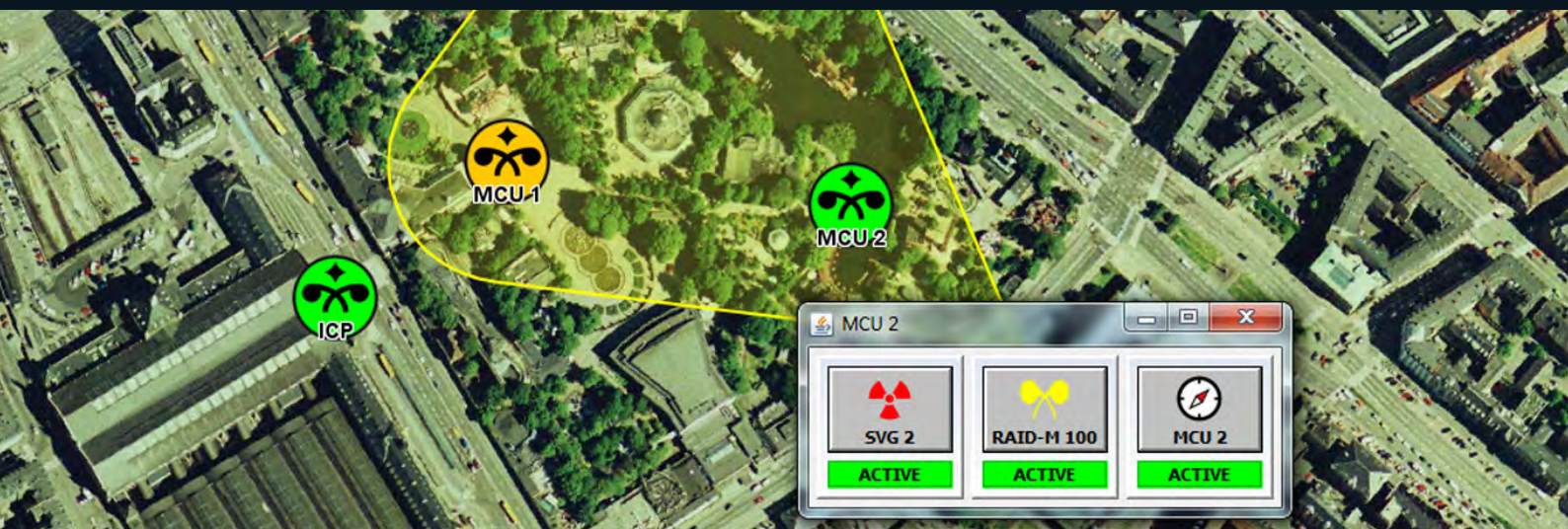


CBRNE-Frontline

Incident Management for Non-Specialists



Key Features

- Full situational awareness of the CBRN picture
- Calculation of NATO approved Hazard areas for Chemical and Radiological incidents
- Data entry based on a simple report format which are automatically converted into NATO approved formats
- Risk assessment by registration and what-if analysis of known or potential hazards within the area of interest based on ATP-3.8.1
- Sensor integration to a wide range of CBRNE detectors and instruments by using the integrated SCIM® technology
- Compatible with a wide range of raster, vector and satellite image formats and support links to OGC web services with WMS data
- Full interoperability with Bruhn NewTech's core product, CBRN-Analysis
- Support for HPAC (DTRA), HAPPIE (TNO) and RIMPUFF (DTU) models for Risk Assessment
- Support for use with Bruhn NewTech's HazKey® System as complete turn-key solutions for mobile and fixed CBRNE Detection and Monitoring
- National Language Support can be provided

Product Highlights

CBRNE-Frontline is a CBRNe Incident and Information management application for use in a wide range of situations requiring accurate incident and hazard prediction information to be made available to initial responders as rapidly as possible.

CBRNE-Frontline is intuitive and easy to understand, removing some of the complexities associated with CBRNe hazard prediction and information management. This ease of use makes it an ideal tool for non-CBRNe specialists.

Full Sensor Integration

- Connectivity to multiple CBRNe sensor types is integral to CBRNE-Frontline. The real-time status and management of all sensors in the CBRNe network can be achieved through Bruhn NewTech's SCIM® software hub, embedded within CBRNE-Frontline.
- The sensor integration is make & model independent ensuring that different sensors and instruments can be connected, including legacy sensors.
- An un-cluttered and easy to use display of all connected instruments aids effective and efficient sensor state awareness and management.

“What-if” scenarios for pre-emptive planning

- CBRNE-Frontline provides the user with the ability to set up defined 'risk objects' within the software. The 'risk object' can be a facility, a venue or location that may be at risk from a CBRNe incident, either as a target or as a known repository for hazardous materials. All known data about a 'Risk Object' can be stored in CBRNE-Frontline to create a knowledge base for planners and first responders. The 'risk object' and any associated hazard area is shown on the map in CBRNE-Frontline.
- The software aids preparation through pre-emptive exercises to evaluate the impact of a possible incident occurring. This 'what-if' scenario generation is a very powerful tool for effective planning; and facilitates time critical decision making and response.

Low training burden

- CBRNE-Frontline is intuitive and easy to understand, removing some of the complexities associated with CBRNe hazard prediction and information management according to standard NATO formats and procedures.

Built-in briefing generation

- Briefing reports can be automatically generated as documents to provide incident and risk object information for briefing commanders or other stakeholders. Information includes any hazards detected, map-based predicted hazard areas and any checklists and procedures that apply. The report also links information provided by the Emergency Response Guide (ERG) on the hazardous materials with appropriate handling and response considerations.
- Users can include customized operating procedures and checklists into the report template providing a complete information pack within a very short time of the incident.

