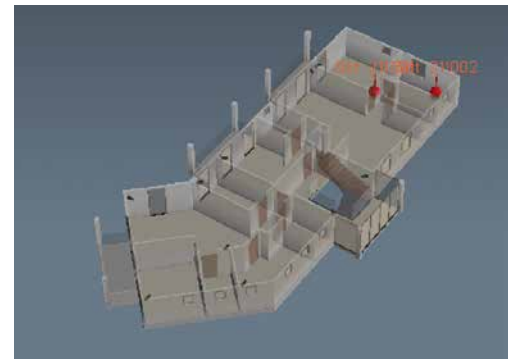


# Exercise Control (EXCON) 3D

The system of RUAG permits force-on-force training providing realistic simulation of the firing and engagement effects and real-time feedback to the units under training. The system emulates the capabilities and limitations of a wide range of deployed weapons. It tracks actions and events, collects and processes Combat Training Center (CTC) training exercise data for providing exercise control staff with instant feedback during an exercise. Recorded data allow the replay of exercises and additional reporting for evaluation purposes and after action debriefing.



Example 3D view of a building with soldiers

## The EXCON Solution

The EXCON software is an intelligent software platform used by operators and instructors to plan, conduct, control, monitor, record, replay, debrief (after-action review), and evaluate live force-on-force training up to brigade level in a CTC/MOUT environment.

### CTC Field components



### Exercise control



### MOUT components



Soldiers



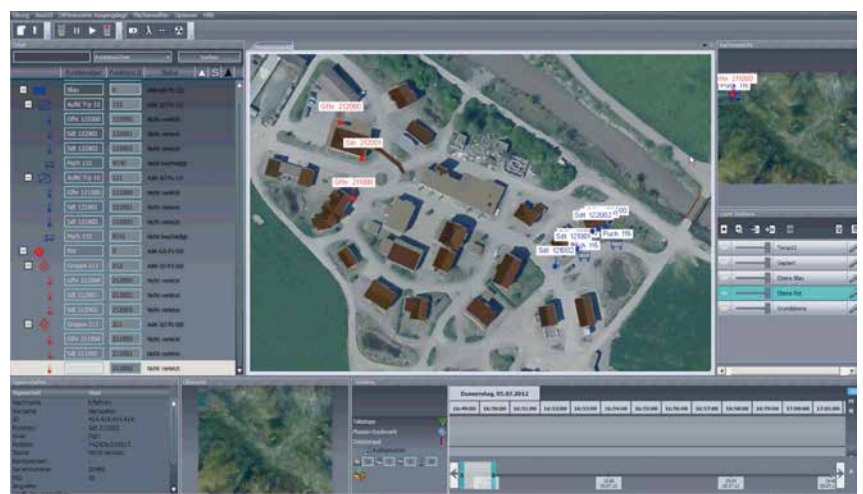
Weapons



Vehicles



Example 3D view of a building with room options



Example view of EXCON mainscreen based on human centered design principles

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## Features

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Supports exercises combined in open and urban terrain

Preparation of combat exercises with up to 8 parties per exercise

Performing CTC and MOUT exercises in parallel

Monitoring manoeuvres and engagements in detail  
(2D or 3D view)

Simulating the area weapon effects Artillery, Mines and NBCR  
contamination

Monitoring the Combat Net radio and recording the live and internal  
radio conversation

Real-time video monitoring and recording Post-exercise video  
download

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Debriefing (e.g. After-Action Review): Analysing the recorded data  
of performed exercises

Take Home Package capability for further home-based analysis and review

Interoperable with external systems using HLA and DIS interfaces

Multi-user support, multi-role support, and multi-language ability

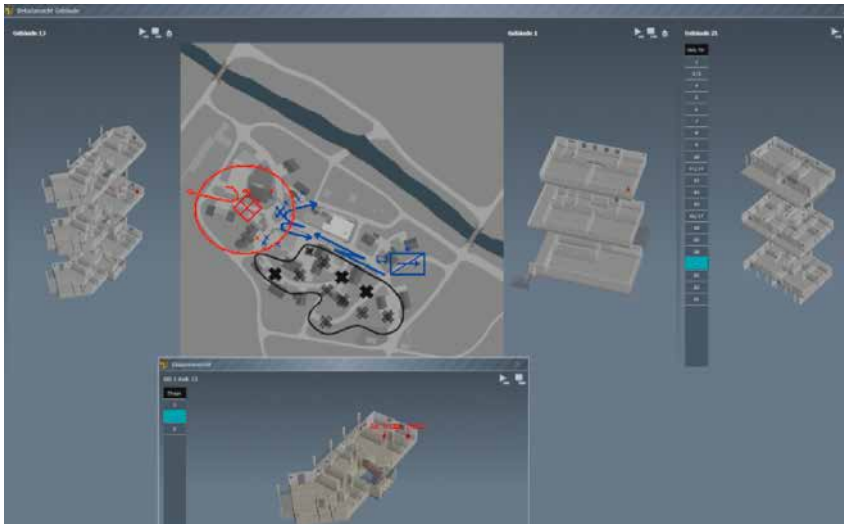
Monitoring the system integrity including automatic alarming and  
failure compensation

Robust system with high availability ensured through distributed  
and modular architecture

Scalable: easy configurable from a single laptop to large network

Ready for latest MS Windows operating systems, 64 bit hardware,  
and COTS products

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Example of a building detail view screen

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## Functions

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2D display of positions (maps geographic exact or  
abstract, satellite maps)

3D visualisation of building elements and  
overview systems.

Display and full control of the states of the participants  
of the exercise, the vehicles and building elements.

Detailed After Action Reviews are possible at all times  
in the auditorium or directly at the exercise field.

All exercise data can be exported and edited as a  
data home package.

Possibility of tactical analysis and statistics

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## Optimized tactical drawing tool

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### Functions

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Support of complex shapes by drag & drop

Support of afterwards changes on shapes

Large library of NATO symbols, lines, arrows,  
areas and facilities out of the box

Layer technology available to reduce complexity  
by creation of different views

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Example view of the drawing tool