
AFLCMC... Providing the Warfighter's Edge



USAF Automatic Test Systems (ATS) Program Office

NDIA Update
17 APR 18

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Automatic Test Systems (ATS) Agenda



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- ATS/PGM Update
 - Org Structure
 - Overview
 - Family of Testers Update
 - Initiatives on the Horizon
 - Cybersecurity



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Operational Command Structure



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AIR FORCE MAJOR COMMANDS



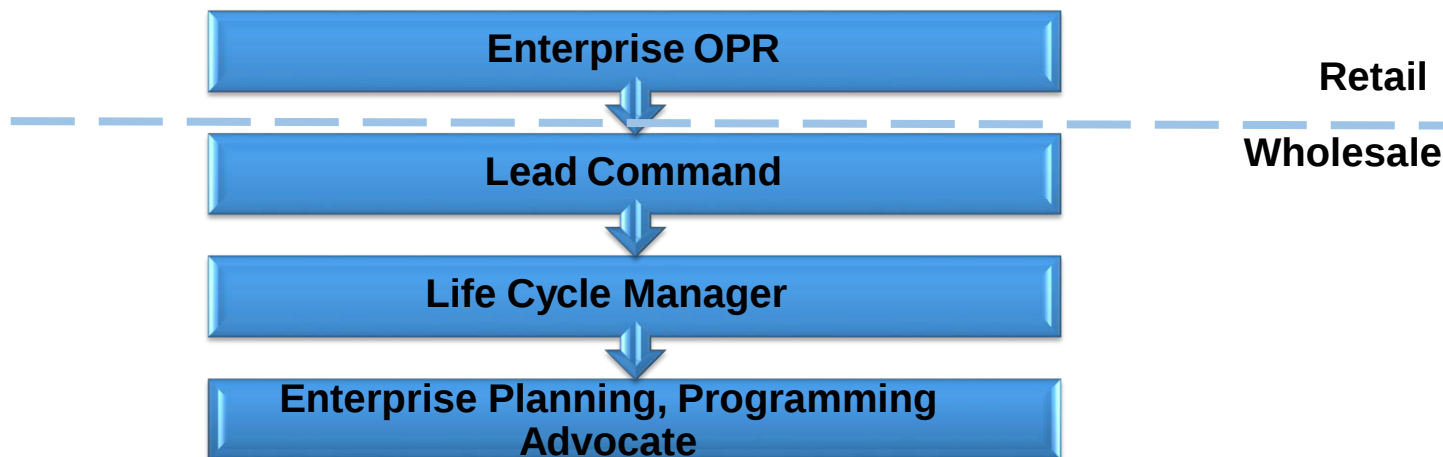
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Clarifying Lead Command and Centralization

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AFMC Major Process Flow:



Feedback loops exist at all levels

Constitutes Centralized Management/Improves Warfighter Support



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AFMC's Role

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Nuclear



Nuclear Systems Management
And Life Cycle Management

Technology



Discover and Develop

Life Cycle
Management



Acquire and Support
War-Winning Capabilities
"Cradle-to-Grave"

Test & Evaluation



Perform World-Class Test and
Evaluation

Sustainment



Sustain Air Force Capabilities
through World-Class Depot
Maintenance & Supply

Installation
& Mission Support



Responsive Installation and
Mission Support to
Commanders, Airmen & Families



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Agile Combat Support Directorate



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CMSgt Jonathan Redfern
Chief Enlisted Manager



Colonel James Moore
Deputy Director



Colonel Brady Hauboldt
PEO/Director



Colonel Bernard Willis
Director's Senior IMA



Mr. Neil Erno
Chief, AFMETCAL



Mr. Jimmy Bailey
Chief, Auto Test Sys



Colonel James Wilson
Chief, EW & AV



Mr. Emilio Varcarel
Chief, Human Systems



Colonel Philip Carpenter
Chief, Simulators



Colonel Donna Pilson
Chief, Spt Equip/Veh



Mr. Thomas Shaffer
Chief, Contracting –
WPAFB



Mr. Marty Ledden
Chief, Contracting –
Robins AFB



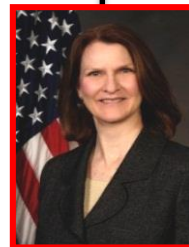
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Chief, Financial
Management



