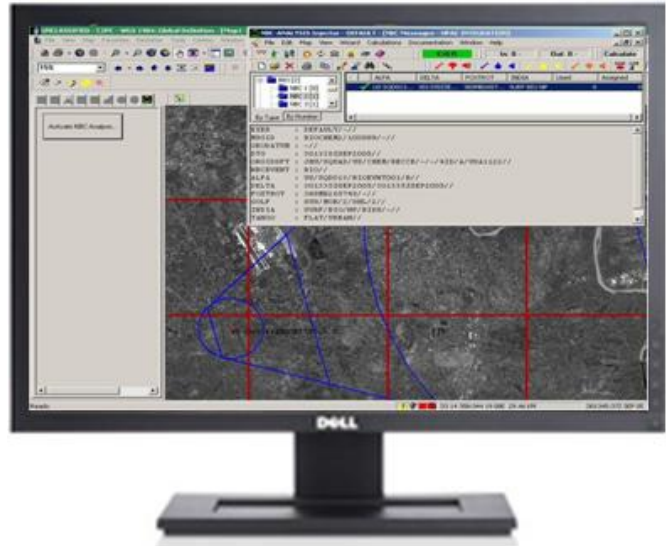


HazCore™

Hazard Calculation solutions for existing Command & Control software systems

What is the solution?

HazCore™ will provide current or new Command & Control systems with the capability of managing any CBRNE or hazardous material related incident or accident. Whether, that is by civilian response to an emergency or dealing with terrorist/military activity. HazCore™ is a COTS (Commercial-Off-The-Shelf) solution for integrating hazard calculations. By identifying customer requirements and working jointly with all stakeholders involved, Bruhn NewTech can provide the required solution. By offering a standard web-service interface, the integration is simplistic and the result provides an easy to operate, easy-to-understand capability that gives the users improved situational awareness on which to base their decisions.



The HazCore™ engine provides:

A collection of the calculation components used in Bruhn NewTech's Hazard prediction software products.

The HazCore™ Web Service wrapper:

Wraps the HazCore™ engine as a web service.

The introduction of this solution onto any Command & Control system will provide a competitive advantage.

HazCore™ provides the capability to wrap hazard calculation components into an existing application to enhance the potential use of that system. Most of the interface considerations of the hazard calculation engine will be on a case by case basis. Interacting with the communication and security protocols that the existing system already uses will also have to be considered.

Reference:

Bruhn NewTech is involved in a UK Resilience project known as FiReControl. FiReControl, which is run by the UK Communities and Local Government (CLG), has been established to create nine Regional Control Centre's (RCCs) throughout the UK. Working in conjunction with the Lead System Integrator, EADS DS UK, Bruhn NewTech, will be responsible for the provision of their hazard prediction calculation core software to the RCCs.

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Key Features

Calculation Engines

HazCore™ provides two main sets of calculations, military Weapons of Mass Destruction (WMD) hazard calculations based on the current NATO standards for warning and reporting. The other set is civilian calculations based on the North American Emergency Guidebook for Toxic Industrial Materials (TIM) including Toxic Industrial Chemicals (TIC). Sub-components are also available to provide explosive calculations and calculations for single point releases of war chemical weapons. Scalability is a key requirement available within the HazCore™ product, allowing the customer to combine calculations together i.e. placing TIM together with explosive calculations or combining military and civilian calculations into one set.

Software Architecture

The calculation engines can be written in a multitude of languages to allow integration into stand-alone, C2 through to C5I, plus web-based Incident or Command and Control systems. HazCore™ is platform independent and has the ability to run on a

wide range of different Operating System (OS) platforms including Windows, Linux, Sun Solaris and many others. For HazCore™ to work effectively as a 3rd Party add-on, the host system should be able to interact with Simple Object Access Protocols (SOAP). Although complete bespoke solutions are available upon request.

Future Proofing

Standards are constantly changing within the international documentation that is used to provide the backbone of the calculations within HazCore™. Bruhn NewTech consistently updates their calculations to ensure they reflect the most current information available. Being compliant to these standards allows HazCore™ to be the most effective hazard calculation module available.

Financial Benefits

Offering HazCore™ permits a cost reduction in providing supplementary functions to established solutions that require a more effective Incident Management or Command and Control system.



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