

Centre of Simulation and Training Technologies in Brno

VR Group, a.s. significantly participated in building up (system integration, development, facility set-up and long-haul communication design) the Centre of Simulation and Training Technologies in Brno according to Czech Army requirements

The Centre of Simulation and Training Technologies in Brno supports the training (especially for ground forces):

- battalion and brigade commander and staff training
- training of commanders up to company level
- training of units, fighting vehicle crews and infantry up to company level
- training of personnel of organizations responsible for crisis management

VR Group, a.s. realized following deliveries creating the core of the simulation centre

- Reconfigurable Simulators "Virtual Tactical Simulator" category - 10 configuration each (3 sets)
- Constructive simulation systems - OneSAF and OTB modifications (in co-operation with the SAIC company <http://www.saic.com>)
- Distributed simulation systems - DIS protocol
- After Action Review tools
- Terrain databases and 3D models
- Communication system

VR Group, a.s. provides technical support to the simulation centre, including the exercises support.

Centre of Simulation and Training Technologies in Vyskov

VR Group, a.s. significantly participated in building-up (system integration, development, facility set-up and long-haul communication design) the Department of Simulation and Training Technologies in Vyskov according to Czech Army requirements

The Department of Simulation and Training Technologies in Vyskov supports training (especially for ground forces)

- training of the unit commanders (up to the company level)
- training of the units, fighting vehicle crews and infantry up to the company level
- training of the personnel of the organizations responsible for the crisis management

VR Group, a.s. realized following deliveries creating the core of the simulation centre

- Reconfigurable Simulators "Virtual Tactical Simulator" category - 10 configuration each (16 sets)
BMP-2 Crew Simulators "Full Mission Simulator" category (total 4 sets, 3 of them on motion platforms with 6 degrees of freedom)
- BMP-2 Driver Simulator "Full Mission Simulator" category (1 set)
- Team Leader Simulators "Virtual Tactical Simulator" category (10 sets)
- Artillery Observer Simulator (LOS) "Virtual Tactical Simulator" category (1 set)
- Constructive simulations - OneSAF and OTB modifications
- After Action Review tools for the exercise management and evaluation
- Terrain databases and 3D models
- Communication system

VR Group, a.s. provides technical support to the simulation centre including exercises support.

References

Czech Army Tactical Air Force Base Caslav (CZ)

The Tactical Air Force Base is one of main combat units of the Czech Army Air Force . Its main task is to ensure defence and sovereignty of the Czech Republic air space. Training of flight, technical and support personnel is aimed fulfill this task.

VR Group, a.s. realized following deliveries (delivered by Hexagon Systems, s.r.o. before the fusion):

- L-159 Flight Simulator belonging to the "Full Mission Simulator" category
- L-159 Simulator belonging to the "Part Task Trainer" category
- Multimedia classroom for L-159 aircraft training
- Reconfigurable Simulators belonging to the "Desk Top Simulator" category (2 sets)
- Terrain databases and 3D models
- GCI simulator

Flight Training Centre Pardubice (CZ)

Flight Training Centre located in Pardubice provides complete training of the Czech Army future pilots since 2004. Pilots are trained and educated in a modern environment using multimedia tools.

VR Group, a.s. realized following deliveries (delivered by Hexagon Systems, s.r.o. before the fusion):

- Mi-17/171Sh Helicopter Simulator belonging to the "Part Task Trainer" category
- Mi-2 Helicopter Simulator belonging to the "Part Task Trainer" category
- L-39 simulator belonging to the "Part Task Trainer" category
- Terrain databases and 3D models

Air Force (Pakistan)

- Control loading system for the Cessna T-37 aircraft

Air Force (Kazakhstan)

- L-39 Flight Simulator belonging to the "Full Mission Simulator" category

MetaVR (USA)

- Building and conversion of the terrain database and the 3D models

SAIC (USA)

- Development and delivery of the modifications of simulation systems for the tactics training provided by US Government FMF funding to the Czech Army

ALION (USA)

- Participation in building of the capabilities of the modelling and simulation synthetic environment systems for Joint Chemical, Biological, Radiological and Nuclear Defence Centre of Excellence in Vyskov - analysis, development and implementation of the simulation tools, technical support in the collaboration with Alion on the EZ-Z-EZA project of USA FMF program (2008-2009)

Studies and research projects

- VR Group, a.s. actively participates in research and development projects for the Czech Republic Ministry of Defence, Ministry of Interior, Ministry of Industry and Trade and NATO. Currently VR Group, a.s. is involved into the research of using simulation technologies for the education and training of the Crisis Management System personnel and staffs.