**Ms. Jacqueline
Janning-Lask**
Director of Engineering



TBD
Chief, Logistics



Ms. JoAnn Freburg
Chief, Management
Operations



Mr. Dennis Deitner
Chief, Portfolio
Analysis



Mr. Ron Hannan
Chief, Security



Mr. Steven Peden
Chief, FMS

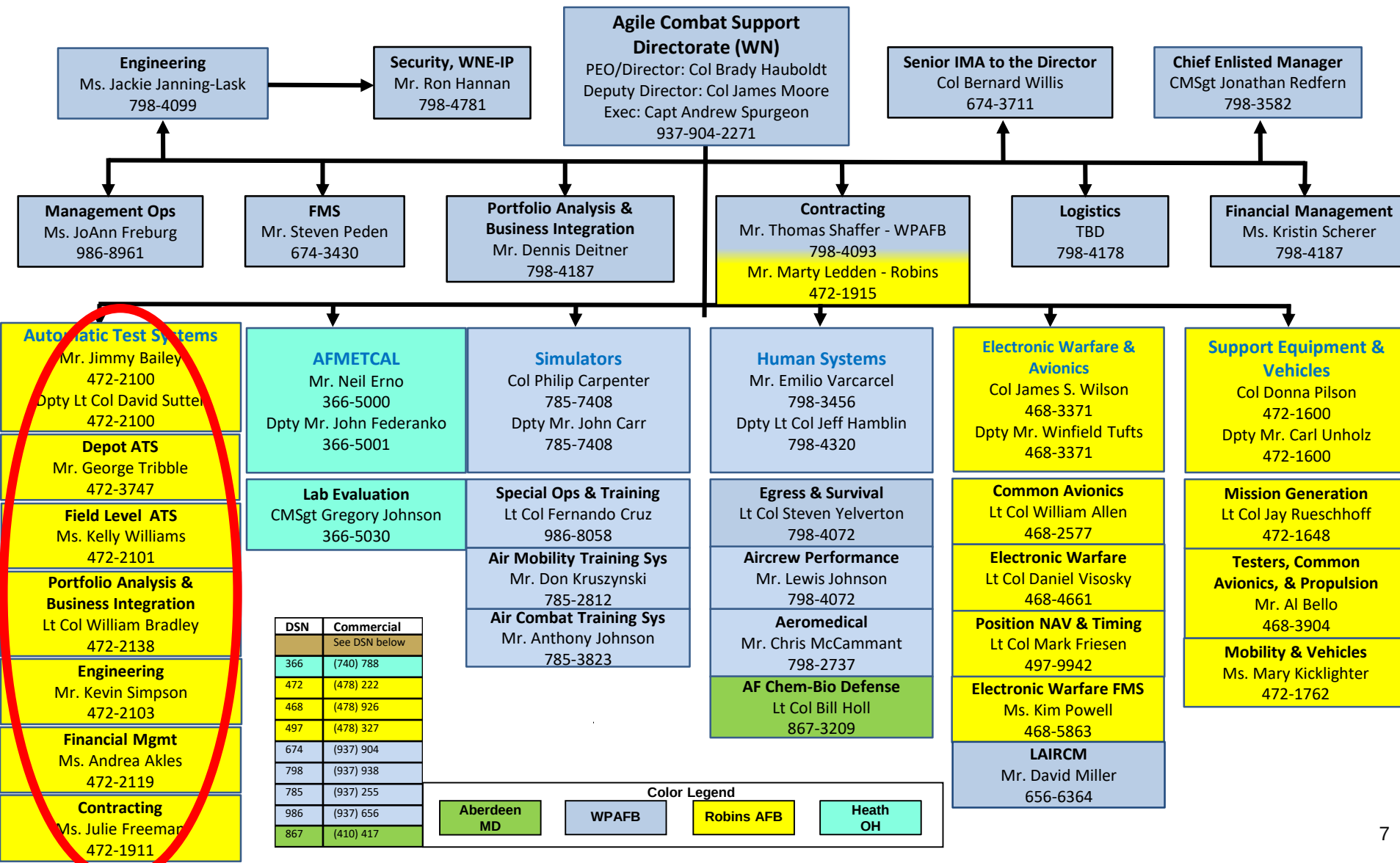
Revised: 2 April 2018



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Agile Combat Support Organizational Chart

