



**U.S. AIR FORCE**

**June 2008**

**USAF Liaison  
Report**

**Michael Frey**

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# AGENDA

- Near-term ATE efforts/Studies/Contract Vehicle
- Logistics Transformation
- USAF ATS Policy/Transformation Updates
- VDATS Update
- USAF RE21 Status
- News
  - Budgets/Programs
  - USAF Modernization/Sustainment Programs

# Near-Term ATE/Vehicles

## ■ F2AST WR

- Multi-yr. \$5.4B IDIQ replacement for FAST 1
- RFP released 23 Jan 08
- Must be awarded Summer 08
- No Small Business set-aside. Full and Open
- RFI for a SB Modification IDIQ contract released in Oct to mitigate F2AST

## ■ F-15 ESTS Modernization

- ~\$40M upgrade effort over 3 year period
- F-15 SPO WP running procurement/WR assist
- 3<sup>rd</sup> DRFP April 08, RFP 13 Jun?, award NLT Dec 08 Award
- Competitive Small Business Set-Aside

## ■ A-10 Combined Armament Tester (CAT)

- Study completed Nov 07 (Not to be released to Industry at this time).
- Spec to be defined as a possible launch point for a universal armament tester.
- CY 08 funding undefined
- Program funding ~2010 ?
- Requirements definition needed

## ■ AF/Navy review of Top Level ATE Systems

- Leverage existing major ATE platforms for the future needs

## ■ RFI VDATS TPS and Build to Print

- TPS offload RFI April 08 response due July
- BTP modification 28 May response due July

