



P-8A Increment 3 ABA TD Solicitation Industry Day 07 March 2013



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Agenda



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Note taking is allowed

- **0900-1000 Briefing (General Session)**
 - Question and Answer Process
 - Program Overview
 - Study Objectives
 - Proposal Evaluation
- **1000-1100 Question Review (Government only)**
- **1100-1200 Response to Questions (General Session)**
- **1200-1300 Lunch (on own)**
- **1300-1700 One-on-one Sessions (sign-up prior to lunch)**

The purpose of this meeting is to provide information relevant to the P-8A Increment 3 Solicitation N00019-13-R-0045 and to collect Industry questions.



Q/A Process



- **The following process will be used for questions:**
 - Please hold all questions during the briefing
 - Forms are provided for written questions and comments
 - Forms will be collected at the end of the briefing for Government review and response in subsequent general session
 - One-on-one sessions will start at 1300 - Government will record/accept additional questions
 - Presentations, questions, answers, solicitation (N00019-13-R-0045), and updates will be posted on FedBizOpps (<https://www.fbo.gov>)
 - Subsequent questions/comments must be submitted via e-mail to Ms. Monica White (monica.white@navy.mil) and Mr. Scott Segesdy (scott.segesdy@navy.mil) – Telephone inquiries/comments will NOT be accepted
 - Questions/comments must be submitted no later than close of business 28 March 2013 to be considered for the final RFP



Disclaimers

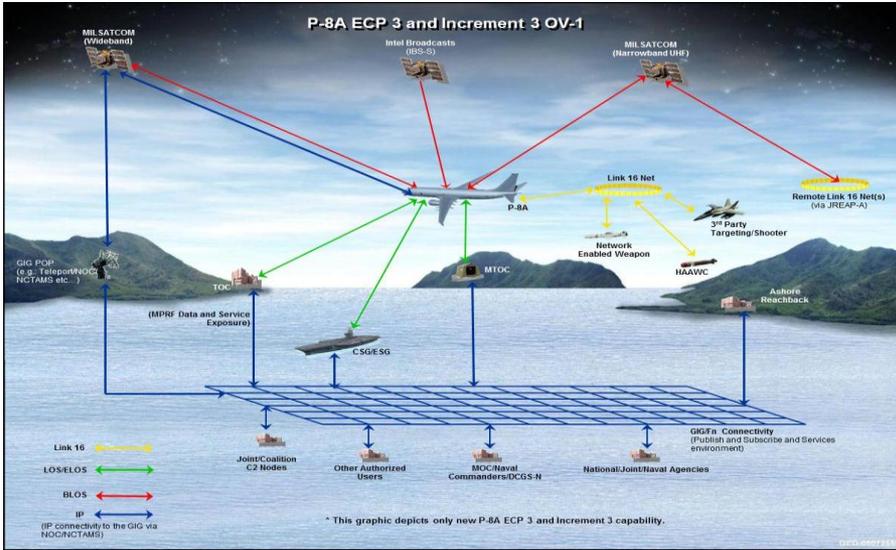


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- **The remarks today by Government officials involved in the P-8A Increment 3 program are not a guarantee of the Government's course of action in proceeding with this procurement.**
- **The information we share today reflects current Government intentions and is subject to change based on a variety of internal and external circumstances.**
- **The formal solicitation, when issued, is the only document that should be relied upon in determining the Government's requirements.**
- **Increment 3 is a Cooperative Program with Australia, contractors should be prepared to support foreign national participation.**



