


ARGCS Update




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DoD ATS Executive Agent Office
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US DoD ATS Goals

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1. Reduce the total cost of ownership of DoD ATS
 2. Provide greater flexibility to the warfighter through Joint Services interoperable ATS
 3. Reduce logistics footprint
 4. Improve quality of test – leverage embedded and other diagnostic data

DoD ATS Strategy

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1. Use DoD designated Standard ATS Families or use certified COTS systems
 2. Define a Technical Framework for ATS
 3. Share technology development and insertion
 4. Share investment in next generation ATS demonstrations
 5. Each Service modernize own systems

Next Generation System-Level Demonstration



- Jointly demonstrate a system-level solution that:
 - Rolls up the set of NxTest technologies
 - Embraces the ATS Technical Framework
 - Could become DoD's Next Generation ATE
- Current system-level demonstration is named Agile Rapid Global Combat Support (ARGCS)
- ARGCS is a DoD “purple suit” program – Army, Navy, USAF, Marines working together
 - OSD Advance Concept Technology Demonstration (ACTD) project
 - Funding from OSD
 - Army, Navy, Air Force and USMC funding and other resources
 - Scheduled for an FY-04 start

Six Objectives for ARGCS

1. System Interoperability

- Interoperability among Services (to include coalition partner services) support systems
- Interoperability of support between weapon systems
- Interoperability among all different levels of maintenance
- The ability to reuse support data from all levels of maintenance to facilitate integrated diagnostics

Six Objectives for ARGCS

2. Acceleration of Test Support Equipment Availability in Support of Weapons System Deployment

- ARGCS shall reuse tests from factory to field levels of maintenance to demonstrate accelerated support equipment deployment, allowing near simultaneous support system current with new weapon systems.

Six Objectives for ARGCS

3. Rapid Enhancements and System Improvements

- ARGCS shall allow for rapid upgrading and easy insertion of future hardware and software. It will feature easily upgradeable hardware and software to accommodate new and improved functionalities or emerging weapons system requirements. This will allow multi-level support system to have technology parity.

Six Objectives for ARGCS

4. Optimize Logistics and Support Costs

- ARGCS shall optimize logistics and support costs to reduce the number of different types of support equipment and total ownership costs required for each Service. In addition, the flexibility to resolve issues of instrument obsolescence, legacy software investments, and weapon system enhancements will drive lower lifecycle costs
- ARGCS shall facilitate Joint Service regional maintenance concepts to support all weapon systems, thereby consolidating support requirements

Six Objectives for ARGCS

5. Reduction in Logistics Footprint

- ARGCS shall utilize an open system architecture to allow for scalability and for incorporation of downsized state-of-the-art technology resulting in the ability to significantly reduce the logistical footprint

