SAAB

CBRN AWR SYSTEM
AUTOMATIC WARNING AND REPORTING

The Saab Automatic Warning and Reporting System, which consist of both hardware and software, is designed to provide early warnings to units and personnel on the battlefield. The decision support module helps the operator make fast and accurate decisions, which is a key factor in limiting the effects of CBRN threats.





SYSTEM

The system consists of AWR nodes, alarm units and sensor nodes. The sensor nodes are hardware connection points for sensor devices. The alarm units are devices for issuing sound and visual warnings. The AWR node is a software for monitoring, displaying, controlling and analyzing the AWR information. The AWR node software can be installed at headquarters, camps, vehicles and hand-held computers that require the ability to receive warnings and reports regarding the existence of dangerous substances in the area.

AWR SENSOR NODES

The AWR sensor nodes are hardware connection points for sensor devices; meteorological, chemical, biological, radiological, positioning, video etc. The AWR sensor nodes are modular, allowing users to change the sensor configuration over time depending on current threats. It also prolongs the lifetime of the system allowing future sensors to be integrated.

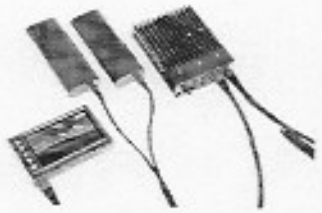
AWR sensor nodes can be stand-alone, mounted onto vehicles or buildings, or integrated in soldier systems. The alarm units can be stand-alone or deployed together with the sensor nodes. The sensor nodes and alarm units are designed for military use in harsh environments, being robust, weather protected, EMC protected and protected against HPM.



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RUGGEDIZED COMPUTER HARDWARE

The AWR software is independent of the computer platform and can be installed on COTS computers. However, if the system is to be used in a tough environment we recommend using ruggedized hardware such as the computer systems offered by Saab.



CBRN SITUATION PICTURE

The Saab AWR software, which supports international standards like ADatP-3 and JC3IEDM in order to exchange warnings and reports with other coalition forces, includes applications for:

- Joint planning and decision support
- Real time sensor monitoring and tracking
- Control, configuration and test of nodes and sensors
- Warnings and reports management
- Establishing geographical fences to protect and warn personnel in and near dangerous areas
- Calculation of warning areas according to ATP-45 and AEP-45
- Decision support to be able to establish early local warnings

RELIABLE AND CONSISTENT INFORMATION

Internally, independent of communication medium, Saab AWR information exchange mechanism uses a variety of techniques and functions to maintain the best possible information consistency at varying bandwidths and intermittent connectivity.

- Automatic data replication – updates are automatically sent to all neighbors
- No single point of failure – data available at all AWR nodes
- Information filtering – control what is sent over the air
- Handles loss of communication – AWR nodes automatically synchronize
- Bandwidth optimization – minimizes what is sent over the air

OPEN SOURCE SENSOR INTEGRATION

The Saab AWR System has a reliable, modular and scalable architecture built on an open generic software platform, enabling easy integration of sensors from all vendors. Saab's AWR software platform is based on Safir BMS, which is designed to meet the communications requirements of today's battlefield. Parts of the Safir platform (www.safirsdk.com) are Open Source under the GNU/GPL license agreement, which enables greater independence for the customer.

Integrating a new sensor (sensors and software) to a system can easily be achieved using the open interface towards external data sources. Internally within the system the sensor data is mapped into the information model and automatically made available to all consumers of the information, regardless of their location.