P-8A Poseidon Evolutionary Acquisition

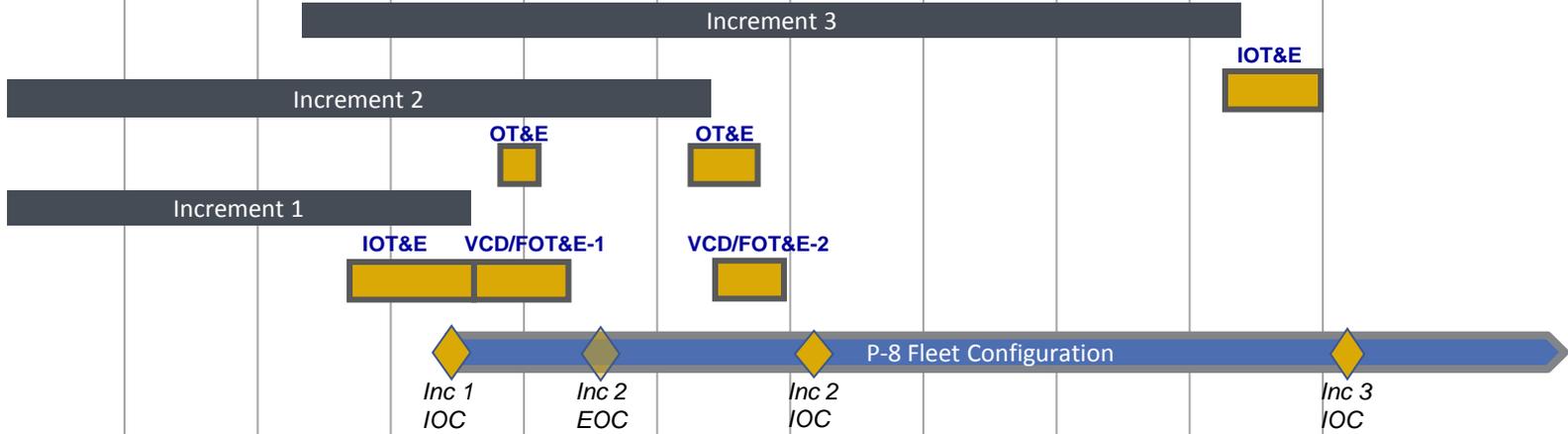


P-8A Increment 3

- **Net Ready Integration and Architecture Improvements**
 - Software Enabled to Host Generic Apps
 - Robust Security Architecture
 - Consolidated Data Storage
 - Enables 3rd Party Competition
- **ASW and Communication Capability Upgrades**
- **Net Enabled ASuW Weapon and Improved Targeting**
- **Preparing for Milestone A DAB 2QFY13**
- **IOC Planned for FY20**

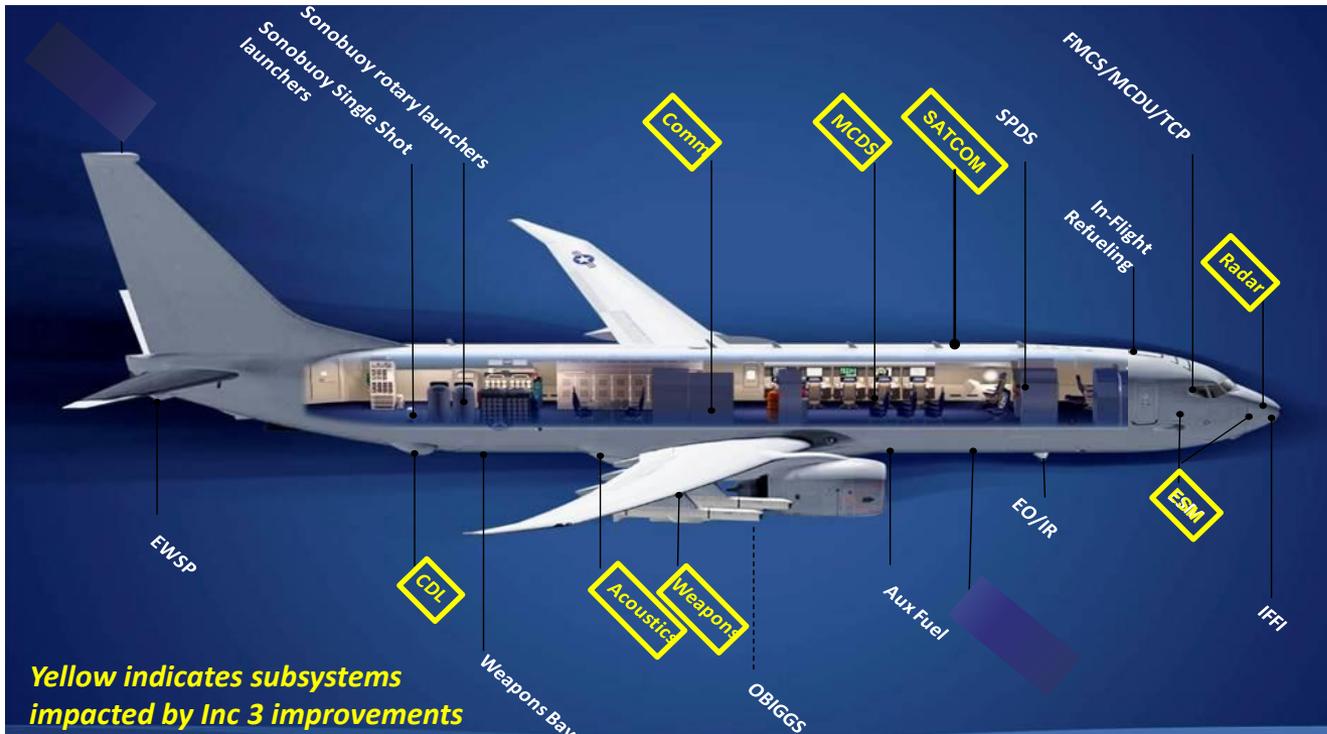
FY10 FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 →