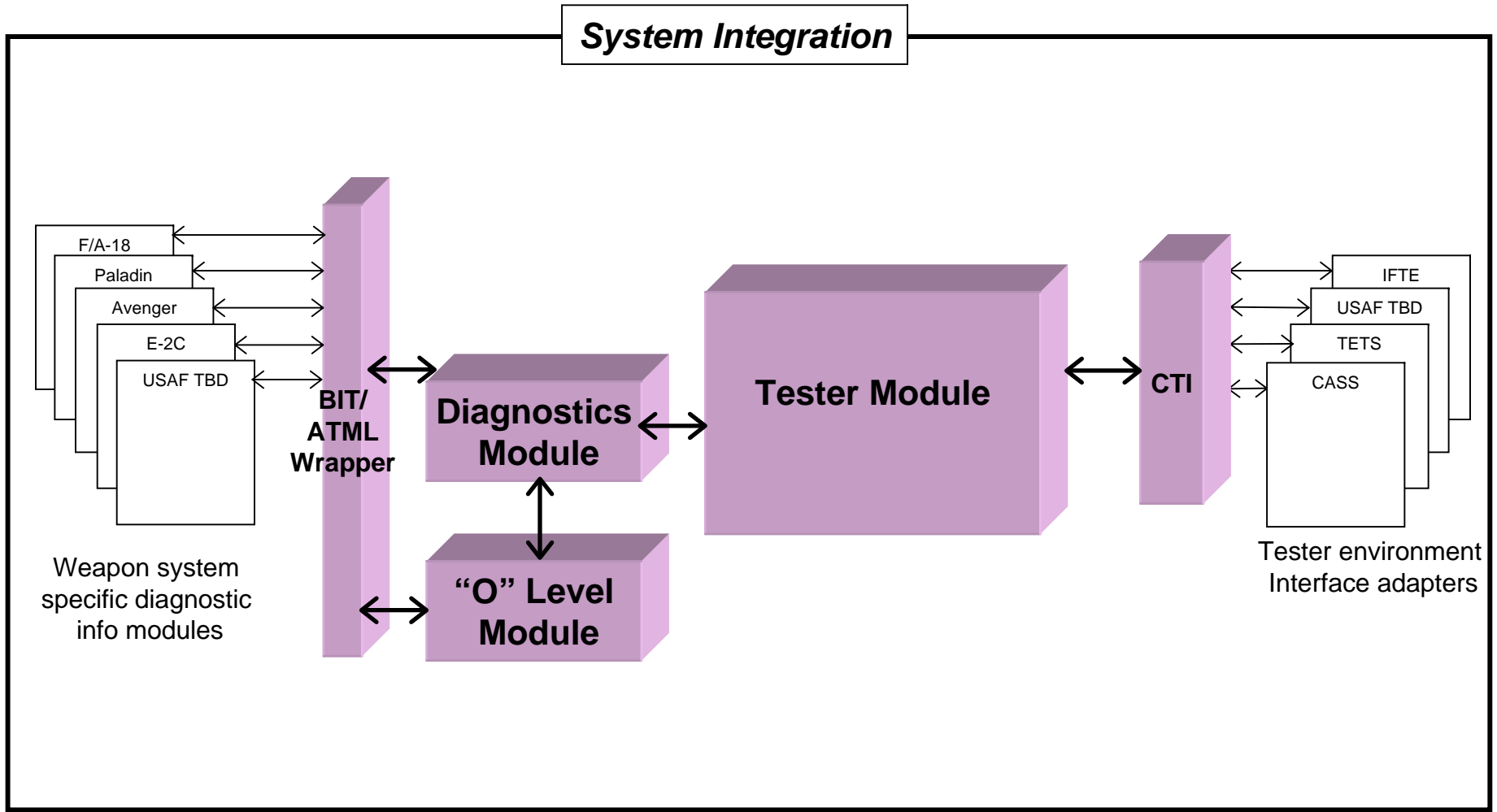
6. Reduction in Time to Repair, Level of Repair, and High Return Rates (CND/A799/NFF/BCS/ RTOK/NEOF/CNV/NTF)

- ARGCS shall avoid unnecessary failure repair actions

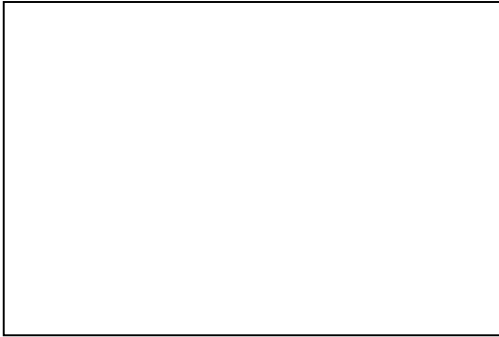
Functions to Demonstrate - A Summary

- **Closed Loop Diagnostics**
- **Use of Knowledge-Based Maintenance Database**
- **Interoperability**
- **System Parametric Performance**
- **Environmental Performance**
- **External Communications**
- **Web portal**
- **Ability to transmit video and large files**
- **Interactive support**
- **Data mining**
- **Information dissemination**
- **Rapid Deployment**
- **System Scalability**