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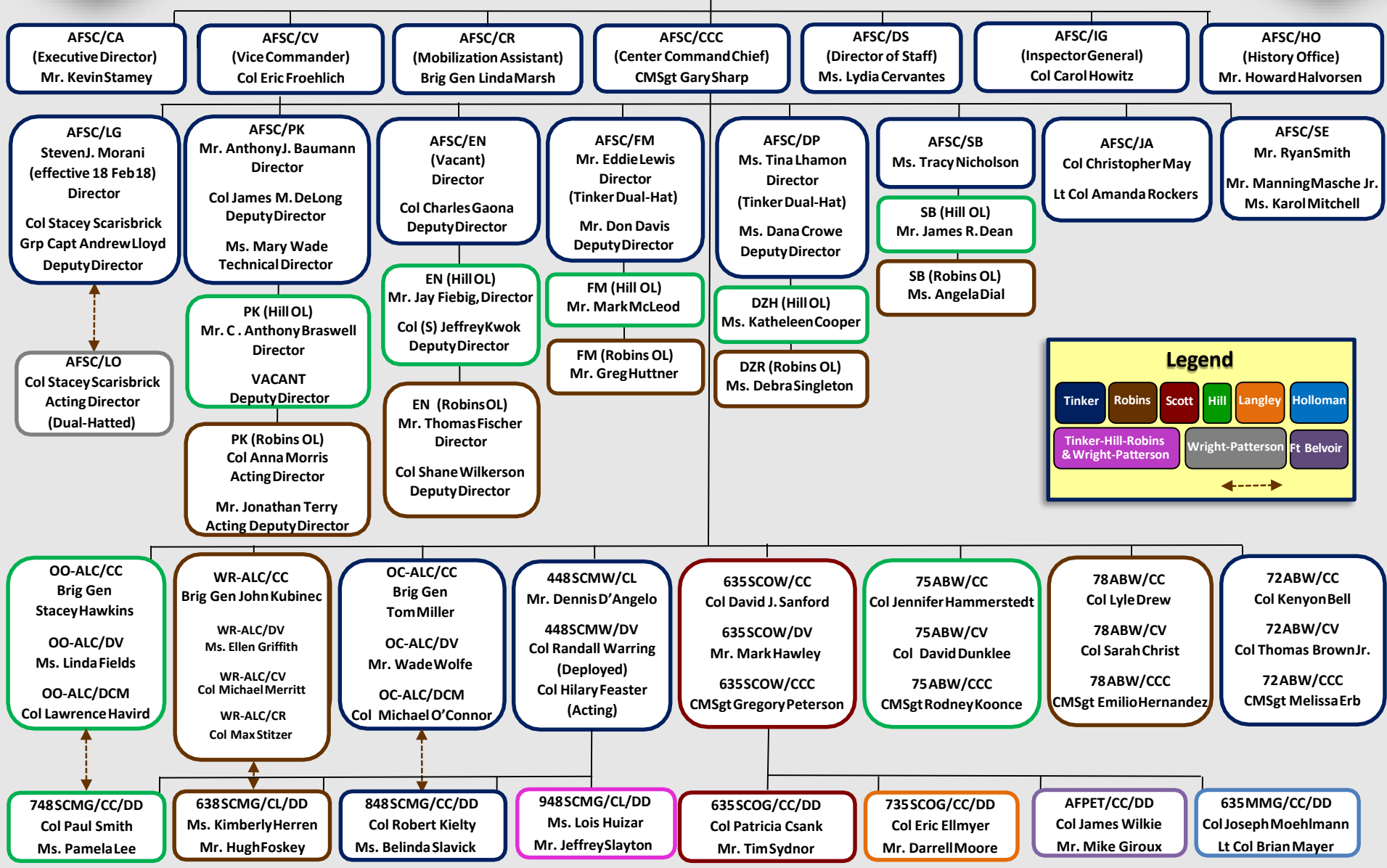
Installation
& Mission Support



Responsive Installation and
Mission Support to
Commanders, Airmen & Families



AFSC/CC (Air Force Sustainment Center) Lt Gen Lee Levy II





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Automatic Test Systems Site Picture



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- Product Group Manager (PGM) for ATS
- ATS Program Office executed \$130M in FY17 - DoD
 - Multiple funding sources/funding types
- By the Numbers
 - Personnel – 130 (Robins & Hill AFBs)
 - 4 Product Lines, 51 Programs/Groups (7,775 Configured Items)
 - Organizational Level (Flightline)
 - Intermediate Level (Backshop)
 - Depot Level (ALCs)
 - Test Measurement & Diagnostics Equipment (TMDE)
 - Five AML (ACAT III) Programs
 - Tech Orders – 12K
 - ATS Selection Requirements Analysis – 25/year
- Major Acquisition/Mod Programs
 - Bomber Armament Tester (BAT)*
 - Common Aircraft Portable Reprogramming Equipment Secure Memory Loader Verifier (CAPRE SMLV)*
 - Versatile Diagnostic Automatic Test Station (VDATS)*
 - B-1B Advanced Radar/Electronic Warfare Test Station (ARTS)*
 - A-10 Portable Automated Test Station (PATs-70)*
 - Joint Service Electronic Combat Systems Tester (JSECST)



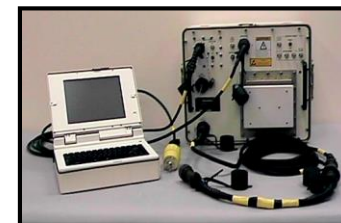
Versatile Diagnostic Automatic Test Station



Benchtop Reconfigurable Automatic Tester



Cruise Missile Radar Altimeter Test Assembly



Common Munitions Bit Reprogramming Equipment



Joint Service Electronic Combat Systems Tester



Common Aircraft Portable Reprogramming Equipment



Identify Friend or Foe



Common Organizational Level Tester

* AML Program

No mission success without ATS!



