

# Base Protection System



**Working to become a dependable partner of choice**

BAE Systems Insyte's joint command & information systems solutions give decision makers the information to make mission critical decisions before opponents can react, minimising risk to our forces and creating greater operational effect.

**Overview**

The integrated Base Protection System capability protects personnel and equipment. Its modular design is tailored to operational requirements by integrating sensors and effectors through a user friendly command & control (C2) system.

Information from a wide range of sensors is fused to provide situational awareness, allowing the threat to be engaged and neutralised.

When integrated with Oerlikon Contraves 35mm Skyshield gun the C2 system delivers an effective counter to rockets, artillery & mortar (RAM) threats. It can also monitor activity in identified risk areas and propose response actions dependent on the security level.

**Command & control (C2)**

Effective C2 is at the heart of our Base Protection Systems. It enables Commanders to monitor a situation 24/7 and respond appropriately, by providing:

- Force operations facilities for planning, tasking, and supporting the system units
- Situation awareness to compile a tactical picture and identify/classify tracks within it, disseminate threat/early warnings and detailed picture information as appropriate
- Engagement operations facilities for threat assessment and assignment of sensors and effectors, to investigate and neutralise the threat. Pre-programmed response actions can be incorporated against specific threat actions.

**Sensors**

The C2 fuses data from long, medium and short range radar sensors including man-portable ground surveillance radar. Data from electro optic (EO) and infra red (IR) systems as well as unattended ground sensors is represented as tracks in the tactical picture and linked to alarms with pre-programmed responses.

**Effectors**

Oerlikon Contraves Skyshield gun system and 35mm ahead air burst munition (ABM) was selected and integrated as the best-in-class counter- RAM gun system available off-the-shelf.

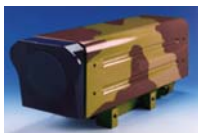
The unique muzzle, programmable Ahead ABM and dual role surveillance & tracking radar provide the optimum solution to RAM and other air threats as well as ground threats.



Unattended ground sensors



BAE Systems Command & Control



TV camera



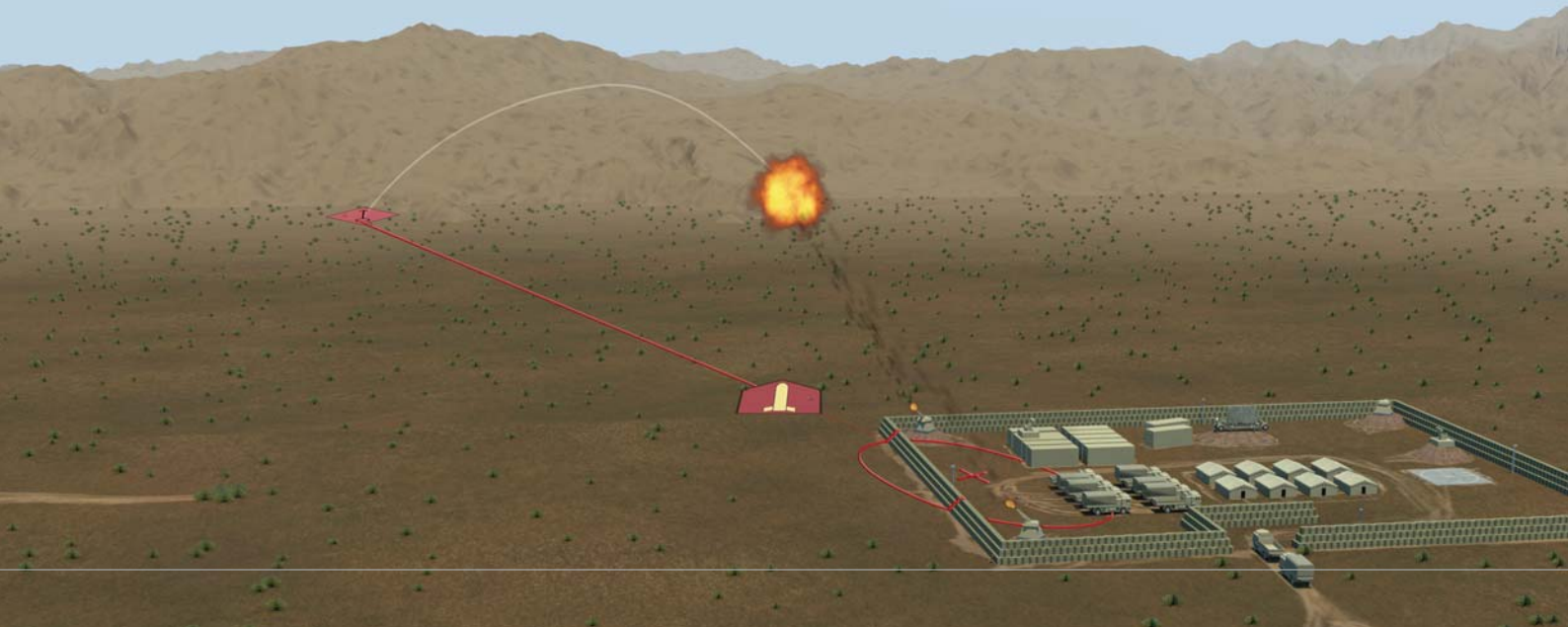
Oerlikon Contraves 35mm Skyshield system