Major Elements of ARGCS



ARGCS Demonstration Weapon Systems



USAF - TBD



F/A-18 Hornet



Avenger



E-2C Hawkeye



Paladin

ARGCS Leadership

- Sue Payton, DUSD (AS&C)
- Bill Ross, NAVAIR PMA260
 - Steve Lingar
 - Bill Mitchell
 - Mike Heilman
 - Manuel Garcia
 - Malcolm Brown
- Bill Birurakis, NAVAIR 4.8
 - Jay Romania
 - James Reasor
 - Gene Morin
 - Tony Geneva
- Elijah Brown, CINCLANTFLT
- Multiple
- Chuck Adler, NAVAIR LKE

Senior Oversight Panel

Management Team Lead

Army Management Team
USAF Management Team
USMC Management Team
SP MOD Management Team
UK MOD Management Team

Technical Team Lead

Army Technical Team
USAF Technical Team
USMC Technical Team
Navy Technical Team

Operational Manager

Transition Manager

Contracts Officer

ARGCS Schedule



NxTest Technologies

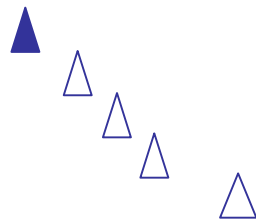


**ARGCS Requirements
Definition**



Contract Actions

- + BAA released (9/11)
- + Industry Day (10/7)
- + PH I White Papers due (11/15)
- + PH II RFP Released (12/15)
- + System Integrator Award (4/15)



**Design, Development and Integration
(build 4 Demo Units)**



Demonstration/Validation



Joint Military Use Assessment



End User Evaluation



Fielding



High Level Acquisition Strategy

- Broad Area Announcement to solicit ideas
- Select the best ideas and request a full proposal
- System Integrator to integrate the technologies and produce 4 demonstration units
- Each Service manage own transition and acquisition of production units

