



BALLISTIC MISSILE DEFENSE SYSTEM (BMDS) OVERHEAD PERSISTENT INFRARED (OPIR) ARCHITECTURE (BOA)

BOA represents the gold standard in threat detection, tracking and typing enhancing decision-making through real-time, actionable intelligence from a decentralized global sensor network. Its sensor-agnostic design ensures seamless integration with both new and existing platforms.

CORE FUNCTIONALITY AND SIGNIFICANCE

- BOA delivers superior information to warfighters today.
- Supported by advanced rapid prototyping labs, BOA swiftly develops and deploys technologies that keep pace with evolving threats. Its capability

to process actionable data in real-time, even in heavy raid conditions, continues to set the benchmark for missile defense systems.

- BOA exemplifies excellence in missile defense, showcasing state-of-the-art technology coupled with a strong, agile team dedicated to outpacing evolving threats and meeting real-world demands.

BOA is a fully automated system providing high-fidelity, three-dimensional track data for missile defense and warning.



THREAT DETECTION, TRACKING AND TYPING

SPEED OF DELIVERY

Designed for speed, BOA delivers software updates and increases the speed of mission readiness. Software updates taking weeks or months is no longer the accepted standard.

- BOA consistently demonstrates rapid response to emerging threats, operationalizing new capabilities and delivering software updates measured in days and weeks vs years.
- The Northrop Grumman BOA team successfully deployed an advanced data processing system nine months ahead of schedule. This agility is possible due to the trust built through collaborative customer engagement and a suite of advanced lab spaces that facilitate rapid operational testing and concept validation ahead of program schedule needs.

LEGACY OF EXPERTISE

Building on decades of Northrop Grumman leadership in missile defense, BOA is the benchmark for rapid prototyping and advanced data fusion. It yields rapid, actionable data that supports warfighter decision-making and active engagements, with critical data synthesized from multiple satellite constellations.

BOA's success is not just about technology; it's about a dedicated, skilled team committed to delivering essential missile defense solutions effectively and efficiently. Trusted and delivered next-generation innovation, built into who we are.

