



Aviation Systems Project Office

Colonel Mathew Hannah

Project Manager

Mr. Jimmy Downs

Deputy Project Manager



Aviation Systems Portfolio



Affects Every Aviation Platform
49 Distinct Product Lines
\$572M FY18 Annual Budget

AVIATION NETWORKS & MISSION PLANNING

- 304B Improved Data Modem (IDM)
- OSA-401
- Centralized Aviation Flight Records System (CAFRS)
- Aircraft Notebook System (ACN)
- Aviation Data Exploitation Capability (ADEC)
- Aviation Mission Planning System (AMPS)

AVIATION MISSION EQUIPMENT

- Blue Force Tracking Aviation 1 (BFT-1)
- Blue Force Tracking Aviation 2 (BFT-2)
- Embedded GPS Inertial Navigation (EGI)
- Single Channel Ground & Airborne Radio System (SINCGARS) AN/ARC-201D
- Doppler GPS Navigation System (DGNS) with GPS P31
- Common Transponders (CXP) APX-118/123/123A
- AN/ARC-220 HF Radio
- Multi-Mode Aviation Radio System (AN/ARC-231) (MARS)
- System Has Not Been Selected
- Airborne Maritime Fixed-Small Airborne Networking Radio (AMF-SANR)

AVIATION GROUND SUPPORT EQUIPMENT

- Flexible Engine Diagnostic System (FEDS)
- Auxiliary Ground Power Unit (AGPU)
- Aviation Light Utility Mobile Maintenance Cart (ALUMMC) Airmobile-Enhanced (Modified)
- Tool Set, Aviation Unit Maintenance: No.2
- Pitot Static Test Set (PSTS)
- Shop Equipment Contact Maintenance (SECM)
- Standard Aircraft Towing System (SATS)
- Digital Aircraft Weighing Station (DAWS)
- Aviation Vibration Analyzer (AVA)
- Generic Aircraft Nitrogen Generator (GANG)
- Aviation Intermediate Maintenance Shop Set (AVIM SS)
- Self-Propelled Crane, Act Maint & Positioning Incr. II (SCAMP II)
- Fuel Quantity Test Set (FQTS)
- Battle Damage Assess & Repair System (BDAR)
- Non-Destructive Test Equipment (NDTE)
- Common Aviation Tool System (CATS)
- Unit Maintenance Aerial Recovery Kit (UMARK)
- New Aviation Tool Set II (NATS II) / Aviation Foot Locker (AFL)
- Aircraft Cleaning and De-Icing System (ACDS)

Notional

DEGRADED VISUAL ENVIRONMENT

AIR TRAFFIC CONTROL

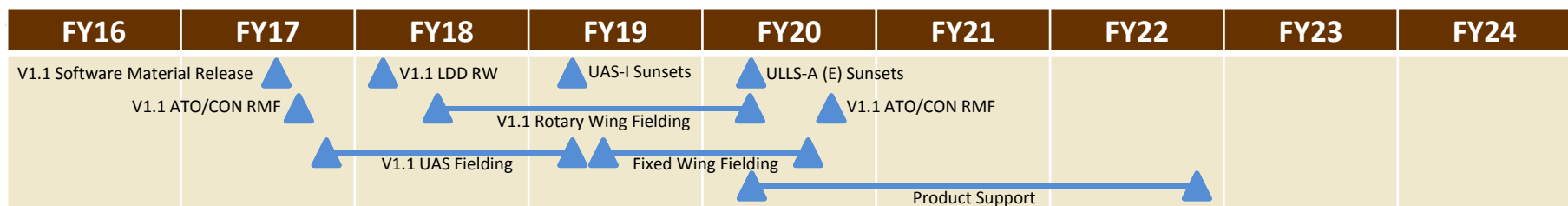
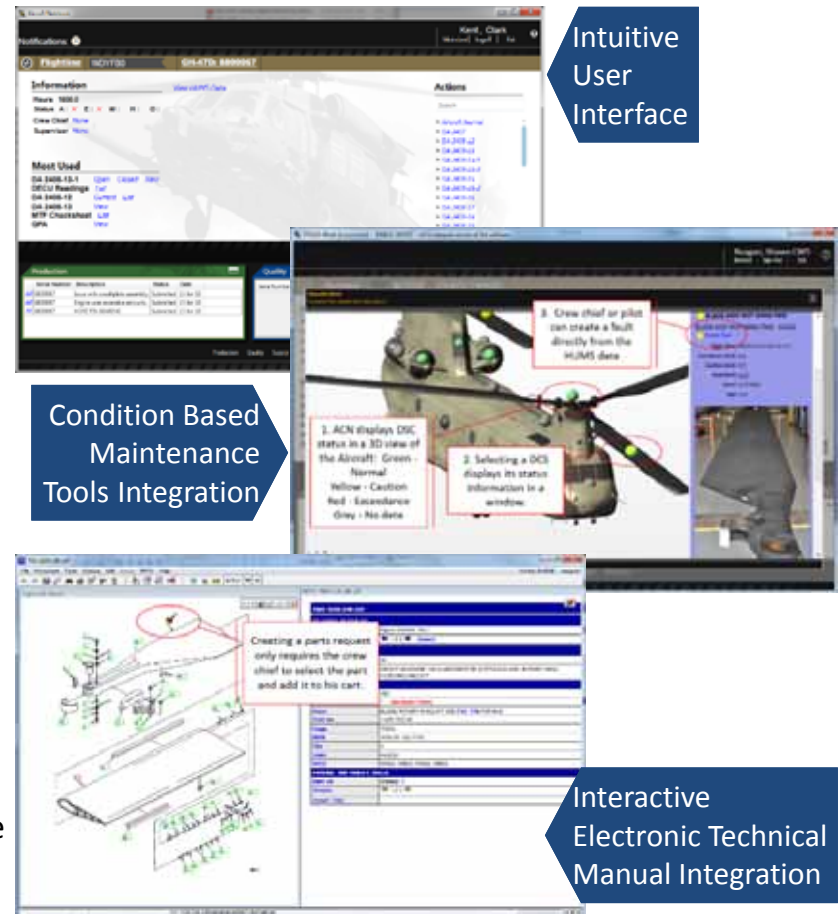
- Tactical Terminal Control System (TTCS)
- Mobile Tower System (MOTS)
- 7A Tactical Tower (Divesting)
- Tactical Airspace Integration System (TAIS) AN/TSQ-221
- TAIS Airspace Workstation (AWS) AN/FSQ-211
- Non-Directional Beacon (NDB) (Divesting)
- Air Traffic Navigation, Integration Coordination System (ATNAVICS)
- Fixed Base Precision Approach Radar (FBPAR) AN/FPN-67
- DoD Advanced Automation System (DAAS) Pre-Planned Product Improvement (P31)
- Interim Voice Switch Replacement (IVSR)
- Army Airfield Automation System (AAAS)
- Radio Replacement Program (RRP)
- Air Traffic Control Common Simulator (ACS)
- Instrument Landing System (ILS) With Distance Measuring Equipment (DME)
- Doppler Very High Frequency Omni Directional Range (DVOR) with Distance Measuring Equipment (DME)
- Digital Airport Surveillance Radar (DASR)