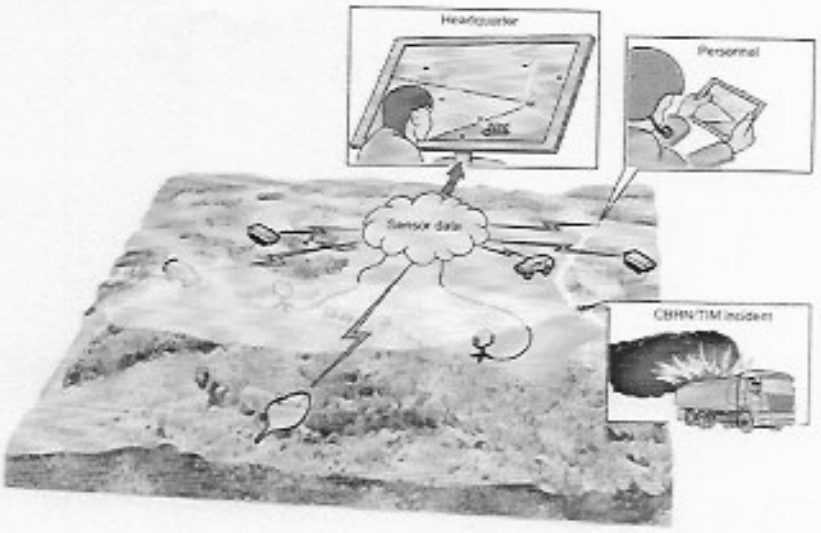
APPLICATION STANDARDS

The following standards apply to the Saab AWR system:

- TIM warning in accordance with STANAG 2229
- Information structured according to JC3IEDM
- Applicable versions of ATP-45 (STANAG 2103) and AEP-45 (STANAG 2497) are used for warning and reporting
- Reports are sent in ADatP-3 format (STANAG 5500)
- The software is designed to be part of other C2 system, which means that a service oriented architecture (SOA) is used
- The system handles information that is classified as secret/restricted

ILS

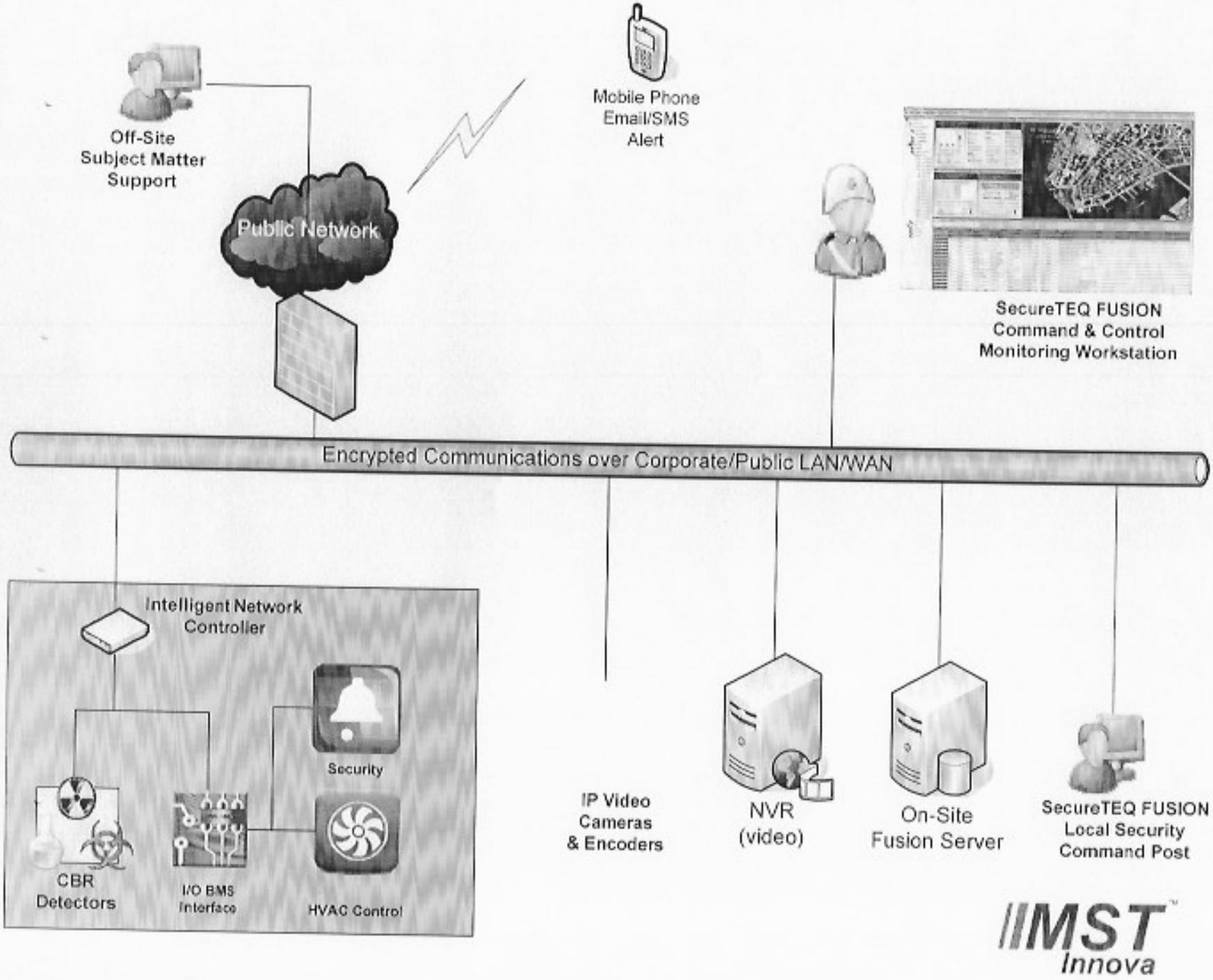
Saab can offer a variety of ILS solutions, from handling the total AWR ILS solutions to handle parts of an ILS solution.