Incident reporting and calculation of hazard areas

- Incident reports are generated automatically using the combined sensor data received, or via manual input at the command post. The sensor information collected enables calculation of predicted hazard areas, based on both ATP-45(E) and ERG (emergency response guide) templates. These are presented on the map, indicating the 'worst-case' impact of the CBRN hazard on the ground, allowing responders to take appropriate action to minimise casualties.

Clear GIS-based operation

- Location and tracking of all connected sensors and assets via an intuitive map-based GUI, providing real-time status.
- Interaction with all connected sensors and instruments is possible via direct access through the map-based sensor icons.
- CBRNE-Frontline is also compatible with a wide range of mapping and satellite imagery formats.

Product Specifications

MCU-1

The CBRNE-Frontline package consists of

- CBRNE-Frontline DVD incl. a User's Reference Guide
- Hardware key (if required)

Note - CBRNE-Frontline is an Export Controlled software application covered by category ML21.a and ML21.b.3 in EU directive 2014/108/EU.

Technical Specifications

Hardware Requirements

Components	Requirement
Processor	Intel Core-2 or AMD Dual Core or higher, 1.5GHz or faster
Free memory (after OS loaded)	≥1.5 GB
Graphics/memory	≥32 MB, ≥16-bit colours
Screen	≥1024x768
DVD-drive	Yes – for installation
Hard disk space (Application and CBRN data)	≥1 GB
Hard disk space (Map)	At least 5 GB (depends on maps to be used)
CAX module	750 MB
USB port	If dongle (security key) is required
Network adapter	Required for communication

Note - If the program must run simultaneously with other applications, the requirements should be extended accordingly.

Software Requirements

Operating System (OS)	Service Packs
Windows 7 Pro, 32-bit or 64-bit	The latest Service and Security Packs must be installed. Warning - If RIMPUFF module is installed, OS must be 64-bit
Windows 8.1 Pro, 32-bit or 64-bit	
Windows 10 Pro, 64-bit	

Email Requirements

The optional e-mail communication capability is based on the MAPI interface supported by the following e-mail software

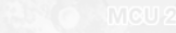
MAPI Interface	Service Packs
Microsoft Outlook 2007, 32-bit	The latest Service and Security Packs must be installed.
Microsoft Outlook 2010, 32-bit	
Microsoft Outlook 2013, 32-bit	
Microsoft Outlook 2016, 32-bit	

Other Requirements

The briefing material capability is based on a Microsoft Word template. The following Microsoft Word versions are supported

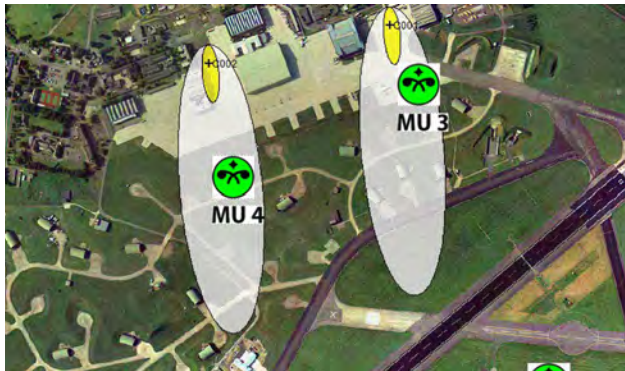
Document Interface	Service Packs
Microsoft Word 2007	The latest Service and Security Packs must be installed.
Microsoft Word 2010	
Microsoft Word 2013	
Microsoft Word 2016	

Related Products



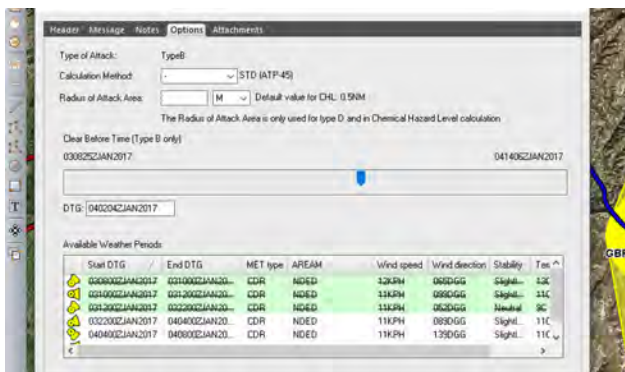
SCIM®

- SCIM® stands for “Sensor Connectivity Information Management” and is a software hub that provides sensor connectivity to multiple sensor types and brands in a single and effective display.
- The system allows collection of sensor data and formatting of that data into standard CBRN messaging for further dissemination via built-in communication applications. The software enables the capture of sensor data that can then be transmitted for further investigation. SCIM® is futureproofed as it allows any sensor or instrument to be replaced or added as technology advances.



CBRN-Sim

- CBRN-Sim adds real time simulation of CBRN Ground contamination and Airborne hazards to SCIM® for Operator Sensor Integration Training.
- CBRN-Sim is a planning tool that allows an instructor to plan a scenario with chemical hazards including ground contamination and vapour, radiological hazards and nuclear fallout.
- CBRN-Sim provides the ability to add materials that generate false positive results for some of the sensor types.



CBRN-Analysis

- CBRN-Analysis is an advanced, off-the-shelf software-based CBRN Information Management Software Application that includes Hazard Prediction and Warning and Reporting (W&R).
- It provides commanders with rapid and accurate information to increase their CBRN situational awareness within an area where CBRN materials may be used.
- CBRN-Analysis effectively supports and enhances risk-management in all phases of an operation, both in the planning and pre-deployment phase, in-theatre and in the post-conflict or recovery phase.

Additional Information

More information can be found at: www.bruhn-newtech.com.