

Guardrail Modernization

The proven, low-risk solution for the U.S. Army's evolving airborne ISR requirements



For fast changing missions like the Global War on Terrorism (GWOT), the U.S. Army needs an airborne intelligence, surveillance and reconnaissance (ISR) system that can deliver an unprecedented new level of sensor-centric capability and performance. Modernizing the existing fleet of Guardrail aircraft provides the ability to meet that challenge in an affordable and timely manner with best-of-breed technology.

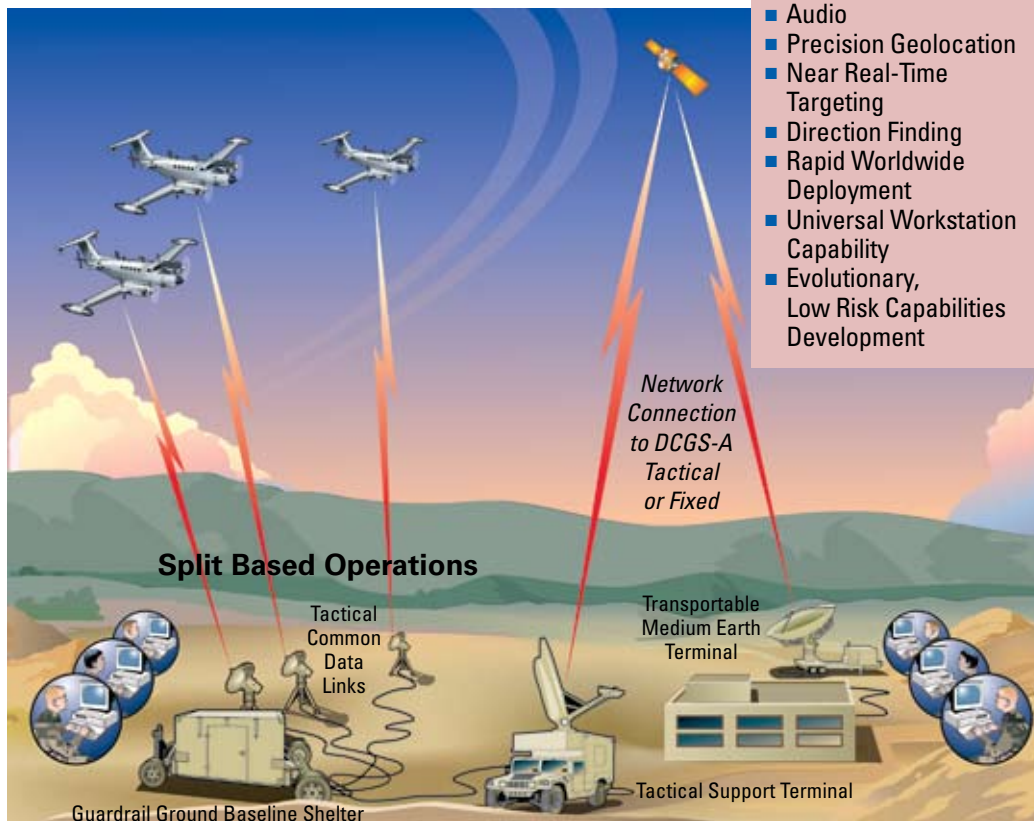
Long recognized as the world's pre-eminent airborne signal intelligence (SIGINT) system, Guardrail has supplied critical intelligence and target information to the warfighter since 1971. Northrop Grumman has partnered with the Army in developing, deploying and evolving the system and its capabilities from day one.

Today, Northrop Grumman is leading the Guardrail modernization team, improving mission readiness and sustainability. This modernization program offers a cost-effective, low-risk solution that can swiftly adapt to today's and tomorrow's worldwide missions and conflicts.

Evolutionary ISR

The incremental transformation of this proven, sensor-centric system will establish and deploy the most modern airborne SIGINT and ISR capabilities available today. Guardrail modernization brings the warfighter an unprecedented range of evolutionary capabilities:

- Enhanced intelligence, precision geo-location and situational awareness
- Improved systems performance with state-of-the-art equipment
- An incremental, evolutionary path for employing mature sensors to address evolving and emerging threats



One Baseline for all four Guardrail Systems

- A common baseline for hardware, software and aircraft with improved effectiveness, sustainment and payload life
- A modern signal exploitation capability and quadrupled data-link throughput to support special processing of GWOT signals
- Reduced weight and more space for enhanced capabilities

Reliability That Only Comes from Experience

A proven, low-risk and scaleable solution, Guardrail modernization is an important element supporting the warfighter in the GWOT mission and emerging threats in other theaters. As prime contractor and systems integrator for 35 years, Northrop Grumman offers unique insight and partnership for Guardrail's develop-

ment, operations, and sustainment. Today, Northrop Grumman continues to deliver to the warfighter industry's best-of-breed, off-the-shelf capabilities and a system that seamlessly integrates lessons learned on the battlefield. By implementing new technologies in an open and modular architecture, Guardrail modernization will enable the Army to build the ISR system needed for today's challenges and the ones ahead.

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