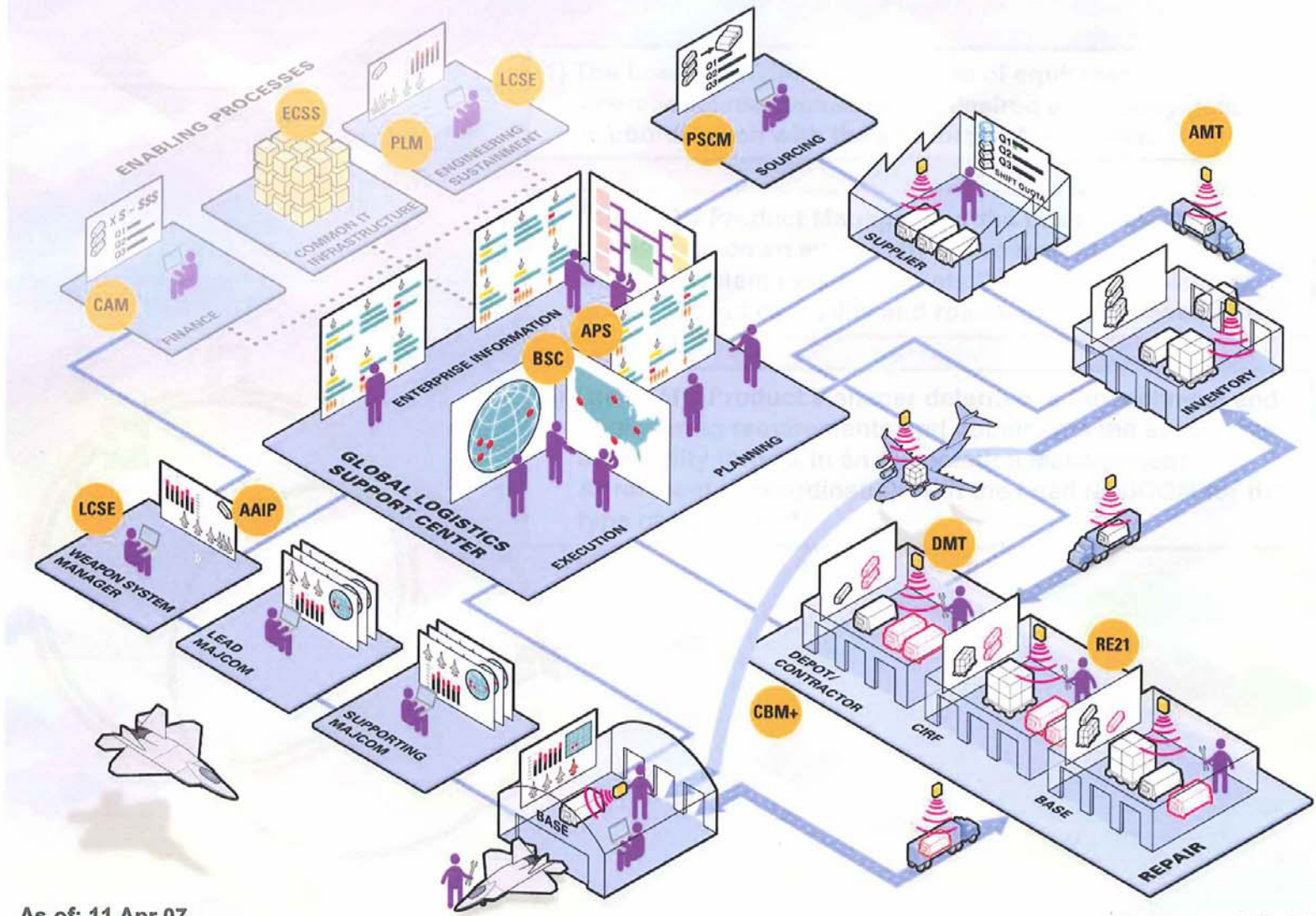
# Logistics Transformation - News

- **GLSC and ECSS the new enterprise system for improving over-all supply chain Management.**
  - Global Logistics Support Center GLSC (The POC for all other functions noted) i.e. the quarterback. (USAF Lead Grove Dunn USAF/ILM), (AFMC BG Frank Bruno)
  - There will be a Pentagon Directorate for GLSC with Main HQ at AFMC.
  - Scott AFB the location of the [GLSC. Activated 20 Jan 2008](#)
  - Trying to get away from the stovepipe way of business
    - Consolidated Asset Management (CAM) and [contracting functions \(5 Regions\) Delayed](#)
  - Centralized Management of AMMO

**NOTE:** Will ultimately interface into similar Navy/Army programs

- **ECSS will enable a single data entry for Logistics info. (Will replace over 300+ existing databases)**
  - Initial ECSS on line by 2011
  - COTS tools, CSC leading roadmap effort
  - Many elements within ECSS, operational prior to 2013
  - AF will adapt Mx procedures to COTS systems
- **RE 21 Repair Enterprise (Regional repair Centers and ALC - field to depot repair support)**
  - SecAF has directed USAF to expedite the RE21 process. (2 Years)
  - ALCs stood up 1 Oct. 2007
- **USAF/Rand Study on over-all Logistics Enterprise due in FY 08**
- **Additional logistics USAFgoals**
  - Reduce deployed and CONUS footprint, reduce cycle and repair times
  - Reduce # of AFSC from 263 to 100 focus on Expeditionary operations
  - INTERDEPENDENCE between services, agencies and allied countries

# AIR FORCE "TO BE" LOGISTICS PROCESSES



As of: 11 Apr 07

OPR: A4I

# USAF ATS Policy

- **Col. French declared VDATS USAF ATS Family member 19 Sept 07**
  - SAF/AQ USAF, AFMC/CC signed off on new USAF ATS Policy letter 26 Nov 07
  - ATS Family for Depot support and New programs
    - Policy letter stating VDATS as USAF Tester
    - Desire that legacy ATE build software/hardware bridge to VDATS
  - No intent to replace existing infrastructure with VDATS
  - Wants to offer PBL contracts to all major ATE providers
    - Test by the hour
  - Desires to get the USAF out of the ATS support business
  - Formulating a ATS roadmap going forward.
    - Part of a larger ACC SE IPT effort
  - Col. French's Group to migrate to a new Center AFFV&SE
    - 1Oct 2008, Location – TBD - WR likely
    - AFFV&SE CC Col. Kessey Miller
    - Funding profile for ATS being realized
      - A4/SAF establishing ATS PE for out-year POM
      - Initial funding for VDATS Rehost activities starting FY 09

# Official USAF ATS Policy Letter



OFFICE OF THE ASSISTANT SECRETARY

DEPARTMENT OF THE AIR FORCE  
WASHINGTON DC



26 November 2007

MEMORANDUM FOR: SEE DISTRIBUTION


SUBJECT: Air Force Guidance on Procurement of Automatic Test Systems and Equipment


In response to the General Accounting Office (GAO) Report, "Military Readiness: DOD Needs to Better Manage Automatic Test Equipment Modernization," GAO-03-451, March 2003, the Under Secretary of Defense republished DOD policy for Automatic Test Systems (ATS). The "Automatic Test Systems Joint Memorandum of Agreement (MOA) among the Service Acquisition Executives" (Sept 04) was restated, establishing Navy PMA-260 as the DOD ATS Executive Director and WR-ALC/LEA (now the 742nd CBSG) at Warner Robins Air Logistics Center as the Air Force ATS Leadership Office.

The central theme in the GAO report is the need for commonality in automatic test systems/equipment. Air Force ATS/ATE requirements, whether for new, replacement, modification, Organizational, Intermediate, or Depot, will be coordinated through the 742nd CBSG/CC at WR-ALC for approval. The 742nd CBSG will either provide a solution to a program's ATS requirement or process a waiver through the DOD ATS Management Board (AMB) for approval. The DOD AMB will provide the ATS/ATE selection and acquisition recommendations to the Milestone Decision Authority or designated acquisition authority for final approval if the ATS acquisition involves a deviation from ATS policy.

The DOD AMB designated the Air Force's Versatile Depot Automatic Test Station (VDATS) as a DOD approved Family of Testers during the AMB meeting on 19 Sep 07. Program Managers can find the DOD ATS Policy, including the DOD ATS Selection Process Guide and the list of approved ATS Family of Testers, at <http://www.acq.osd.mil/ats>. ATS policy will be updated incorporating the designation of the 742nd CBSG as the Air Force ATS Leadership Office and ATS Product Group Manager, replacing SA-ALC/LDA.

Our staff (SAF/AQXA, DSN 425-7100; AF/A4MY, DSN 227-0294; and 742<sup>nd</sup> CBSG, DSN 472-2100) is prepared to assist you with this process.

  
SUE C. PAYTON  
Assistant Secretary of the Air Force  
(Acquisition)

  
WILLIAM C. ANDERSON  
Assistant Secretary of the Air Force  
(Installations, Environment & Logistics)

  
BRUCE CARLSON  
General, USAF  
Commander, Air Force Materiel Command

  
KEVIN J. SULLIVAN  
Lieutenant General, USAF  
DCS/Logistics, Installations & Mission Support

**DISTRIBUTION:**  
See Attached List

# ATS Transformation Standardization

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- **Under Repair Enterprise 21 approximately 90% avionics ATS systems migrate to WR-ALC**
    - **Bulk of our ATS will now be within a single fence line and command – great opportunity for standardization**
    - **Repair Enterprise 21 can be the ATS standardization forcing function for the Air Force**
    - **The challenge today is building the game plan and securing the funding to drive common ATS solutions**
      - **Standard families of test equipment in the field**
      - **Standard testers for depot maintenance**
-

# ATS Transformation

## Versatile Depot ATS (VDATS)

- AF developed common core depot ATS
- Open system architecture with modular H/W & S/W design
- Level III drawing package (Almost complete)
- COTS components
- Reduced maintenance footprint increasing workload capacity



**Maintenance is in the Business to Generate LRUs/SRUs –  
NOT FIXING ATS**

# ATS Transformation Versatile Depot ATS (VDATS)

Scheduled for Replacement

COMETS  
DTS-70  
MMTS  
WJ1560  
IFTE  
AN/ALM-261-A  
AN/ALM-261-B  
AN/ALM-258  
JSTARS DATSA  
DATSA (partial)  
IE390  
Genrad 1799  
Genrad 2225  
HP VXI Tester  
ALM205A  
ALM205B  
CARA  
AN/ALM-195  
LANTIRN Analog  
LANTIRN RFTS  
Schlumberger 790  
A-10 IATS Northrop AIS



## VDATS



**Performance Based Logistics Partnership with Industry is  
Key to Meeting Warfighter Production Requirements  
Seeking FY08 Funding for Depot ATS PBL Support**

# ATS Transformation Roadmap Plan of Attack

## ■ O-Level Maintenance – ID Families of Devices

- Reprogramming Tools
- Line Analyzers
- Armament Testers
- Flight Control Testers
- Nav/Targeting Testers
- Etc

Standard Testers by  
Functional Area

## ■ Depot Level Maintenance – ID Standard Depot Testers Under RE21

- VDATS
- BRAT
- Etc. Others

Increase Production Flexibility  
Focus on Generating LRUs/SRUs – Not Fixing ATE  
Implement PBL Support to Buy ATE Availability

