

GROUND-BASED AIR DEFENCE (GBAD)

Real-time Common Operating Picture (COP) for the GBAD environment providing a decision advantage over our highly capable adversaries

The L3Harris GBAD acts as the single source of truth in a complex battlefield, where multiple assets and real-time air defence systems must be integrated, to ensure freedom of movement and the safe conduct of operations.

KEY TO OPERATIONS

It's extremely difficult to manage operations and to coordinate the forces battling air and missile threats. Air Defence operators need a solution that can monitor and track threats across multiple domains to ensure those threats are detected and neutralised in a timely and effective manner.

Ground Based Air Defence (GBAD) is key to providing decisive effect in support of deployed forces, to ensure that those forces have the freedom of movement essential for the conduct of operations in high threat environments.

ADAPTABLE SOLUTIONS

L3Harris' solution is an open, modular architecture, which is adaptable to customers' operational requirements and the evolving threat, enabling effective layering of an Air Defence system across multiple environments.

The L3Harris solution is driven by our powerful data fusion and analytics engine, TOTS (Target Orientated Tracking System) which integrates data from multiple sensors and platforms (radars, data links and other C2 systems) to deliver a real time, unified and coherent operational picture.











AGILE, SCALABLE SOLUTIONS TO DEFEAT THE THREAT

Our flexible systems allow the incorporation of new technologies and existing systems:

- > Multi-Domain Capability
- > Sensor independent
- > Open data-centric architecture
- > Mission configurable

A COMMON OPERATIONAL PICTURE FOR INCREASED SITUATIONAL AWARENESS

Our GBAD solutions protect against multiple threats:

- > Fixed wing aircraft
- > Rotary wing aircraft
- > Cruise missiles
- > Ballistic missiles
- > RAM
- > UAS

A SINGLE SOURCE OF TRUTH

IN A COMPLEX BATTLESPACE

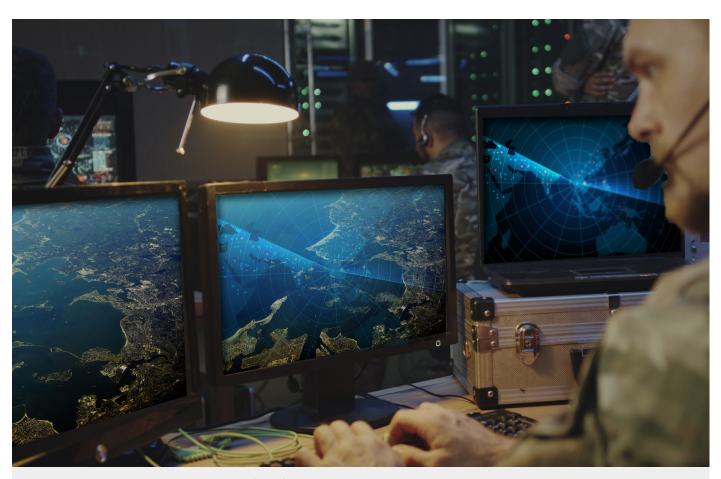
The ability to operate effectively across multiple domains demands that data is shared, managed and exploited in the most effective manner, especially for any time-critical defence and security mission. Our expertise in communications interoperability and sensor/data fusion is at the heart of everything that we do.

L3Harris' vast experience in the development and deployment of data networks and Battle Management systems is what sets us apart in the GBAD domain. Our multi-sensor GBAD solution acts as the single source of truth in a complex battlefield, where multiple assets and real-time air defence systems must be carefully coordinated, to ensure

freedom of movement, the safe conduct of operations and to provide decision advantage over our highly capable adversaries.

The L3Harris GBAD system provides a Common Operating Picture (COP) for Air, Space, Land and Maritime environments incorporating information from multiple integrated components and external sources in an open architecture framework

Additionally L3Harris has the ability to combine Situational Awareness with various software tools and protected communications, to build an integrated Command and Control (C2) system tailored to the needs of individual customers.



A COMMON OPERATING PICTURE (COP)

A single source of truth across Air, Space, Land and Maritime environments.

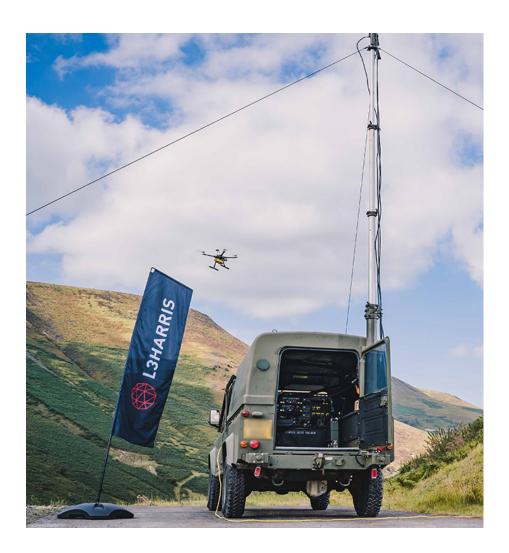
MISSION-CONFIGURABLE ARCHITECTURE

FOR SIMPLE INTEGRATION

At the heart of our GBAD capability is L3Harris' developed multi-sensor tracking and fusion engine - TOTS (Target Orientated Tracking System) which enhances Situational Awareness through the optimisation of sensors to provide greater discrimination and characterisation of the air environment.

TOTS can be used across a variety of domains against many target types simultaneously; ranging from maritime and land targets, aircraft (fixed and rotary wing types), cruise missiles, ballistic missiles, or space objects.

The platform and sensor-agnostic, allowing the creation of ad-hoc, mission-configurable architectures for coalition and multi-domain operations. Using a toolkit of advanced algorithms for processing and fusing data from sensors the system can be operated on the highest security, lowest latency distributed networks across multiple domains.



EFFECTIVE REAL-TIME DATA FUSION

Key features:

- > Unified and integrated BMC4I solution
- Modular, configurable and open architecture adaptable to customers' current and future systems
- Powerful analytics engine that processes data from multiple sensors and platforms
- > Unified air situation picture and tactical intelligence
- > State-of-the-art, real time, kinematic fusion & tracking software system
- Simultaneous, precision tracking of multiple target types
- > Low-latency concurrent processing
- Cost-effective and affordable solution



PARTNER OF CHOICE

We are dedicated to helping our customers to make mission critical decisions with confidence.

For almost 35 years, we've established a strong software engineering pedigree in the development and through-life management of complex information systems, data fusion solutions and mission configurable communications.

We have the expertise and agility to meet time-critical operational requirements. With a proven record of assured delivery, we collaborate with customers to help them to generate actionable intelligence to meet the most demanding challenges of the information age.

QUALITY ASSURANCE AND SUPPORT

We offer:

- > System integration
- > Development
- > Installation
- > Tailored solutions to support customer requirements



GROUND-BASED AIR DEFENCE

Real-time data fusion providing actionable intelligence for GBAD systems to deter, defeat, warn and inform

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L3Harris Technologies is a Trusted Disruptor for the global aerospace and defence industry. With customers' mission-critical needs always in mind, our 46,000 employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains.



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