A-10



C-17



E-3



MQ-9



B-1B



C-5



F-15



MQ-1



B-2

Air Force ATS Program Office User Fleet



KC-135



CV-22



F-16



C-130



E-8C



F-22



RQ-4



B-52



HH-60G



T-38



UH-1

ATS supporting users at field and depot locations



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DoD AF Family of Testers (FoT)



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- **Joint Service Electronic Combat System Tester (JSECST) - Textron**
 - 2 configurations: AN/USM-670 and AN/USM-670A
 - Initial Fielding: 2001 (AN/USM-670) and 2016 (AN/USM-670A)
 - Assets: 600+ DoD, 200 Air Force
 - Production of 670A testers: 57; Retrofit kits: 170 delivered to date
 - CCB approval for retrofit kit installation completed Nov 16
 - Robins AFB Depot kit installed: 12 retrofits to date
 - Repair contract (2 yrs) awarded Apr 08
 - New production contract in work



↖ JSECST

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DoD AF Family of Testers (FoT)



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VDATS

DA-2

RF-1



- **Versatile Diagnostic Automatic Test Station (VDATS®)**
 - **VDATS® Core Configurations:** DA-1 and DA-2
 - **VDATS® Production Deliveries:**
 - 148 VDATS fielded to date; 10 DA stations in manufacturing for upcoming new requirements
 - **VDATS® Customers:** AF Depots (Robins ALC, Tinker ALC and Ogden ALC), Tobyhanna Army Depot, BAE and currently one intermediate level location (Whiteman)
 - Approximately 1,250+ TPSs developed & approved for use on VDATS® to date
 - VDATS® currently supports over 30 weapon system workloads for numerous aircraft platforms
 - Recent Program Activities
 - M9 Series Digital Test Instrument (DTI) obsolescence; approved upgraded to a Di Series DTI card for production
 - Accepted new orders from Predator/Reaper Program Office



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DoD AF Family of Testers (FoT)

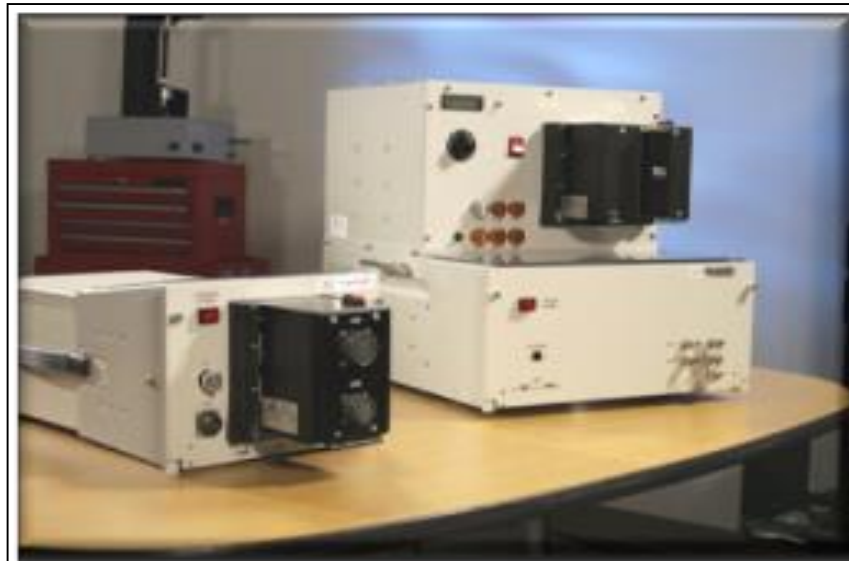


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- **Common Benchtop Automatic Test Systems (CBATS)**
 - PXI based systems with 2 configurations
 - 101: (70) deployed at Hill AFB and Kadena AFB
 - 201: (60) deployed at Hill AFB, Kadena AFB, and Robins AFB
 - CBATS DXR Roll-up – In use at Ogden ALC
 - Currently on hold for FoT referral
 - Need to improve sustainability
 - Infrastructure must be in place

CBATS

101



CBATS

201



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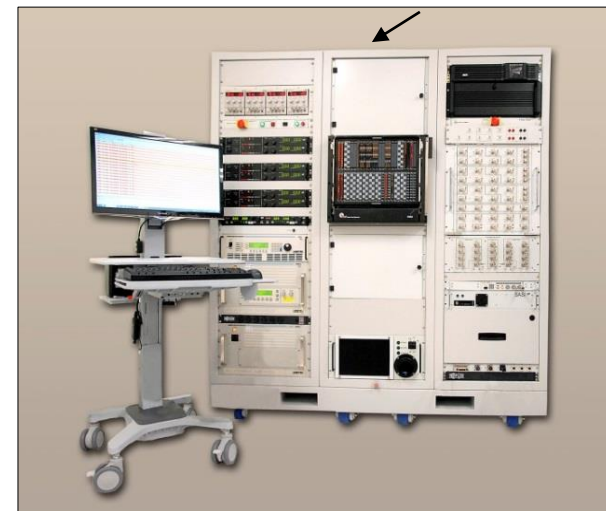
ATS Portfolio

