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Rheinmetall at I/ITSEC 2011: breaking new ground in the world of high-tech simulation

With over 35 years' experience in providing simulation and training systems to armies, air forces and navies around the globe, Rheinmetall Defence's Simulation and Training division is well placed to meet the challenges of tomorrow. The Group's broad spectrum of simulation competencies enables it to create optimum training systems for future joint and combined missions. At I/ITSEC 2011 Rheinmetall Defence is presenting pioneering innovations in the field of flight simulation technology, live training systems for ground forces, serious gaming for high-end training as well as maritime simulation technology.

ANTares – a new dimension in tactical training

On display at I/ITSEC 2011 in Orlando, Florida, is Rheinmetall's ANTares modular tactical training system. Designed to meet the exacting needs of the military for joint and combined training, ANTares provides fully networked and interoperable air, land and maritime weapon platform simulators in a realistic, high-intensity virtual combat training environment. Supported by Rheinmetall Defence's "Rapid Generation Database", which generates authentic mission training with up-to-date reconnaissance data, the ANTares' architecture and design enable rapid deployment to the area of operations for exceptionally effective mission rehearsal. Using commercial off-the-shelf equipment and a common design for all simulated weapon platforms, ANTares' advanced system design reduces lifecycle costs by minimizing maintenance needs while assuring future technology growth potential.

At the Rheinmetall Defence stand, visitors will find a detailed model of the mobile ANTares training system, an impressive display that brings a whole new dimension to tactical training.

Land simulation: the latest generation of gunnery and combat simulators

As a global leader in live, virtual and constructive simulation, at I/ITSEC 2011, Rheinmetall Defence is showcasing its state-of-the-art live training products, including advanced MOUT training technologies. Orders have recently been placed for two such live training systems, with one going to Russia and another to the Middle East. The live training solutions will be presented together with the latest generation of virtual combat and gunnery training systems utilizing gaming technologies for advanced land forces simulation systems.

Visitors can inspect a Leopard 2 tank gunnery trainer demonstrator at the Group's stand, as well as its constructive war game simulation system, including an advanced 3D viewer and a communication systems simulator designed for higher echelon training exercises from brigade up to army level.

ANSE – a scalable, flexible naval simulation engine

Future naval operational team training must continue to take place in a comprehensively networked Fleet Synthetic Training (FST) environment – the ideal solution demands linking virtual naval simulation systems and real platform assets. To achieve this goal, naval simulators and platform systems have to conform to open international simulation standards. Drawing on over 35 years of experience in naval simulation and, most recently, the supply of a joint force simulation and test environment to the Bundeswehr, Rheinmetall Defence has now completed its “Advanced Naval Synthetic Environment” (ANSE).

ANSE is Rheinmetall Defence's scalable and flexible naval simulation engine, which combines simulator core functionality with exchangeable sensor and weapon simulation models of different fidelity and performance. It powers the simulation control layer of all Rheinmetall Defence's naval simulation systems and can be interface with real on-board systems, providing the gateway to a virtual simulation environment. Importantly, it takes into account the networking requirements of modern naval simulators, and can be interfaced to other naval, land or air environment simulators via CORBA, high level architecture or distributed interactive simulation. It constitutes a widely used mature core with a high degree of design flexibility and growth potential, resulting in a future-proof investment for meeting the training objectives of Rheinmetall Defence's current and future customers.

ANSE complies with international open simulation standards while setting a new benchmark for naval simulation excellence.

Simulation and training technology from Rheinmetall Defence: closing the gap between virtual and real

As one of the world's leading suppliers of advanced simulation and training solutions, Rheinmetall Defence has provided advanced military and civil training solutions to demanding customers worldwide. With over 2,000 systems in service worldwide, the Group offers a comprehensive array of products ranging from cost-effective computer-based training systems to advanced full-mission simulators for surface, sub-surface, air and land-based platforms. Rheinmetall Defence offers a complete range of live, virtual and constructive simulation capabilities, enabling top-quality training at all levels, from individual instruction to fully networked joint and combined exercises embracing the complete spectrum of modern warfare disciplines. Building on its unrivalled experience and know-how, Rheinmetall Defence closes the gap between the virtual and real world, providing advanced training solutions to prepare personnel for their next mission.

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