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## **Rheinmetall at I/ITSEC: LEGATUS live simulation system family sharpens fighting skills**

Simulation technology from Rheinmetall makes a decisive contribution to well-grounded, deployment-oriented training, providing troops with the best-possible preparation for carrying out their missions, a critical factor in assuring adequate force protection and favourable outcomes.

Live combat simulations from Rheinmetall take place in the open air at any training area, using original equipment and weapons systems supplemented with LEGATUS live simulation systems. Here, state-of-the-art communications technology and laser engagement simulators constitute the core elements.

During live training operations, every participant in an exercise, from individual soldiers to main battle tanks, is equipped from the start with laser sensors, transmitters and compact data transmission devices.

These devices feature a GPS satellite receiver and constantly transmit information concerning the position and status of every participant to the exercise control cell. When training for military operations in urban terrain (MOUT), special sensors track the position of soldiers even when they are inside buildings. The effects of heavy weapons fire on buildings and the troops inside them can also be simulated.

Moreover, mobile video teams accompany the participating units, transmitting imagery back to headquarters in real time. There, the complete array of data from an exercise flows together, including all voice transmissions. The position and status of all exercise participants are depicted on workstation computer monitors and large screens on a 2D/3D situation map, including video recording in real time.

All events taking place during major exercises are electronically recorded and processed for subsequent after-action review (they can be presented to exercise participants in a fixed-position auditorium or in mobile facilities in the major training area).

Rheinmetall's leading simulation technology can be customized to any specific customer requirements. A customer in the MENA region ordered a similar training centre from Rheinmetall in 2009. In 2011, the Ministry of Defence of the Russian Federation tasked Rheinmetall to supply a further installation. Together with its Russian partner, the Düsseldorf-based systems supplier is constructing a training centre in Mulino, Russia. By 2014, the Volga region will play host to the world's most advanced simulation-supported military training area, which will be able to sharpen the fighting skills of 30,000 soldiers annually.

Rheinmetall also provides significant operational support services for facilities of this type, including the German Army's Combat Training Centre (GÜZ) at Letzlingen/Altmark in Saxony-Anhalt and a mobile combat training centre for a customer in the MENA region.

At I/ITSEC 2013 Rheinmetall is displaying individual components from its LEGATUS live combat simulation system family, including the latest laser engagement simulators.

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