Air Force Open Systems Acquisition

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OPEN SYSTEMS ACQUISITION (OSA)

Headquarters U.S. Air Force

Integrity - Service - Excellence

Bending the Cost Curve

From Plugfest “Plus” to Open System Acquisitions
Evolving the Air Force Acquisition System

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SAF/AQ Office of Transformational Innovation (OTI) brief
Dr. Camron Gorguinpour
• **OBJECTIVE:** Modernize Command, Control, Communications, and Cyber Intelligence Surveillance & Reconnaissance (C4ISR) Information Systems using agile developed “plug-n-play” technologies via modern open systems architectures.

• **BENEFITS:** Provide open, agile, information-based, services oriented system built upon modern Open System Approaches that will significantly change the way our systems currently perform and provide rapid adaptation and integration of new capabilities.

• **SCOPE:** Research, development, test, engineering, certification, modeling and simulations, measurement, and integration of tools using an innovative, rapid acquisition process for Air Force “open-systems” based C4ISR Information Systems (Such as: Distributed Common Ground System (DCGS), Theater Battle Management Core Systems (TBMCS), Air Operations Center- Weapons System (AOC WS), and others).
If we provide streamlined procurement via *Other Transaction Agreement* ...

and...

We provide processes and tools for “plug-and-play” open system engineering...

then...

We will steadily, and measurably, increase ROI per defense dollar invested in information systems!
LEARN BY DOING

Several projects/programs
USAF OTA $99M ceiling

One project, one program
FY15

Fielded prototype

Crawl

Well established
best practice
FY17

Sustained off-the-shelf capability

Walk

Thriving market of rapidly evolving, pre-approved, interoperable capability

Teleport

FY16

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osa unique features

- Collaboration between SAF/AQ, AFRL/RI, and Information Systems Special Projects Offices (SPOs) promotes:
  - Technologies integrated within modernized infrastructures
  - Significant expansion of performance & agility
  - Significant decreases in time to field, lifecycle management, and cost.

- Combination of non-traditional contractors with traditional mentors (Consortium) provides iterative rapidly developed/integrated capabilities

- Use of modernized open architectures provides capabilities that meet warfighter requirements over the program lifecycle.

- New & existing OTs enable and encourages broader range of commercial firms to help in developing defense systems.
DCGS OSA EXPERIMENT
Multi-Releasable Intelligence Product (MRIP)

We Are Here

Mission Thread Identification
- Scenario & Rqmts.
- Virtualized Env.
- Sample Data Sets
- TEMs w/ vendors

Vendor Development & Testing
- To Test Facilitators
- To Test Team

Training for Plug-Test Event

Plug-Test Event
- Government Test

Plug-Test Evaluation
- Capability Eval.
- Document Eval.
- Gov. Down-Select

Request for Proposal
- Vendor Plan & SOW
- Contract Negotiations

Post Award Contract
- Additional Dev.
- Product LMC

Transition to Weapons System
- A & A Testing
- Integration w / WS

Gov. Down-Select

Contract Awards
As with all BTCC activities, success cannot be achieved without significant collaboration with industry:

- Join the Open System Acquisition Consortium (or compete in the RFP process to establish the consortium)
- AFRL DRAFT RFP for the first Air Force Open System Acquisition Consortium, View on FedBizOpps or www.plugfestplus.org
- Tell a friend

Partnerships with other DOD and federal agencies is also critical:

- Open System Acquisition vehicle is available to all government entities
- Input from other potential government customers is incredibly valuable
- Tell more friends
The Air Force is committed to identifying and implementing innovative business approaches to deliver better, faster, and cheaper capabilities to our Airmen.

Open Architecture Systems are an integral part of Air Force goals, but current business practices are prohibitive.

Open System Acquisition efforts aim to close that gap.

Continued partnerships with industry (and other government agencies) are integral to building a viable acquisition process for the 21st Century.