Specifications subject to change without notice.

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Off-Site
Subject Matter
Support
Mobile Phone
Email/SMS
Alert
Public Network
SecureTEQ FUSION
Command & Control
Monitoring Workstation
Encrypted Communications over Corporate/Public LAN/WAN
Intelligent Network
Controller
Security
CBR
Detectors
I/O BMS
Interface
HVAC Control
IP Video
Cameras
& Encoders
NVR
(video)
On-Site
Fusion Server
SecureTEQ FUSION
Local Security
Command Post
IMST
Innova

Patents Pending

THREAT SENSOR COMMAND CENTER PLATFORM

FUSION CBR™ is an intelligent early warning threat detection system. FUSION CBR™ provides a real-time dashboard view of distributed IP network enabled chemical, biological, radiological, video and alarm sensors for the protection of high value facilities or infrastructures.

Chemical, Biological, Radiation Environmental Monitoring

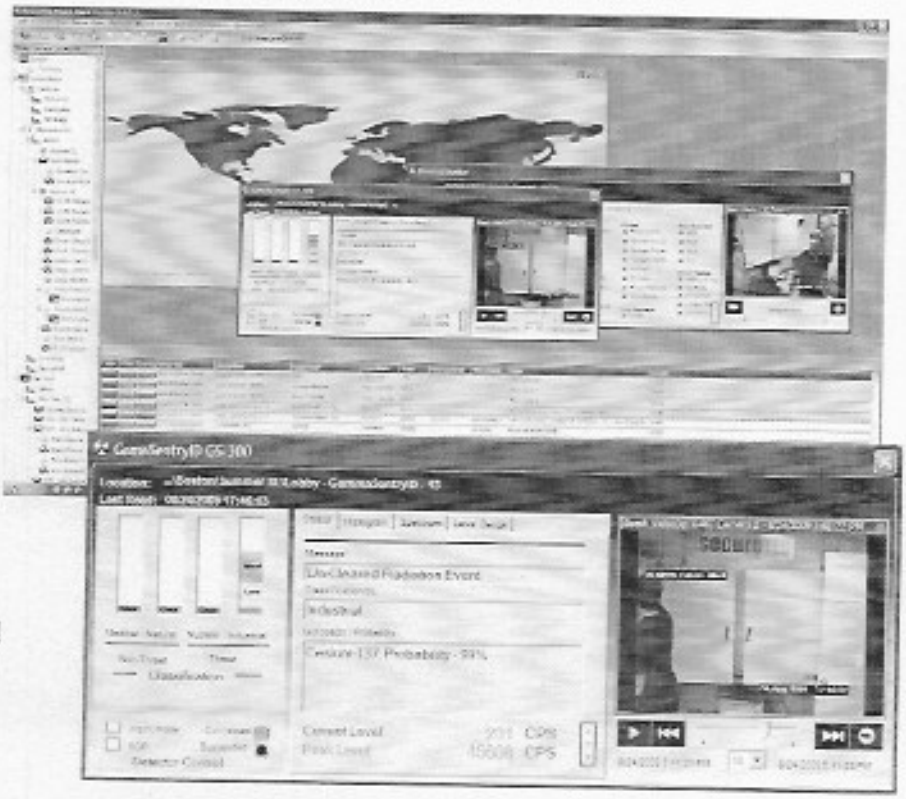
Leveraging "best in class" CBR threat detection technologies and a facilities BMS/HVAC system, the FUSION CBR system can detect, identify, verify and provide an automatic or manual counter response to intentional or un-intentional contaminant threats.

