

nited States Air



AFCEA New Horizons 2017



Case Number: 66ABG-2017-0025

Major General Dwyer Dennis AFPEO C3I&N

Providing the Warfighter's Edge



PEO C3I&N Mission Areas and Portfolio



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Mission Areas:

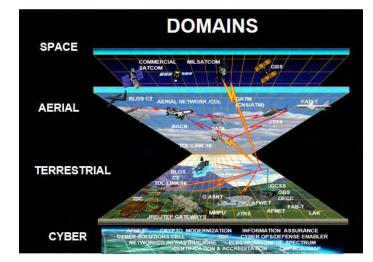
IT Infrastructure and Services Offensive and Defensive Cyber COMSEC Data Links AFNET OPS Crypto Systems Aerial Networks Special Projects

Portfolio:

- 231 Workload Master List Programs
 - 1 ACAT I
 - 10 ACAT III
- 64 Investment Master List Program
- 55+ Services Contracts valued at \$3.3B
- 4 JUON's/QRC's
- 6.9 Billion (FY17-22)
- 13 Direct FMS Cases
 - 170+ lines on ~ 130 additional FMS Cases

Org/People:

- ~2200 Personnel
 - 5 Divisions / 7 Major locations







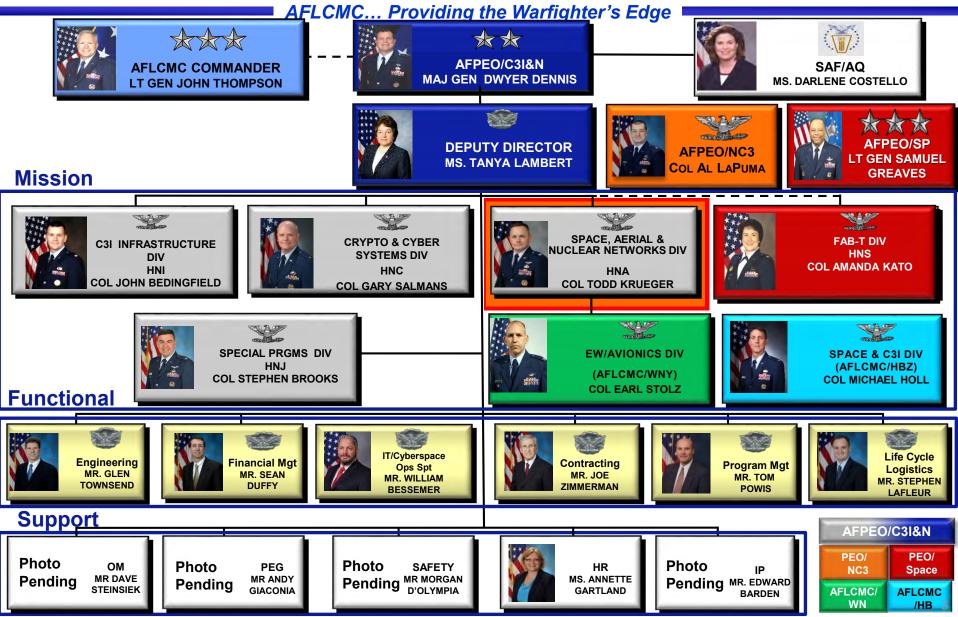


MISSION: Connecting Warfighters with Affordable, Secure & War-Winning Cyber, C3I & Network Systems 2



C3I&N Leadership Team







PEO/C3I&N Workload Master List (WML)



