



THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

I-TRACE

*Integrated Tactical Rapid
Assessment of CBRN Environment*

Terrorism is a stark reality facing the Security Services and is one that has changed both in scale and nature from that previously experienced. The willingness of groups and individuals to cause mass destruction and death to the general public is an ever-present threat to the population and the infrastructure of any Country. Furthermore, the ability of terrorist organisations to achieve this through the use of Chemical, Biological, Radiological and Nuclear (CBRN) materials presents a challenge to which Security Services around the world must respond.

CBRN attacks, either isolated or co-ordinated, can cause mass fatalities and serious long-term disruption that may last for months or even years. Even a small-scale incident will have implications and effects out of proportion to the immediate effects of the attack itself.

The Northrop Grumman Integrated Tactical Rapid Assessment of CBRN Environment (I-TRACE) capability provides a flexible multi-layer solution for the monitoring of a CBRN incident, the collection of relevant CBRN data which can be provided to experts at their facilities, and the provision of analysed data to authorised Users through a web-portal.

The versatile architecture and scalable configuration of I-TRACE makes it suitable for use in a wide range of configurations across a range of environments. In the man-portable variant, flexibility is offered that enables transportation in a vehicle (land, sea or air) of the users choice and deployment in confined or in-accessible locations. If required I-TRACE can be easily integrated into a host platform without the need for major modifications to the platform structure.

The system is designed to take advantage of the ubiquity of web browsers thus allowing any Users, with access rights, in the Wide Area Network access to the data for manipulation, or analysis for those who have an expert role to play e.g. UK Dstl. Where appropriate, a

'read' capability is provided for those Users who require access to the data to inform their decision making processes. The data source is anticipated to be from a number of sensors including acoustic, PIR, IR, CCTV, meteorological, and CBRN. In addition, the extensible architecture allows additional Northrop Grumman applications e.g. I-TaCCS, and third-party applications e.g. OptiMetrics Inc 'ADASHI' (CBRN Analysis), Equivital (personal health monitoring) to be incorporated to provide mission specific services.

Our Team can address all of the Through Life Capability Management (TLCM) aspects of I-TRACE, including the provision of tailored training packages, logistic and maintenance support, infrastructure support and doctrine development.