Integrated Standard Operating Procedures (SOP's)

FUSION CBR SOP's are by contextual driven Standard Operating Procedures embedded within FUSION's alert monitoring window.

SOP's provide security personnel with fast, pre-planned, detection response protocols that assist in the elimination of high regret actions.

Detect, Indentify, Verify & Mitigate



Intelligent IP Video & Alarm Monitoring

Our robust IP video surveillance & alarm monitoring capabilities provide security personnel critical notification and verification tools.

Embedded intelligent video options provide complex automatic rules based anomaly alerting such as virtual trip wire (fence) violations, human behavior, illegal parked cars and object left behind.

Open Architecture

FUSION CBR's unique IP networked distributed intelligence system architecture offers complete integration flexibility for fast seamless compatibility with "best-in-class" detectors and IP video surveillance cameras. FUSION CBR leverages the power of Microsoft's .NET framework for a truly open architecture solution.

ERROR: undefined
OFFENDING COMMAND: clipsave

STACK:

CBRN Dedicated System Software

Avem o problema softul CBRN Analysys furnizat de Bruhn Newtech este co ercializat în România de Romteh Srl concurenta noastră în mod exclusiv.Cei de la armata folosesc acest soft și versiunile lui cele mai recente .Ce dileri gasim în Grecia Italia Cehia Slovenia Polonia care ne pot face urgent o oferta de soft urgent.Te rog o documentare cu nume adrese versiuni noi de soft etc.Urgenta urgentelor vorbește cu Nelu eu cu Somoghi

Trimis de pe dispozitivul meu Samsung

-------- Mesaj original --------
De la: alexandru.iordache@stimpex.ro
Date: 08.12.2016 22:11 (GMT+02:00)
Către: Marcel Istrate <marcel.istrate@stimpex.ro>
Subiect: Soft CBRN

Buna seara,

Va trimit o lista cu linkuri de diversi producatori de soft/sisteme
CBRN.

1) Burn Newtech: http://www.bruhn-newtech.com/
2) NBC Warn: http://www.nbcwarn.com/
3) Thales:
https://www.thalesgroup.com/sites/default/files/medias/documents/Thales%20CBRN%20Brochure%20uk%20062016.pdf
(nu stiu daca produc soft sau sisteme si folosesc softul de la altii)
4) SAAB:
http://saab.com/globalassets/publications-pdfs/support-and-services/cbrn/saab_cbrn_awr_system.pdf
5) MST INNOVA: http://www.mstinnova.com/fusion-cbrn.html
6) Environics:
http://www.environics.fi/product-categories/cbrn-dedicated-system-software/
7) MILYAZ: http://www.milyaz.com.tr/TCNBR.html