P-8 Integration





P-8A Increment 3 Requirements Overview



Yellow indicates subsystems impacted by Inc 3 improvements

- **Increment 3 includes Applications Based Architecture (ABA) and ~ 15 discrete capabilities. CDD approved July 2010**
 - ABA enables long-term business strategy for P-8A
 - Development is independent of other INC 3 capability development and integration
 - Full data rights during TD allows re-competition at Milestone B and beyond
 - Candidate capabilities not interdependent, can be individually integrated
 - Potential to accelerate delivery of some mature capabilities as early ECPs

System Architecture

- **Net Ready KPP**
- Applications Based Architecture
- Security Architecture
- Removable Media Consolidation (Obj)
- Mission Planning & Sensor Analysis

Weapons / Stores

- **Net Enabled Weapon (NEW)**
- In-Flight Guidance of HAAWC

Communications

- Wideband Beyond Line of Sight
- Extended Line of Sight IP
- Broadcast Intelligence
- Common Data Link Upgrade (Obj)
- Joint Range Extension (Obj)

Targeting

- Data
- Third Party Targeting

Sensors

- Acoustics (MAC Enhancements)
- Radar Sensor Upgrade (Obj)
- ASW SIGINT (Obj)

Bold = KPP

Non-bold = System Attribute



Increment 3 Broad Goals



- **Commercial information technology architectures have made rapid advances in allowing broad portability of applications.**
- **These advances need to be brought to DoD platforms to maximize the value of application development efforts and allow third-party hardware and software to be deployed across a broad variety of platforms with minimum or no effort by the platform prime Contractor.**
- **The Navy desires to shape an architecture that will meet other key objectives to enable the P-8A to improve mission efficiency, meet the evolving threat, and expand mission capabilities over its life in a cost effective and timely manner:**
 - Net-Ready (NR), Applications-Based Service-Oriented Architecture (ABA SOA)
 - ASW improvements
 - Net-Enabled ASUW weapon
 - Sensor upgrades and other improvements



Notional Contracting Strategy



- **The P-8A Increment 3 (INC3) contracting strategy consists of four contracting phases depicted in next figure:**
 - Pre-Technical Development Architecture Study phase
 - BAA study contracts competitively awarded to 4 companies
 - TD phase
 - ABA TD contracts competitively awarded to 2 companies
 - Approximate anticipated value of each award \$20M
 - Sole source contracts awarded to OEM to assist Government
 - Engineering and Manufacturing Development (EMD) phase
 - ABA EMD contract competitively awarded to 1 company
 - Full and Open competition, not a down-select from TD
 - Sole source contracts awarded to OEM to assist Government
 - Multiple contracts to integrate new capabilities via ABA
 - Combination of competitive and sole-source
 - Retrofit Procurement and Installation phase
 - Anticipate combination of competitive and sole-source efforts