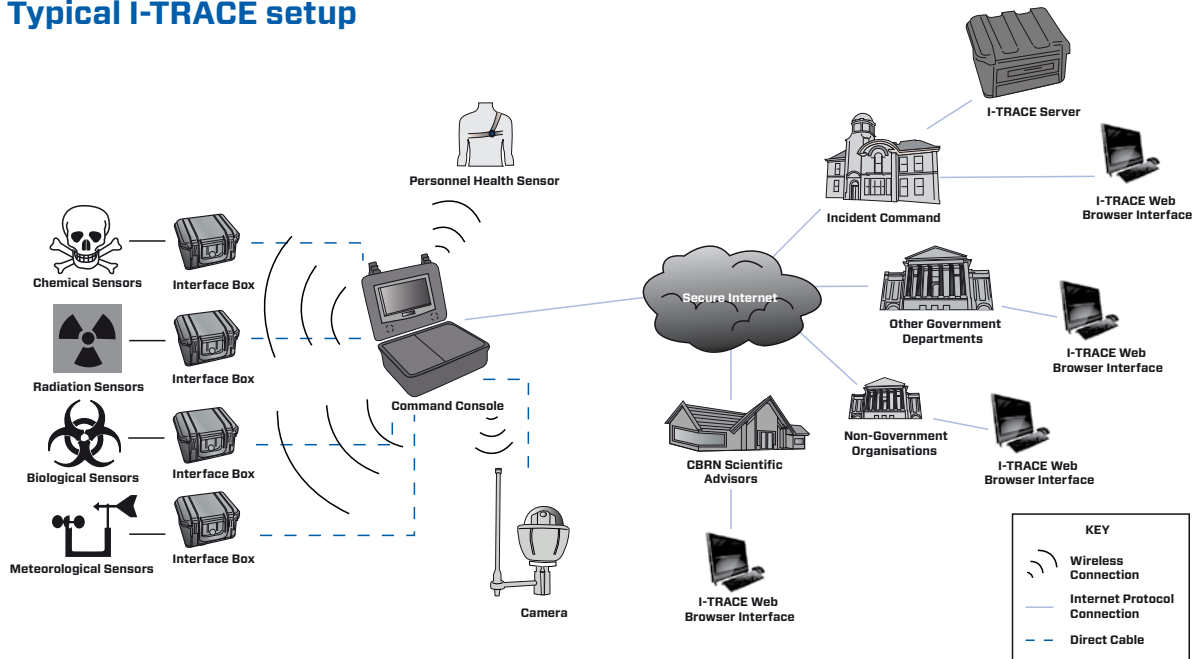
Features

- Intuitive Human Machine Interface (HMI)
- Graphical display of sensors (location, serviceability, data) and map based symbology
- Integration of a range of sensors to create a single common truth, e.g. meteorological, personal, CBRN
- Vehicle mounted or man-pack configurations available
- Extensible and flexible architecture
- Data recording for auditing at a later date
- Fixed Formatted Messages

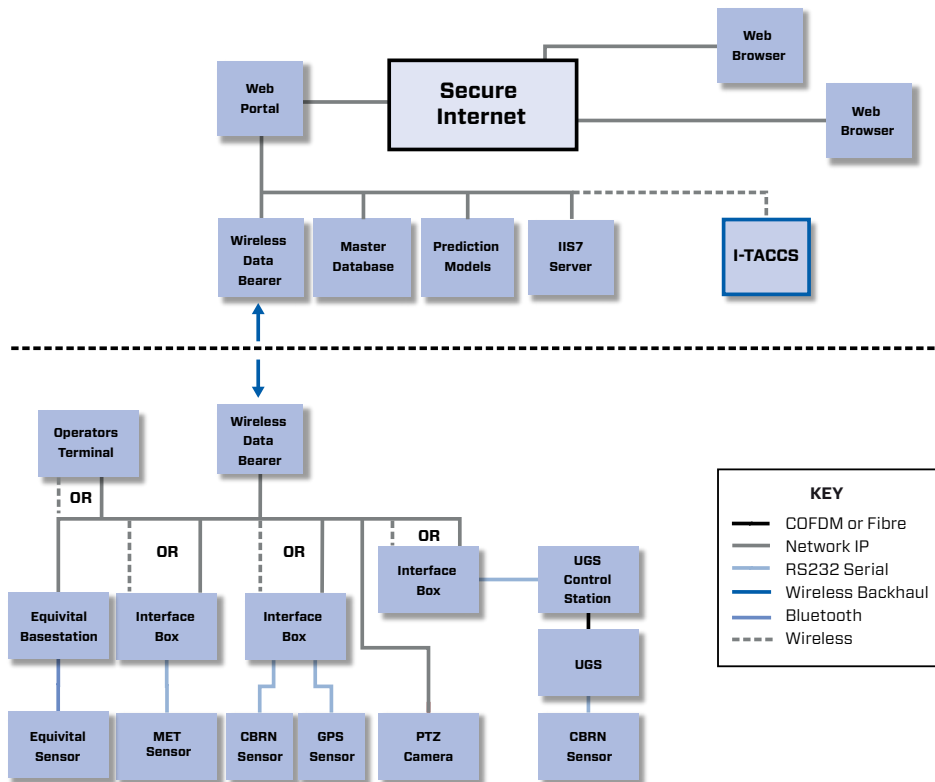
Benefits

- Provision of local situational awareness that can be shared with all authorised Users
- Easily interfaced to third party applications e.g. hazard analysis software, personal monitoring equipment
- Man-portable version allows ultimate in deployment flexibility
- Independent of sensors selection made by the User
- Controlled access to information via a web browser

Typical I-TRACE setup



I-TRACE system architecture



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