IR camera



Ground surveillance radar



**Features**

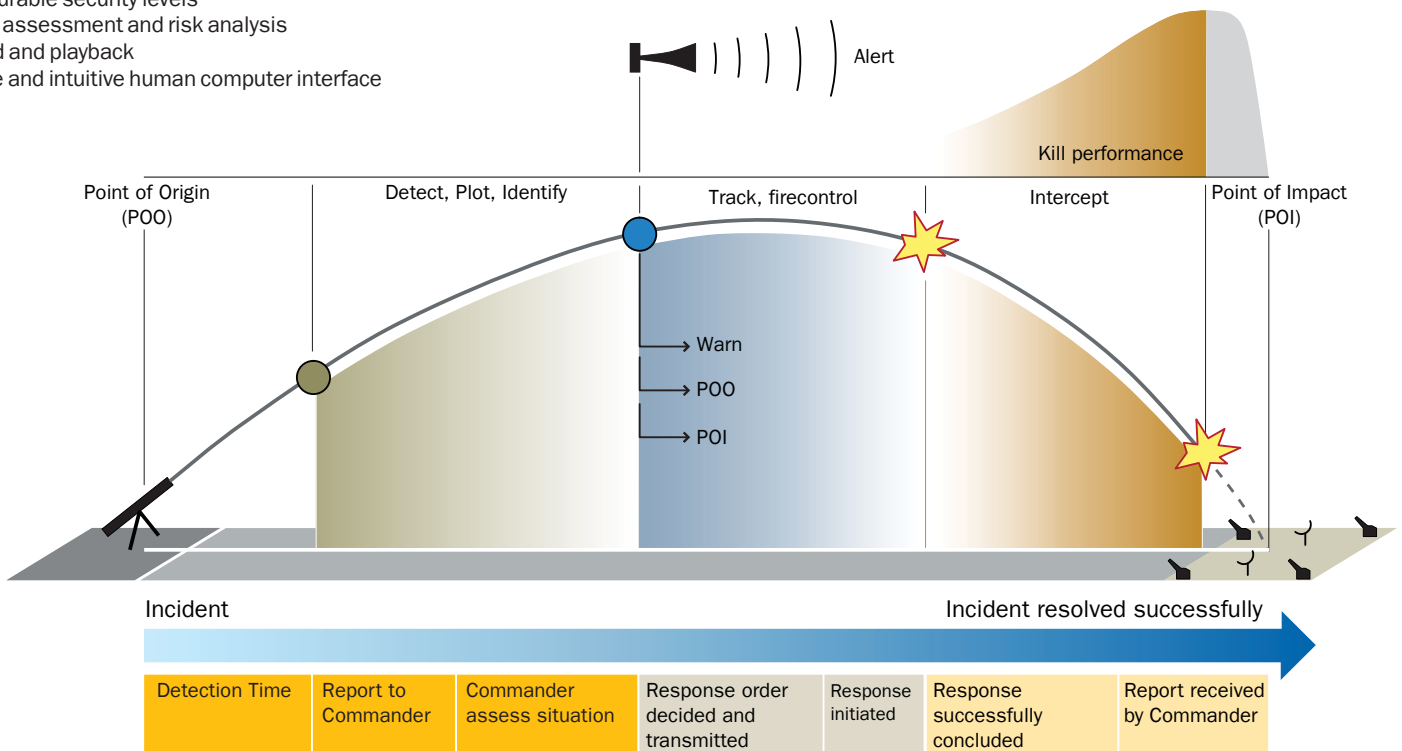
- Complete situation awareness
- Point of origin (POO), point of impact (POI) prediction
- Fused radar, EO IR sensor technology
- All weather/day and night capability
- Scalable – area coverage as required
- Mobile and fixed deployment of sensors and C2
- Wide area picture interface available
- Configurable areas for alerts and alarms
- Track history, route prediction and behaviour monitoring
- Identification, evaluation and prioritising potential threats
- Configurable security levels
- Threat assessment and risk analysis
- Record and playback
- Simple and intuitive human computer interface (HCI).

**Key components**

- Centralised C2 system
- Skyshield revolver gun system with C2 node, surveillance and tracking radar using 35mm Ahead ABM
- Minimum system is a pair of guns and one radar/C2
- Radar (the C2 can integrate and fuse all types of radar from long range surveillance to man-portable systems)
- Unattended ground sensors
- Perimeter protection with smart fences
- Video/EO/IR surveillance systems
- Access control

**Benefits**

- Provides a sense and warn capability for a variety of threats
- Delivers force protection
- Scalable protection for large or small Bases
- Improves situation awareness
- Significantly enhances security
- Provides time to respond
- Improves coordination of response
- Maintains constant operational effectiveness with minimal manpower.



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