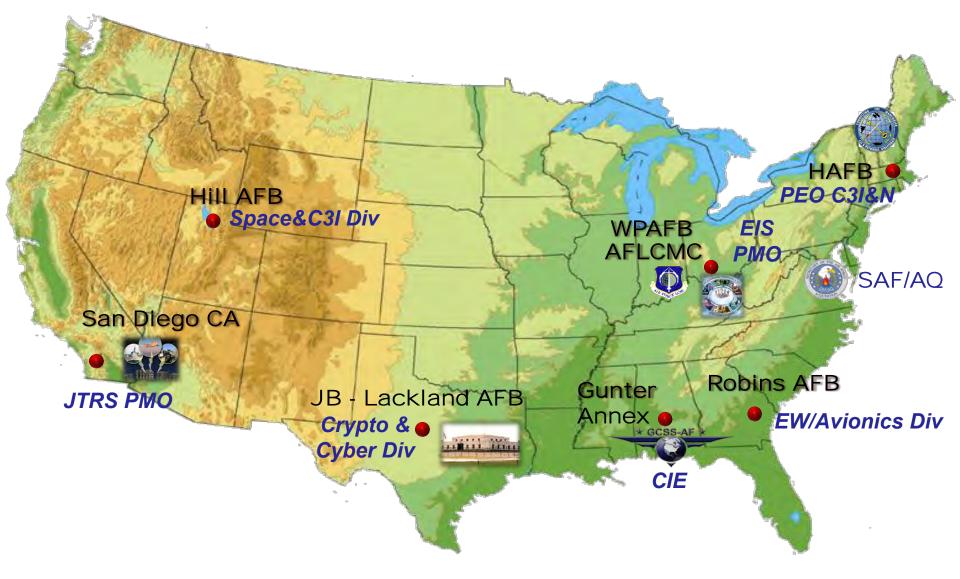
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Sp	bace, Aerial & Nucle C	AFLCMC/HNA ear Networks Div Col Todd Krueger			AFLCMC/HNC er Systems Div I Gary Salmans		AFLCMCHNI 3I Infrastructure Div col John Bedingfield	HNJ Special Programs Div Col Steve Brooks
HANS	сом	ROBINS		LACKLAND		HANSCOM	HILL	HANSCOM
 BACN (J) (S) CID Server (J) (S) ANGI (J) 5th/4th G/W (III) JTRS (TBD) CDL (AML Exempt) LINK 16 FMS CoT (AML Exempt) ADIS (S) TDNE/AFPTU (AML Exempt) TDNE/Coalition Interop (AML Exempt) TDNE/Data Link Test Facility (AML Exempt) F-15 Crypto (Navy Prgm) G-ASNT Inc 1 (II) G-ASNT Inc 2 (III) MMPU (III) MEECN MSI C)/B Inc 2 	 F-16 Crypto (Navy Prgm) B-1 Crypto (Navy Prgm) B-2 Crypto (Navy Prgm) JCTD-JETPACK (AML Exempt) JINTACCS (AML Exempt) TDNE/NATEX (AML Exempt) TDNE/NCCA (AML Exempt) TDNE/Other gateways (AML Exempt) 	AFLCMC/WNY EW & Avionics Div Col Earl Stoltz	 KG-3X (S) AVE Inc 1 (III) Mini Crypto (III) SMCC (III) AF KMI Last Mile (III) AG COMSEC (AML Exempt) AG COMSEC (S) Space COMSEC (AML Exempt) Space COMSEC (AML Exempt) Space COMSEC (S) ARC-234 (III) C3MS non-WSS (S) C3MS (TBD) C3MS Procurement (TBD) CDA (AML Exempt) CDA non-WSS (S) CVA/H (AML Exempt) CVA/H (MSS (S) CVA/H WSS (S) CVA/H WSS (S) CVA/H WSS (S) CVA/H WSS (S) 	 EKMS (S) EKMS-C (AML Exempt) I&FP (S) IA (AML Exempt) IFF (III) HNCY Cyber SA (AML Exempt) KL-90 MEED Mod (III) KMI Commodities (AML Exempt) KMI LS (S) KMI Transition (AML Exempt) NAS-WSS (S) NDEP (AML Exempt) OCO non-WSS (S) PKI (AML Exempt) PKI (AML Exempt) PKI LS (S) RCA (III) RRK (III) 	• TD Knowledge Mgt (AML Exempt) • TTS LS (S) • VACM (III) • CDAR (TBD) BOUNTY HUNTER (S)	 Base WIRED Infrastructure (IAC) TDC (AML Exempt) GCSS-AF (AML Exempt) GCSS Data Services (AML Exempt) AF EIS (S) ACD (TBD) AFINC (TBD) CSCS (TBD) CIE (AML Exempt) Voice (AML Exempt) AIRCOM (S) CCE (AML Exempt) Voice (AML Exempt) Voice (AML Exempt) Voice (AML Exempt) CCE (AML Exempt) EMNS (J) 	AFLCMC/HBZ Space and C3I Div Col Mike Holl • Cyber Voice (Black) (S) • Secure Voice (Red) (S) • Cyber Infra C2 Switch (S)	• SAP Center • Adv Tech • Kill Chain Int • EW HNS FAB-T Division onel Amanda Kato
(J) JUON/QRC							FAB-T Inc 1 (I) PNVC Integrat	