## ■ Future Weapon Systems – what diagnostic tools/technologies are required to support the CSAF acquisition priorities

- KC-X
- CSAR-X
- Etc

Synthetic Instruments  
High Speed Fiber  
Sensors

# VDATS Update

## ■ Workload consolidation

- **Building ~58 VDATS ~(46 core DAs & 12 RF units) to replace 64 existing testers. Parts ordered for 18 stations.**
- **13 complete to date. First production station sold off 1 May**
- **Level 3 Drawings for VDATS almost complete**
- **First 2 TPSs complete 7 May.**

## ■ Standard WR-ALC avionics tester

- **VDATS can handle 95% of current depot workload**
- **Flexible hardware and software architectures that are expandable and tailorable**
- **Eliminates 25 different testers**

## ■ VDATS as Air Force Entry into DOD Family of Testers

- **Capable of supporting multiple weapon systems**
- **Cost effective solution desired**
- **Dedicated management office. Col. French now CM for VDATS**
  - **Col. French staff looking for Cost saving initiatives on VDATS**

# VDATS Update

- **RFI for “Build to Print” VDATS to industry May 2008**
  - **Plan to build out the balance of the 58 VDATS at WR.**
- **Out year money budgeted for this effort. Over 4-5 years.**
  - **Significant \$\$ budgeted for FY09 for VDATS Lab, TPS rehost that will be contracted out, PBL for VDATS**
- **Recent VDATS Sales**
  - **B-2 program purchased first VDATS with 8-12 to follow.**
  - **Raytheon purchased a VDATS for Mode 5 testing.**
  - **Global Hawk is purchasing VDATS for testing purpose**

# RE 21 Status

- **USAF Working Groups planning for CIRFs under RE 21**
  - Not tied to Navy FRC program, but will interface thru GLSC
  - Part of the Global Logistics Support Centers and LSC
  - Driving AF to a true 2-LM support structure, an eliminating I-Level at MOBs
  - More work to be pushed back to AFMC and ALCs
  - AFMC will own entire Supply and Maintenance repair chain
  - Ultimately USAF to stand up (10) CONUS CIRFs (5) Active, (1) ANG and (4) Integrated
  - Regional Supply Centers already established (1) Langley (1) Scott
  - SecAF directed AF to expedite RE21 (goal 2 years)
  
- **Bases Selected (still in work) for CONUS CIRFS**
  - Active
  - ANG/AFRES
  
- **Phase 1 focus on ALCs - Phase 2 more commodities and locations**
  
- **Consolidate SE at selected CIRF locations, excess eliminated from inventory**
  
- **Milestones for implementation of RE 21 Phase 1**
  - IOC FY 08
  - FOC FY 10
  
- **USAF leverage point for drive to Common ATE Families**

# News –Budget and Programs

- **FY 08 Defense Budget.**
  - **FY 08 Defense Budget \$645.6B, \$147B war effort, Core \$471B**
    - AF \$110.7B plus war supplements, FY09 expected to be \$116B
    - [President signed \\$555B Defense Bill 26 Dec, Full appropriation Jan 08](#)
    - Over \$100M AF Depot MX funds & \$207M working capital cut to pay for MRAPs
  - **In the process of building FY10 POM**
    - **USAF \$100B shortfall over next 6 years, \$310B DoD total**
- **Top 5 USAF requirements:**
  - KC-X Tanker Replacement - [Awarded 29Feb 08 NGC/EADS \(Airbus\)](#)
    - [Boeing GAO Protest 11 March \(irregularities in Eval/Competitive Process\) \(19 June GAO response\)](#)
    - First AC on the ramp by NLT 2010
    - Initial award for upward of ~183 AC
  - NOTE: Tanker designation KC-45A
  - NOTE: EADS 330 Tanker sales [Saudi](#), [Australia](#), [Britain](#) and [UAE](#)  
[Boeing 767 Tanker Italy](#) and [Japan](#)
  - CSAR-X Re-solicit amended [RFP Nov 07 – Award delayed again](#)
    - 141 Helos
  - Satellites for Early Warning/Com
  - F-35
    - [GAO report Over budget/Behind schedule \(First AC to USAF 2010\)](#)
    - [LRIP 2 Approved June 08 12 AC 6A/6B](#)
    - Remains a congressional target
  - NGLRS (2018)
    - [No 2009 \\$, \\$ 2010, Appears little National Will and USAF support.](#)
    - AoA complete, [Current technology as of 1 Jan 09](#)
    - Potential merge with Prompt Global Strike Requirement (PGS)
    - Current technology, PGS ICBM with Conventional war head
- **AF Strategic Plan**
  - **Unveiled Strategic Paper by Gen Mosley 7 Feb**
  - **Addresses USAF Air, Space, Cyber Space structure/vision beyond QDR for next 20 years**
  - **Expect a smaller CAF going forward**