AF Family of Testers (FoT)



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ARTS

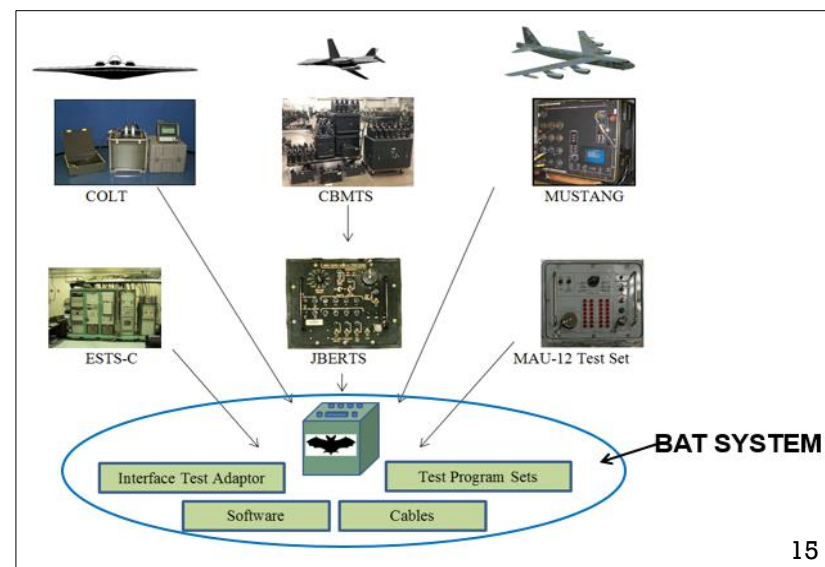


- **Advanced Radar/Electronic Warfare Test Station (ARTS) - Textron**

- 5 years ICS – FY18
- 20 of 24 total systems delivered to the field
- TPS development ongoing
 - 2 of 24 TPSs fielded

- **Bomber Armament Tester (BAT) - BAE Systems**

- O-Level Testers/I-Level Testers
- Supports B-52/B-1/B-2; decrease number of testers for each platform
- Contract awarded Sep 17
 - System Requirements Review – Mar 18





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ATS Portfolio

AF Family of Testers (FoT)



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- **Common Aircraft Portable Reprogramming Equipment (CAPRE)**

- 29 weapon systems supported
- Potential users: CRH, KC-10, KC-46

- **CAPRE Secure Memory Loader Verifier (SMLV) - ACAT III**

- Initiated to enhance cybersecurity
- Rehost F-16 MLV requirements in work
- Field refurbished hardware starting in 2020

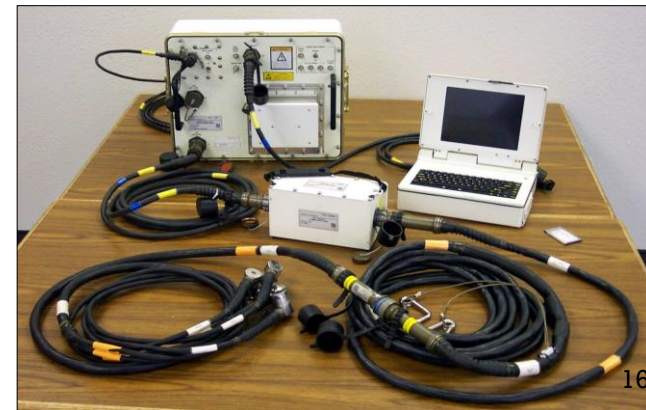


← CAPRE

- **Common Munitions BIT Reprogramming Equipment (CMBRE) – Northrop Grumman**

- 600+ CMBRE unit fielded supporting 18+ weapon systems
- Organic CMBRE Service Life Extension Program (SLEP) - ongoing development to address obsolescence
 - SLEP to field in phased approach starting in 2020

← CMBRE





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ATS Future Initiatives (RFP)



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- Analysis for Common Armament Tester - Fighter (CAT-F) - **Competitive**
- JSECST Production - Sole Source, **Textron Systems**
- Control Test Set Sustainment (A-10) - Sole Source, **Command Technical Services Inc. (CTSI)**
- B-1B DAAE Repair - Sole Source, **Harris Corporation**
- B-1B ARTS ICS - Sole Source, - **Textron Systems**
- Electrical Electronic Equipment Test Station (EETS) - **Competitive**
- PLM-4 Strategic Buy/Repair Contract - Sole Source, **Harris Corporation**
- CMBRE Production Contract - Sole Source, **Northrop Grumman**
- B-1B ADTS & EPCAT - **Competitive**
- CMBRE SLEP Production/ICS - **Competitive**
- ATS Product Support Requirements Contract - **BAE Systems**