(S) Sustainment



PEO C3I&N Locations





C3I&N Partnerships and Collaboration



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Massachusetts State Government

"Military Asset and Security Strategy Task Force"

Industry Associations

- Armed Forces Communications and Electronic Association
- National Defense Industrial Association
- Smaller Business Association of New England
- Mass Innovation Bridge

Educational Institutions

- University Affiliated Research Center (UARC)
 - Georgia Tech Research Institute
- Education Partnership Agreements (EPAs)
 - UMASS Lowell/Network Security and Project Management
 - Northeastern University Graduate Student Research
- Massachusetts Open Cloud Partnership with BU in support of tactical Combat Cloud efforts

Construction of the



Hanscom Collaboration and Innovation Center (HCIC)

Tactical Data Networks (TDN LAB) Cyber Space Security and Control Systems (CSCS) Air Force Intranet Control (AFNIC) Theater Deployable Comm (TDC)

DoD Defense Innovation Unit Experimental (DIUX)

- Office in Cambridge MA
- Exploring C3I&N efforts for identification of emerging technologies
- Rapid acquisition contracting vehicles
- Collaborate with Subject Matter Experts on challenges/gaps with mutual interests

Others

- Cyber Proving Ground
- Cyber Solution Cell



Enabling rapid and agile capabilities to the warfighter



Accomplishments/Successes 2016



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Space, Aerial and Nuclear Networks Division (HNA)

- <u>Battlefield Airborne Communications Node (BACN)</u> Continues to fly from 4 FOBs; more than 119K flight hours and 9,700 missions across the fleet; sustained >80% mission capable rate 24/7 Orbit Coverage 12-month average 99.6%
- <u>AF JTRS (Joint Tactical Radio System)</u> \$7M equipment loan to high-vis platforms and vendors; saved the AF \$4M and 4 months of program slip put platform upgrade schedules back on track

C3I Infrastructure Division (HNI)

- Cyber Security and Control System (CSCS)
 - Automated Remediation and Asset Discovery (ARAD) IOC declared also won the and Annual DoD CIO Award
 - Contract Awards for: Worldwide Web Proxy replacement/modernization, IPN Pathfinder (Mar), USAFE Active Directory and Exchange (ADX) tech refresh, Scott AFB, Area Processing Center (APC tech refresh
- <u>Base Information Transport Infrastructure (BITI)</u>
 - Completed 4 Wired Turnkey Base installations. Program has completed 169 of 178 bases or 95%
 - Completed 3 Wired Modernization base installations
 - Completed 2 Wireless expansion projects at Kadena AB, Japan
- Collaboration Pathfinder (CP)
 - Authority to Operate (ATO) for the Microsoft Cloud service for email allowing email migration to the cloud
 - Total Email accounts migrated to cloud at 10,959 (Holloman, Malmstrom, and Goodfellow AFBs)
- <u>Air Force Intranet Control (AFINC)</u> First Cyber Weapon System to reach FOC 7 Jan 16
- <u>Air Force Cyberspace Defense (ACD)</u>
 - Host Base Security System Awarded Small Business Set-Aside system integrator contract Jun 16 (total value \$14.7M)



Accomplishments/Successes 2016



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Crypto and Cyber Systems Division (HNC)

- <u>Flexible Information Assurance Acquisition Tool (FIAT)</u>: Multiple Award IDIQ contract \$925M ceiling. