With more than 20 years of experience in small arms training and service to military, law enforcement and civil security organizations all over the world, Thales Germany is specialized in providing simulation systems for these users. The latest development of the small arms product line is the Sagittarius Evolution simulation system. Sagittarius Evolution provides both virtual and live firing training capability for individual and unit training. It supports a wide range of training scenarios from basic marksmanship training to advanced situational training like Close Quarter Combat (CQC).

To further enhance its training value the simulation system can be networked with other systems and/or additional modules out of the Sagittarius product line such as Door Gunner Module, Vehicle Module or Boat Module. All modules can be provided on motion platforms.
**SMALL ARMS TRAINER**

**SAGITTARIUS EVOLUTION**

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### SYSTEM CONFIGURATIONS:

- Mobile system
- 4 lane collimated system
- 5/10 lane flat screen system
- Networked configurations for combined mission training and role actors

### SIMULATED WEAPONS

- Modified original weapons
- Original loading procedure and recoil close to reality
- Easy to maintain due to innovative architecture
- Huge variety of supported weapons, like:
  - Pistols
  - Rifles
  - Machine pistols
  - Machine guns
  - Anti-tank weapons
  - Grenade launcher
- Dedicated ballistic model per weapon type based on original ballistic tables
- Various weapon sensors like recoil, butt pressure, cant angle

### INSTRUCTOR OPERATING STATION (IOS)

- Easy selection of exercises based on illustrative pictures and text
- Lane view for each trainee with relevant information (e.g. target view, weapon status, weapon sensor data, controls for ammunition set and weapon jamming, training result etc.)
- Intelligent trainee management system (ITMS) allows to record the training history of each trainee
- Easy adjustment of environmental settings (24 hours day/night cycle, wind, rain, fog, snow, sand) affecting ballistics

### SCENARIOS

- Cutting edge graphics performance due to usage of CryEngine® Image Generator
- Adaption of exercise content to shooting doctrine of individual customers
- Geospecific replication of terrain preselected by the customer
- Artificial intelligence for randomized avatar behaviour

### USE CASES

- Live and simulation training in same scenario on same content

### MISSION

Military, law enforcement, customs and civil security organisations

### KEY FIGURES

- Floor space 4 x 5m
- System ready to train in 15min
- Quick change of simulation weapons

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