# News- Budgets and Programs

- **FY 09 Defense Budget submitted**
  - **Core Budget \$515.4B, \$36B and 7.5% higher than 08**
    - Total AF is \$143.9B, 7% higher than FY08
  - **Total \$651.2 (\$705.7)\* with plus-ups for war (Highest since WWII)**
- **Highlights**
  - **Procurements \$104B, \$21.4B for AF**
  - **R&D \$80B, \$20B AF**
  - **\$68B Com & Mission Support Systems**
  - **\$45.6B Aircraft**
- **\$18.7B Unfunded AF Requirements Highlights FY 2009**
  - **\$3.9B (15) C-17 Decision deferred to next Admin**
  - **\$1.1B (4) F-22 plus Material for (~20+)? Decision on F-22 deferred to next administration**
  - **\$800M (5+6) F-35**
  - **\$275M A-10 Engines**
  - **\$438M F-15 Modifications**
  - **\$600M More Global Hawks**
  - **\$668M Depot Mx**
- **AF still short \$20B a year, for AC recapitalization needs**

**NOTE: Subject to Congressional approval – TBD**

**AF expects future Budgets to be lower**

# Modernization/Sustainment

- **Modernization/Sustainment efforts (See FY 09 Unfunded Requirements)\***
  - **F-22 is ramping up next base at Elmendorf Alaska, Hickam AFB, HI**
    - There will be initially 7 Squadrons
    - 100+ AC delivered to date
    - F-22 FOC 12 Dec 07 Fully Combat Ready
  - **JSF program LRIP 19 April \$275M, LRIP 2 - June 08 \$2.2B**
    - First AF Mx cadre at Edwards to begin training
    - 2010 first USAF AC
    - 2015 FRP Planned
  
- **NOTE:** F-15 Grounding could have impact going forward on F-15 Fleet and F-22 decisions
  - Bulk of fleet back in service
  - Aircraft to go thru a full Fatigue test/analysis
  - \$ saved from F-22 line shut down possibly spent on Rehab F-15
  - Start retirement of A&B this year and into FY09 (49) AC
  
- F-16 Retirements FY08-FY09 (80) AC
- F-117 Retired and out of fleet May 2008
- **C-17 Production funded for (~20) additional AC(191), ~10 USAF, 3 NATO, + FMS**
  - Last funded C-17 Aug 2009, (no funding in 2009 Budget, Boeing \$ to keep line open)
  - Boeing awarded \$1.3B 5 year extension on PE/PI in Jan 08
- **C-130J production continues for SOF requirements want ~115 AC**
- **Major upgrades to E-3, JSTARS (ISR), C-5 along with F-22 and F-35 ISR**
- **Expand UAV fleets (AF pushing to manage all UAVs)**
- **B-52 EW Jammer and E-10 back on the table**
- **Joint Cargo Aircraft (USAF taking lead on program)**
- **MV/CV-22 Multi year production award \$10.4B 141/26**
  
- **There has been a ~15% reduction in USAF Aircraft Mission Readiness at a cost of 87% increase in Dollars to sustain an older fleet.**
- **Depot \$ for Maintenance now funded at 74% of the requirement.**

# Modernization-cont.

- **AF plans to certify FT Fuel on all USAF aircraft by 2011 (Accelerating program)**
- FT is Natural Gas and Coal to Synthetic Fuel
  - B-52 and C-17 Certified FT Fuel
  - B-1B first AC to fly Supersonic on FT fuel Mar 2008
  - F-100 Engine tested 29 April 08
  - Boeing test in Commercial fleet within next 5 years-26 Feb Biofuel test Virgin 747- Continental 2009
  - A380 being certified on GTL this year
    - Airbus, Honeywell, Int'l Aero Eng & Jet Blue working 2<sup>nd</sup> generation Biofuels
    - Vegetation/Algae oils – Do not compete with food production
  - Major Oil Companies involved, Shell (Qatar Facility) – Chevron-Others
  - WR Testing Hydrogen fuel cell Technology , (AF Advanced Power Technology Office)

## Historical NOTE:

- 20 Dec 1957, first Boeing 707 flew, based on Boeing KC-135.
- B-52s to begin rotation to Nuclear mission again.
  
- Gen. Mosley and M. Wynn Resigned 5 June



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