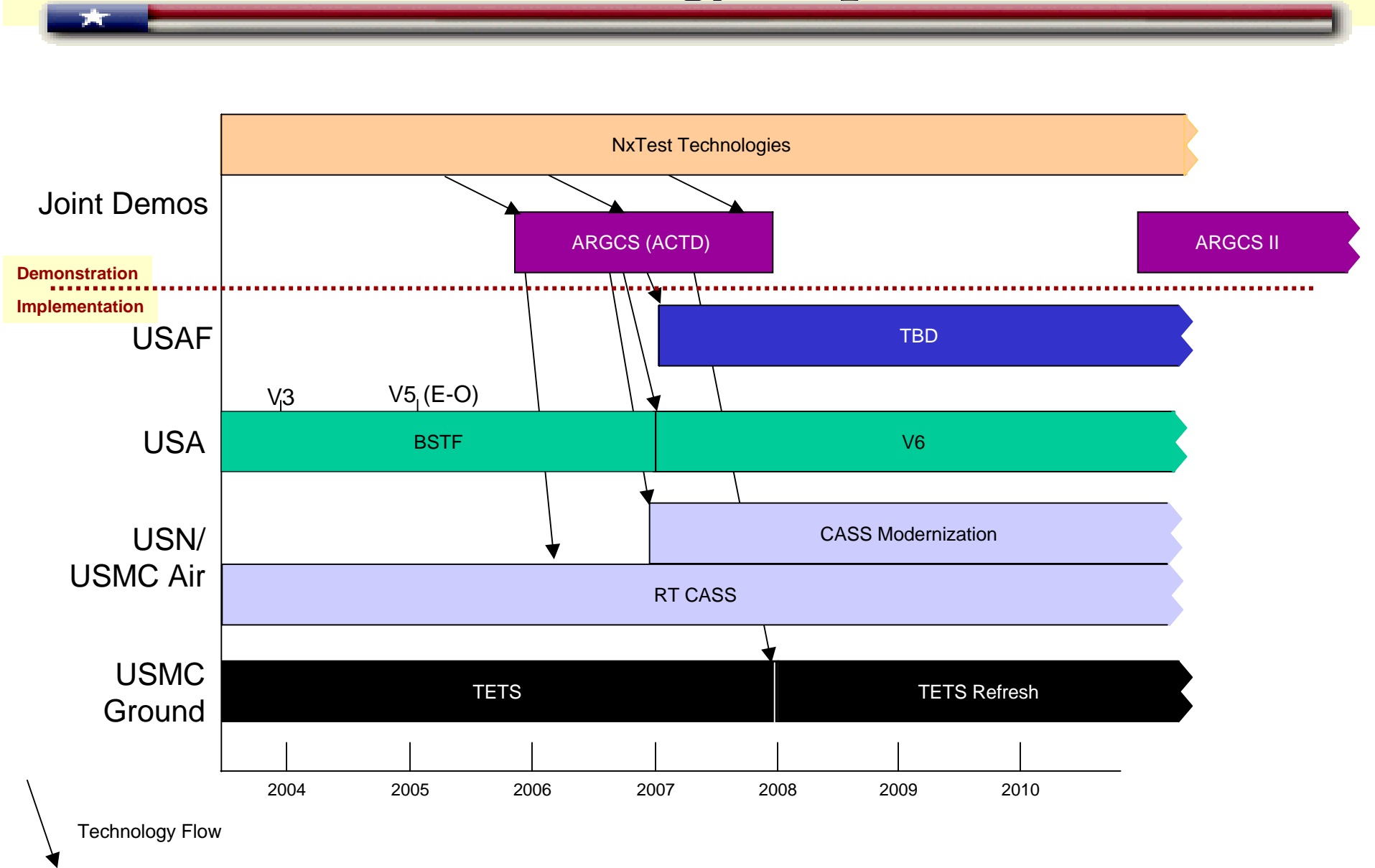
Near-Term Activities

- Broad Agency Announcement #N68335-03-R-0140 released 11 September
 - Copies available at NAVAIR booth
 - Available at FEDBIZOPS
<http://www1.eps.gov/spg/DON/NAVAIR/N68335/N68335%2D03%2DR%2D0140/SynopsisP.html>
 - Includes Statement of Objectives and Key Performance Parameters
 - Phase I – White Papers (20 pages max) due 15 November
 - Explain the overall scientific and technical approach to achieving the objectives described in the Statement of Objectives.
 - Provide a detailed proposed solution/approach
 - Describe the work to be performed
 - Describe the offeror's expertise to achieve the proposed solution
 - Present a Rough Order of Magnitude (ROM) for cost and schedule
 - Phase II – By 15 December, a full proposal (50 pages max) will be requested of companies with most promising solutions based on
 1. Overall technical quality and capability
 2. Economically feasibility of the solution

Near-Term Activities (con't)

- A System Integrator will be selected by 15 May 04 from those companies submitting Phase II proposals based on
 1. Overall scientific and technical capability as related to ARGCS (to include relevant corporate experience, understanding of the work objectives, past performance, small business commitment, and personnel resources), and
 2. Estimated cost and fixed fee including cost realism
- All awards will be on a “best value merit competition” basis
- Additionally, all companies invited to submit a proposal for System Integrator must be committed to being a cooperative teammate under ARGCS. All teammates must be willing to sign Associate Contractor Agreements. The agreements will be designed to show that contractors are willing to work in a cooperative environment and are willing to share information and knowledge with the system integration team
- Teaming is strongly encouraged
- Industry Day scheduled 7 October at Dulles Airport Marriott
 - Names must be submitted NLT 30 September

ARGCS Technology Implementation



Summary

- Services are working technology insertions together – evolving our different test system families to look more alike
- Services are working together to demonstrate the next generation system – each implementing as needed
- ARGCS is on track for selecting the System Integrator next Spring.

- NxTest/ARGCS Session A7 - Thursday 10AM

