

# NBC-Analysis/CBRN-Analysis

## Incident Management for Military Commanders

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NBC-Analysis is a commercial-off-the-shelf (COTS) CBRN risk-management software solution. It is designed to provide military commanders with rapid and accurate information to increase their understanding of the CBRN situation on the battlefield. It effectively supports and enhances incident-management in all phases of an operation, from pre-deployment to deployment and onto the post-war recovery phase. Being the first warning and reporting program that will comply with the future NATO CBRN procedures (ATP-45(D)) is now signified by NBC-Analysis becoming CBRN-Analysis in 2011.



The current NBC-Analysis can be fielded as a standalone application or as part of an integrated communication and sensor network. It can also be incorporated within military CBRN sensor platforms.

With over 8,000 users, NBC-Analysis is currently in operational use in the majority of NATO and Partnership for Peace (PfP) nations.

NBC-Analysis provides a wide range of CBRN Risk Management capabilities including:

- ATP-45(C) and AEP-45(B) calculations
  - Based on observations and sensor results NBC-Analysis calculates the NATO approved Hazard Areas and Contaminated Areas
- Situational Awareness of full CBRN Picture
  - Map based display of CBRN information and own assets
  - Overview of assets at risk
- Optional interface to dispersion models providing detailed hazard estimates
  - Support for HPAC and HAPPIE models
- Advanced Exercise Planning

### References:

UK MOD CBRN Warning and Reporting Capability Upgrade:

Phil Strudley, UK MOD: "A capability that fully meets the user requirements has been delivered ahead of schedule and at a lower than originally anticipated through-life cost."

The UK MOD Director of Equipment Capability (CBRN) said "We believe that this solution offers us the warning and reporting capability, in a timely manner that we require. It ensures that the UK remains compliant with the latest NATO standards."

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## Key Features

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### Operational Management

The software automatically calculates the CBRN predicated area and can quickly display that information on a map to the operator. The same data is used to identify key interest areas and units at risk.

### NATO Compliance

NBC-Analysis complies with the latest NATO standards. These include NATO STANAG 2103 ATP-45(C) and STANAG 2497 AEP-45 (B). NBC-Analysis is continuously updated to conform to these rapidly changing standards. The software's compliance to the NATO standard is independently verified to ensure it meets the correct level of performance. The next version will be CBRN-Analysis™ version 12, which complies with ATP-45(D) and AEP-45(C).

### Lower total life cycle cost

Support, Maintenance and Upgrade Agreements (SUMA) are available for NBC-Analysis Standard. The SUMA guarantees inclusion of future ATP-45/AEP-45 updates. This achieves continued future compliance at a known cost.

### Reduced procurement risk

NBC-Analysis can be fully interfaced and integrated across platforms, command control systems, and communication infrastructures. Integrated versions are available off the shelf for C2PC or as a Web Service (Service Oriented Architecture). Low risk sensor integration. Proven integration to full sensor suite of CBRN-ShipSafe and CBRN-Recon. NBC-Analysis can be seamlessly upgraded to C4I-integrated versions.

### Situational awareness

NBC-Analysis is designed to provide customers with rapid and accurate information to help increase their situational awareness of the battlefield and enable informed decisions for saving lives, protecting assets and maintaining efficient operations.



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