

# CBRN-Analysis Modules

Modules and options to extend the functionality and utility of the CBRN-Analysis application.

## Product Highlights

Modules and options to extend the functionality and utility of the CBRN-Analysis application.

### SCIM® Interface

- This interface module allows operation of the SCIM® application alongside CBRN-Analysis and make full use of the SCIM® provided sensor data within CBRN-Analysis.
- SCIM® is a software hub that provides sensor connectivity to multiple sensors, regardless of make, model and type. It provides a simplified and comprehensible display of all sensors in a CBRN network or system. SCIM® continuously captures and collects sensor data and enables formatting of that data into standard CBRN messaging formats. It also allows full sensor management alongside CBRN-Analysis.

### Enhanced CBRN Dispersion

- A number of atmospheric plume models can be used with CBRN-Analysis for more detailed hazard area predictions.
- This interface module enables interaction with these models and displays the resulting plume or dispersion model predictions within CBRN-Analysis.
- Currently supported model interfaces are for HPAC (DTRA), HAPPIE (TNO) and RIMPUFF (DTU) models.
- Note, the CBRN-Analysis Enhanced CBRN Dispersion module does NOT include supply of the model software.

### RIMPUFF Dispersion Model

- RIMPUFF is an operational dispersion model in use for assisting defence and emergency management organisations dealing with chemical, nuclear, biological and radiological (CBRN) releases to the atmosphere.
- RIMPUFF is in operation in several European national emergency centres for preparedness and prediction of nuclear accidental releases, chemical gas releases, and serves also as a decision support tool during active response to airborne transmission of various biological infections.
- RIMPUFF is a local scale puff diffusion model developed by DTU Wind Energy, Technical University of Denmark.

### NFFI Interface

- The NFFI (NATO Friendly Force Information) module enables automatic update of units in CBRN-Analysis.
- The module is using the NFFI IP2 protocol in the unicast mode.

### CAX Player

- The CBRN-Analysis CAX (Computer Assisted Exercise) Player is an automated training module that can be used to train users in the operation of CBRN-Analysis, using Bruhn NewTech supplied pre-defined exercises.
- The CAX Player module provides the capability for the user to conduct realistic software-based exercises individually at a time and location of their choosing, based on set CAX exercises.
- CAX exercises are written by Bruhn NewTech's CBRNe subject matter experts and provided to CBRN-Analysis customers 5 times per year.

### GIS Web Services Interface

- The CBRN-Analysis GIS Web Services module supports access to GIS data from an Open Geospatial Consortium (OGC) Web service such as NATO Core GIS.
- This module allows access to WMS data that may be available to the user. The user can select any required WMS data layers and link these to new or existing maps in CBRN-Analysis, enabling use of maps that may be available on a network.

### Publish CBRN COP

- The CBRN-Analysis Publish CBRN COP (Common Operational Picture) module enables the operator to export hazard warning areas from CBRN-Analysis to other Information Management systems, such as Battle Management, C2, C4 or other Mission Management systems.
- CBRN 3 and CBRN 5 hazard warning areas are published as overlays in standard KML or SLF format. The benefit of using a drawing format like KML or SLF is that the receiving system does not need to implement any analysis of the ATP-45 message formats, which would need continuous updating as standards evolve.

### Language

- CBRN-Analysis is available in English as default but can be modified to another specific language.
- With the Local Language Support module CBRN-Analysis is provided in the local language selected by the customer.