This effort

Enables True Competitive Opportunities Throughout P-8 Life Cycle



P-8A Increment 3 Contracts Planned



	Contract	Purpose	Type	PoP (~ start)	Major Deliverables
Studies	BAA Architecture Studies <i>Awarded</i>	Engineering research and evaluation service oriented architecture in the P-8A based on the Gov't Reference Architecture analysis	Competitive FFP	6 months (Nov 2012)	<i>Validation of SOA development path</i> <ul style="list-style-type: none"> Reference architecture analysis System architecture concept report Description of key assumptions
	TD	SOA Environment Technology Development	Development of the systems architecture upgrade (ABA)	Competitive CPIF	27 months No options (3QFY14)
Technology Development (or Integration) Risk Reduction		(1) Risk Reduction - Interface and (2) Risk Reduction – Capabilities Integration Analysis	Sole Source CPIF	27 months No options (2QFY14)	<i>Integration Products and Design</i> <ul style="list-style-type: none"> SOA / TOMS interface Technical data / software products Capability integration analysis
EMD	SOA Environment EMD	SOA Environment Engineering and Manufacturing Development (ABA)	Competitive FPIF	39 months (2QFY16)	<i>SOA framework integration</i> <ul style="list-style-type: none"> Architecture and Net Services hardware / software retrofit kit Related technical data
	Capability Integration	Increment 3 Capability Integration	Potential competitive and sole source FPIF	39 months (4QFY16)	<i>Integration of specific capabilities</i> <ul style="list-style-type: none"> Hardware / software retrofit kits Related technical data
	Platform Integration	Weapon System Integration	Sole Source FPIF	39 months (3QFY16)	<i>Support for Aircraft Integration</i> <ul style="list-style-type: none"> SOA framework Specific capabilities
P & D	Procurement and Installation	Retrofit Kit Production and Installation	TBD Fixed Price Type	TBD (1QFY19)	<i>Procurement of retrofit kits and installs</i>

This effort



Increment 3 Status



- **Broad Agency Announcement software architecture study contracts awarded to four contractors Oct 2012**
- **Pre-MS A WIPT coordination complete 2011-2012**
- **ACAT 1 program documentation ready for MS A DAB Mar 2013**
- **Govt Procurement Planning Conference for ABA SOA TD 17 Jan 2013**
- **Draft RFP for ABA SOA TD released 22 Feb 2013**
- **Industry Day for ABA SOA TD 07 Mar 2013**
- **Final RFP for ABA SOA TD planned release Apr 2013**
- **Planned proposal receipt 19 Jul 2013**
- **ABA SOA TD planned award 2nd or 3rd Quarter Fiscal Year 14**



Increment 3 TD Phase



- **The TD phase of the P-8A ABA System will include the following major subtasks:**
 - ABA System Prototype
 - Develop, integrate, and deliver a P-8A ABA Framework, a P-8A ABA Application, and a Systems Security Architecture
 - Integrate, demonstrate through test, and deliver the P-8A ABA Framework, application, and security architecture on the ABA Prototype Hardware
 - Support integration of independently developed P-8A ABA application(s) into the P-8A ABA Framework
 - Develop and deliver a Software Development Environment (SDE) based on the P-8A ABA Framework
 - ABA System Preliminary Design
 - Develop and demonstrate through analysis a P-8A ABA System Preliminary Design that meets all P-8A ABA System Design Specifications (SDS)

Source: P-8A Inc 3 ABA TD draft Statement of Work



ABA Development



- **Contractor ABA TD efforts include developing documentation, hardware/software system design, and system demonstration**
- **The Contractor will incrementally deliver products to facilitate collaboration with the Government and other contractors.**
- **All intermediate and final products including source code, software development environment, hardware, analysis, and documentation shall be delivered with unlimited Government rights to allow future changes to and integration into the ABA Applications and Framework**
- **The Contractor shall not incorporate any components or interfaces with proprietary/restricted rights into any of the final products, including source codes, software development environment and documentation, that impact the Government's future ability to modify the ABA Framework or limit competition of ABA Applications using the ABA Framework**

Source: P-8A Inc 3 ABA TD draft Statement of Work



ABA Collaboration



- **ABA software and framework will be developed using “inner source” or “organizational-internal open source” model**
- **All ABA products developed by the Contractors shall be non-proprietary, with unlimited Government rights and may be published at Government discretion in a Government ABA collaborative forum**
- **The Contractors shall participate in a collaborative manner with Government-led working groups which will develop, create, manage, and support the ABA Applications and Framework**
- **The Government will arbitrate harmonization of designs between contractors**
- **The contractors shall support and contribute to the activities associated with the P-8A Increment 3 strategy leading to a best-of-breed ABA system design**

Source: P-8A Inc 3 ABA TD draft Statement of Work



Security Architecture



- **The Contractors shall design, develop, test, and document a Security Architecture for the ABA Framework that ensures the security of all applications within the ABA Framework and exposes all security services to the ABA System in accordance with the requirements of the ABA Specification**
- **The Contractors shall develop and document the Security Architecture so it is separable from the main ABA Framework so that the ABA Applications and Framework can be published on open forums**
- **The Security Architecture shall support multiple domains using Multiple Independent Layers of Security (MILS), Multiple Levels of Security (MLS) or MILS-MLS hybrid approaches:**
 - Secret, Top Secret, and Special Access Program (Threshold)
 - Threshold plus Sensitive Compartmentalized Information (Objective)

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Questions?



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