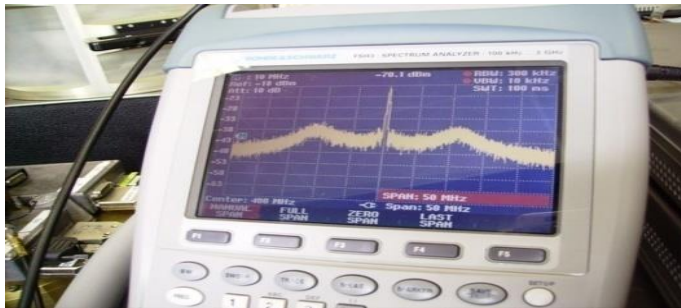
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Cyber Security Purity (CSP)



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- What assurance do I have when I open the “box” that the instrument is free of malware?
- Would like industry to collaborate on a set of standards “1.0” to provide assurance of initial purity
- CSP standard will give all users assurance that the instruments used start operations free of malware



Must be VIRUS FREE at the instrument level to ensure purity of ATS



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ATS PGM Updates



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- **Agile Combat Support (ACS) Leadership**
 - **Outgoing PEO: Ms. Lynda Rutledge, assigned as AFLCMC Mobility PEO**
 - **Incoming PEO: Col Bradley Hauboldt, reassigned from Deputy PEO to PEO**
 - **Incoming Deputy PEO: Col James Moore**
- **ATS Leadership**
 - **ATS Program Office Chief: Mr. Jimmy Bailey**
 - **ATS Deputy Chief: Lt Col David Sutter**
 - **ATS Deputy Chief, Nuclear: Mr. David Hand**

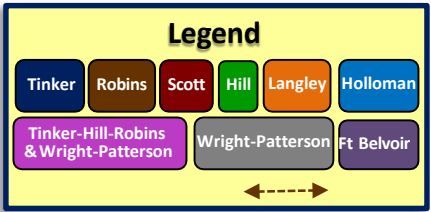
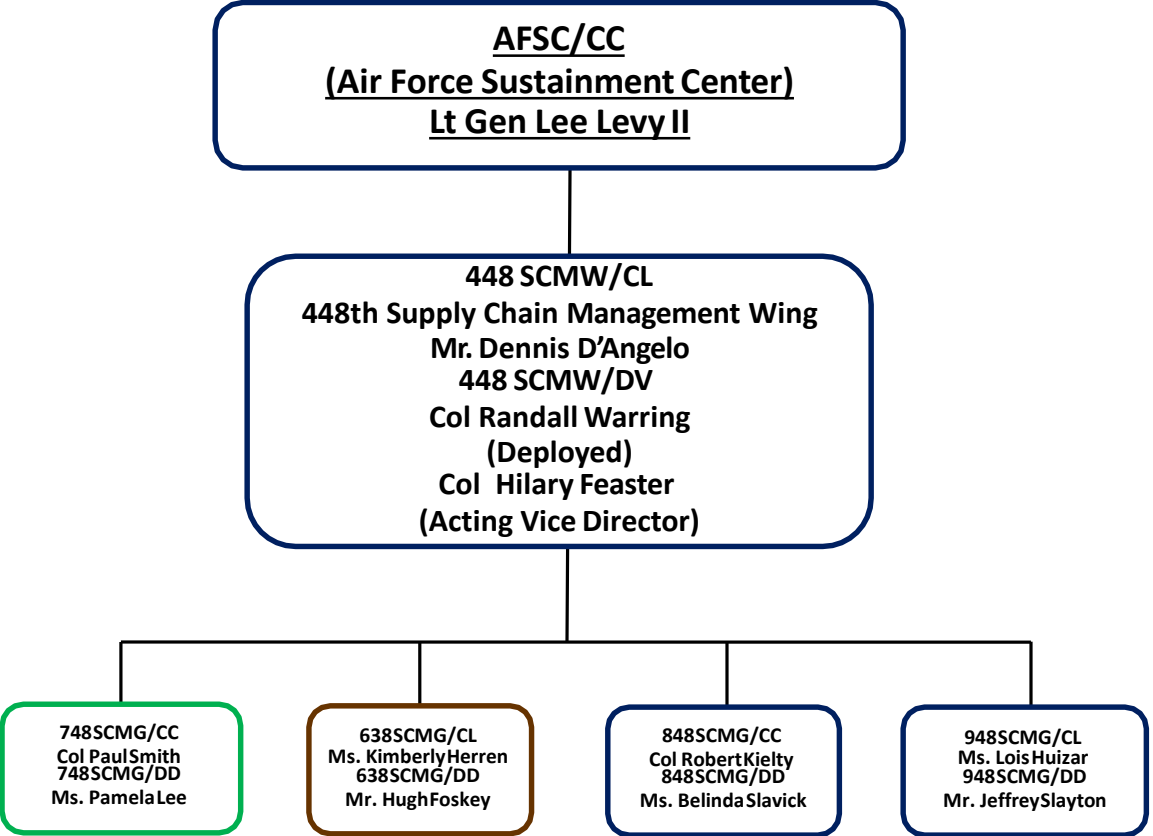


