

Warner Robins Air Logistics Center

AFMC

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Common Multiplatform Boresight System (CMBS)

**642d
Combat Sustainment
Group (CBSG)**

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Combat Sustainment Wing CMBS



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Program Description

- Boresighting is a technical order driven alignment process when different avionics or electro-optical sighting systems are referenced to the centerline axis of their associated avionics, munitions and/or navigation centerline axis of these systems
- Acquisition of a Common Multiplatform Boresight System (CMBS) capability which advances the core competencies of rapid global mobility, precision engagement, and agile combat support by providing a faster, simpler method of boresighting weapon and sensor systems on multiple aircraft platforms



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Program Objectives

- Implement common multiplatform boresight capabilities throughout the Air Force using mature commercial technology
- Provide CMBS common test capabilities which enables replacement of unsupportable legacy boresight systems
- Reduce the Air Force inventory and dependency on peculiar boresight equipment
- Provide boresight equipment that will improve weapon system readiness
- Reduce out-year weapon system lifecycle costs
- Field and sustain an affordable, capable and reliable boresight system



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What We Need

- Improved aircraft availability and combat effectiveness
- Accurate delivery of ordinance on targets
- Equipment suitable for use on multiple platforms (MAJCOMs, Services, NATO, and FMS)
- Obtain equipment IAW DoD commonality initiatives
- Harmonizing, accurate, cost-effective system with newest technology
- Replace equipment at the I/O levels, thus reducing the logistics footprint, training requirements, spares, etc. by removing the logistics support for multiple tester types and configurations
- Implement a common configuration to enable movement of workload from one location to another should equipment become unserviceable
- Reduced boresight operations
- Reduced maintenance workload (time and personnel)
- Readily deployable equipment
- User Friendly equipment



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Acquisition & Sustainment Strategy

- Procurement of a common multi-platform boresight system
 - Including operation manuals with Illustrated Parts Breakdown (IPB)
 - Updates for Aircraft Technical Orders
- System must be minimally sustainable at the depot level
 - System interface drawings
 - Level 3 TDP required
- The system will be tested by the Air Force (AF) in operational conditions for each weapon system.
 - Exceptions will be considered and must be approved by aircraft SPO for previously procured “similar” DoD systems



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Program Requirements Roadmap

- Replacement of 64 legacy system for the F-15 and F-16
- The replacement system will be a Common Multiplatform Boresight System (CMBS)
- Projected Tasks & Timelines
 - Pre-Solicitation Conference Feb 2009
 - Request For Proposal (RFP) Release Mar 2009
 - RFP Responses Due Apr 2009
 - Contract Award Jul 2009



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Program Requirements

FY09

FY10

FY11-16 →

Rmts

1 / 2

7

6-12/year



Data is subject to change!



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Take Aways

- The CMBS must overcome all of the prior program challenges of:
 - Accuracy
 - Complicated Supply
 - Difficult to Use
 - Deployability
 - Size and Weight
 - Short & differing calibration cycles
 - Training
 - Uneconomical Life Cycle Costs
- Data Required – I/O-level maintenance provides benefits for long-term supportability



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Government Focal Points

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Warfighter Focused



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