capable of tracking hundreds of aircraft in the same environment. With the unique implementation of the Data Link System, it allows any aircraft equipped with the RAMS™ pod to participate in the exercise without preparation or set-up on the ground. The system is capable of performing its functions anywhere and independently from the ground stations.

The STTS RAMS™ can be deployed on a wide range of fixed wing aircraft. A complete instrumentation solution, the RAMS™ uses the latest commercial-of-the-shelf (COTS)

subsystems and components. The state-of-the-art DMFS is also built on COTS software system. The utilisation of COTS packages allows easy system re-configurability, while keeping maintenance, upgrade and operational costs at affordable levels.

Complementing our live aircrew mission training, STTS will also be demonstrating the capability of combat surveillance through the Unmanned Aerial Vehicle (UAV) simulators. The simulators can train operators on the deployment and operation of the UAVs.

In keeping with the target designation role of the UAV, the operation to effectively navigate to, designate, hold, deploy munitions, re-designate and confirm the target destruction, requires precise interaction between the munitions delivery and the UAV crew. Such joint training can be carried out with either a pseudo pilot station or with an actual aircraft simulator.

Developed by STTS, the UAV simulator is designed to train pilots, intelligence officers and observers. In the External Pilot training mode, STTS' External Pilot UAV station trains pilots in the take-off and landing of the UAVs. The virtual training environment comprises specific runways, environmental conditions and malfunctions. The display system of an External Pilot consists of a large field of view (FOV) at 180 degrees horizontal FOV and a 120 degrees vertical FOV, to ensure that the pilots are totally immersed in its training environment. The flights are recorded for future reference and debrief purposes.

Once the external pilot has launched the UAV, the internal Ground Control Station (GCS) crew can manoeuvre the UAV to designated locations for its tasks.

“Our training system can link a simple two-fighter system up to large composite formations for large-scale air operations. This will minimise the need for flight crews to conduct live flying training, which will allow an Air Force to shift their training focus from basic operations to more realistic and complex air operations and mission planning and rehearsals.”

*~ Pritam Singh
General Manager, STTS*

Visit the ST Training & Simulation booth at Hall A, Booth No. 220-221 at the Aero India 2003 and see our Integrated Live and Virtual Simulation Solution, involving our DMFS, RAMS™ and UAV Simulator. The exhibition will be held at Yelahanka Airbase, Bangalore, India from 5 to 9 February 2003.

About STTS

STTS was incorporated in 1999 as a subsidiary of Singapore Technologies Electronics Limited (ST Elect). With a 250-strong workforce, STTS offers 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 strives to provide its solutions to customers in the Asia Pacific region. STTS' product range includes Fixed Wing, Rotary Wing, Ground and Commercial Simulators and instrumented solutions for aircraft, naval ships and ground forces. STTS' HLA-compliant simulators and instrumented products allow for joint air, land and sea training. For more information on STTS, please visit its website at www.stts.st.com.sg

About ST Elect

ST Elect, the electronics arm of 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 broadband RF & microwave communication systems, rail & traffic management systems, real-time command & control systems, training & simulation systems, intelligent building management systems, and information security and m-commerce solutions. 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 its website at 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 11,500 employees worldwide with a revenue of about S\$2.6 billion in FY 2002. ST Engg is one of the ten largest companies listed on the Singapore Exchange with a market capitalisation of about S\$5 billion.

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