CBRN-Sim

Sensor Simulation Software

CBRN-Sim adds real time simulation of CBRN Ground contamination and Airborne hazards to SCIM® for Operator Sensor Integration Training.

BRUHN NEWTECH

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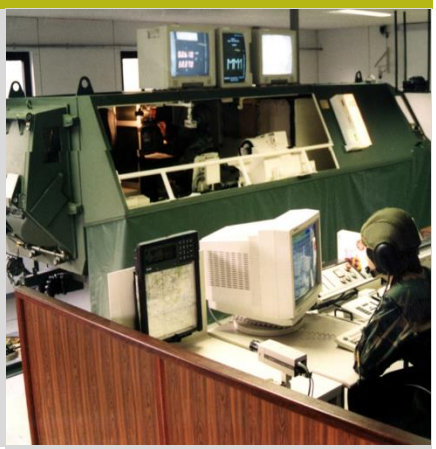
Key Features:

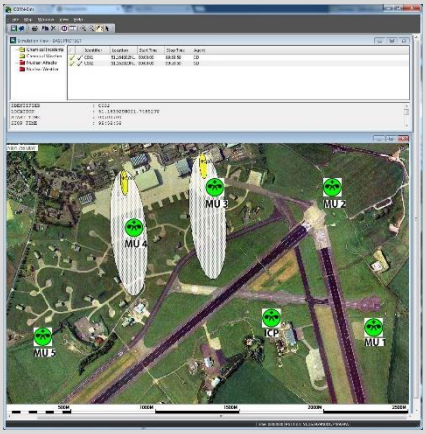
CBRN-Sim provides:

- Planning tool that allows the instructor to plan a scenario with chemical hazards including ground contamination and vapour, radiological hazards and nuclear fallout.
- Simulation executer that provides the realistic sensor readings related to a given position and time based on the simulated scenario. The position and time can be based on a simulated route or actual GPS reading.
- The ability to add materials that generate false positive results for some of the sensor types.



Enhanced Training Capability

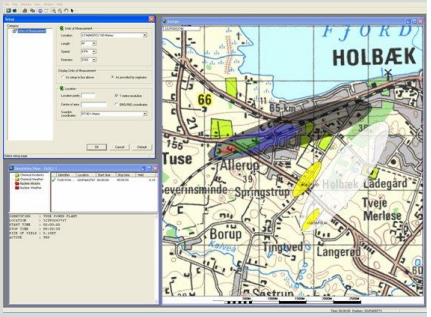
One of the key assets of the software is its ability to allow any form of training to be carried out, in the classroom or static on a platform without that platform moving into a training area. Full realism can be achieved by moving the platform in the training area and getting relevant sensor results based on crew actions. By not moving the platform this will be more of an environmental benefit and save on any platform running costs. It can also work without the actual detection sensors being switched on; this saves on valuable instrument consumables.



Sensor Interfaces

The software will use actual GPS locations if required or will use a simulated route that has to be checked. The wide range of chemical and radiological sensors supported by SCIM® can also be used in CBRN-Sim simulations. SCIM® with CBRN-Sim included will give visual and audible alarms when entering a simulated hazard environment or will alarm at the correct distances for stand-off detection. The system can be configured to ensure that when the system alarms, it sends automated messages to any one of Bruhn NewTech's hazard prediction software applications.

The simulation takes into account which commands the operator has sent to the sensor, for example to change detection libraries.



Exercise Management

Each exercise that is conducted is stored in a scenario library which can be reused or modified by the instructor. The simulation scenario is invisible to the personnel being trained. When the task or exercise is complete the instructor can use the logged information to evaluate the simulated contamination that was encountered on route and which commands the operator issued to the sensors as a result.