Aircraft Notebook (ACN)



- Manages maintenance activities and record keeping to maintain airworthiness of all U.S. Army aircraft
- Simplifies the recording of maintenance actions, initiating work and supply requests, leveraging reference material from maintenance manuals
- Government Owned - Developed by AMRDEC SED
- Currently fielding to UH-72A Lakota, Fixed Wing, and UAS aircraft
- Migrating to GCSS-Army Increment 2 as its “at-platform” application and user interface
- Operates in connected and disconnected modes
- Data synchronizes continuously while connected
- Streamlines Aircraft Phase Inspection
- Integrated with Interactive Electronic Technical Manuals
- Integrated with platform Digital Source Collector ground station software
- Entry point for recording Conditioned Based Maintenance (CBM)



PM Aviation Systems – Enabling Army Aviation



Aviation Systems Fielding Efforts



The Aviation Systems Project Office has completed over 35,070 fielding actions in FY17 across 14 systems to all three components; Active Army, Army National Guard, and Army Reserve

Product Office	Product	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	FY17 Total
Aviation Mission Equipment	Multi-Mode Aviation Radio System (MARS) AN/ARC-231	3	8	7	5	5	9	5	10	6	7	4	7	76
	Common Transponders (CXP) APX-118/123/123A		39	26	113	21	44	43	36	18	10	30		380
	Blue Force Tracking - Aviation 2 (BFT-A 2)	17	30	25	29	20	29	21	25	16	10	4	6	232
Air Traffic Control	Mobile Tower System (MOTS)	2			2		2		2	2		1	1	12
	Tactical Terminal Control System (TTCS)				2		1		2	2	2	4		13
Aviation Ground Support Equipment	Common Aviation Tool System (CATS)	1,963			4,639	4,985	6,178					13,695		31,460
	Unit Maintenance Aerial Recovery Kit (UMARK)						18			35	46		53	152
	Non-Destructive Test Equipment (NDTE)										69			69
	Aviation Light Utility Mobile Maintenance Cart (ALUMMC)			513						691			795	1,999
Aviation Networks & Mission Planning	Aircraft Notebook System (ACN)											147		147
	Centralized Aviation Flight Records System (CAFRS)					1	1	1	1	2	2	2	2	12
	Aviation Mission Planning System (AMPS)								168			126		294
	Aviation Data Exploitation Capability (ADEC)													0
	Improved Data Modem (IDM) (w/BFT-2)	17	30	25	29	20	29	21	25	16	10	4	6	232
Totals		2,002	107	596	4,819	5,052	6,311	91	269	788	156	14,017	870	35,078

PM Aviation Systems – Enabling Army Aviation

Fieldings include new systems, software, and MWOs



Aviation Systems Fielding Efforts



- Unit Readiness focused Modification Work Order (MWO) execution
 - Optimized MWO Scheduling
 - Schedules are developed that leverage the simultaneous installation of different MWO's
 - Leveraging DEPOT Maintenance
 - MWOs performed in conjunction with Depot level maintenance efforts
 - Block Mods
 - Closely collaborate with other the Platform and System Program Managers to consolidate mods into one MWO install
 - Leveraged efforts
 - Design MWOs with provisions for follow on MWOs in order to reduce installation times

- Quarterly Aviation Synchronization Meeting (QASM)
 - Integrate Aviation Systems 14 different Materiel fielding's and MWOs with the Operating force during the Army's Quarterly Aviation Synchronization Meeting
 - Actively engage Army Staff, FORSCOM Staff, and CORP Staffs



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Questions?