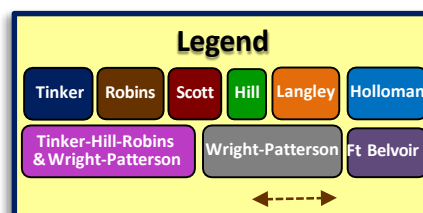
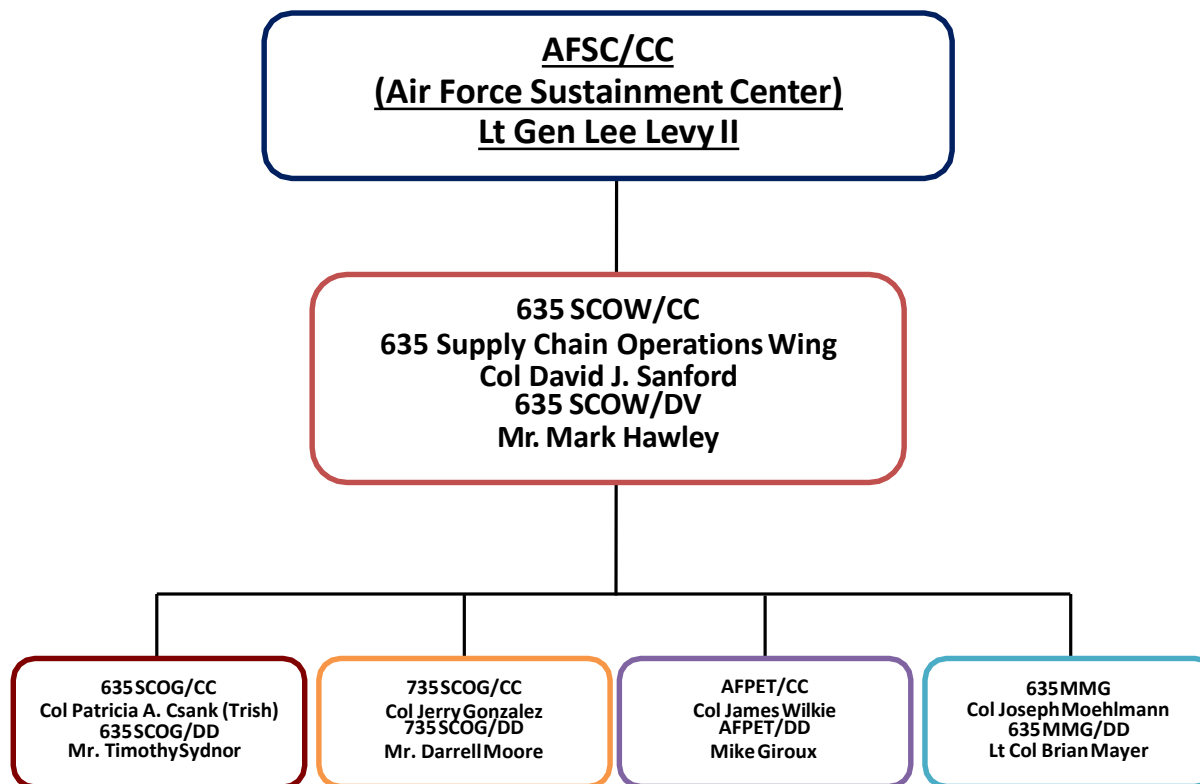
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Questions ???







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Ms. Janis Wood
OC-ALC/DCM
Col Michael O-Connor

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OC-ALC/SE/CL
Mr. Aaron Wilkerson

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OC-ALC/QA
Mr. Dan McCabe

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OC-ALC/OB
Mr. Paul Victorian
Ms. Debi Kirkpatrick

Engineering Office
OC-ALC/EN
Dr. Kristian Olivero

Director of Staff
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Ms. Renee Huddleston

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Ms. Brenda Jones

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Ms. Winnifred Walden

76 Aircraft Maintenance Group
76AMXG/CC
Col Michael P. Allison
76AMXG/DD
Ms. Theresa Farris
76AMXG/CD
Lt Col Rofelio Grinston

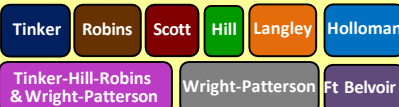
76th Commodities Maintenance Group
76CMXG/CC
Col James D. Petrick
76CMXG/DD
Mr. Michael Mowles
76CMXG/CD
Lt Col April Mench

76th Propulsion Maintenance Group
76PMXG/CL
Mr. Robert Helgeson
76PMXG/CD
Lt Col Andrew Griffin

76th Maintenance Support Group
76MXSG/CL
Ms. Kelley Butler
76MXSG/DD
Mr. Bruno Morf

76th Software Maintenance Group
76SMXG/CL
Mr. Michael Jennings
76SMXG/DD
Mr. Brian Hopkins

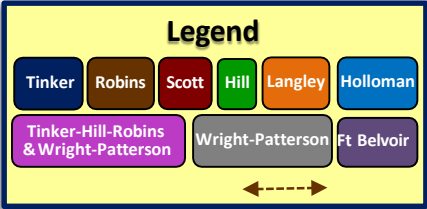
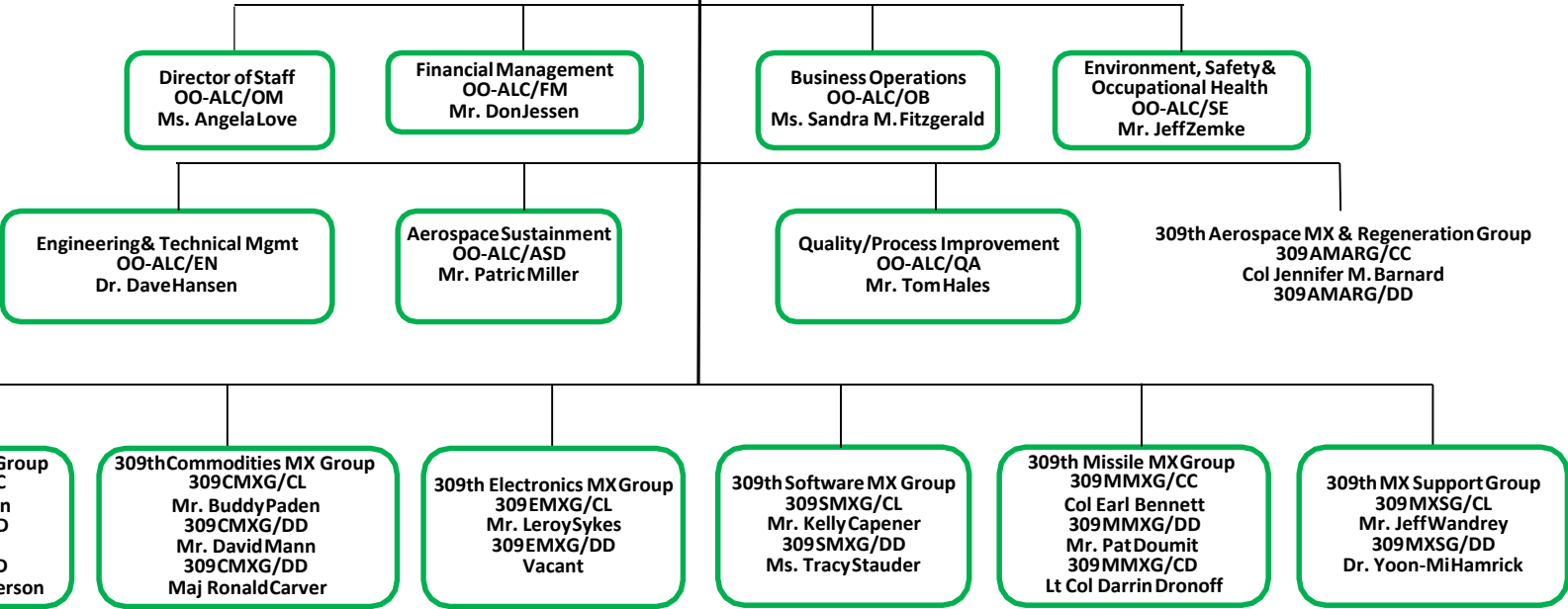
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Ogden-Air Logistics Complex
Brig Gen Stacey T. Hawkins
OO-ALC/DV
Ms. Linda Fields
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Col Lawrence Havird





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Warner Robins-Air Logistics Complex
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WR-ALC/CR
Col Max Stitzer

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Ms. Liane Benoit (Acting)

Director of Safety
Mr. James Hogan

Business Operations
Mr. Ronald M Johnson

Management Operations
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Aerospace Sustainment Directorate
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402AMXG/CC
Col Jeff Martin
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Mr. William Best

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Ms. Dana Stanley
402MXSG/DD
Mr. Jesse Edge

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402SMXG/CL
Ms. Donna Frazier
402SMXG/DD
Mr. Bob Herrmann

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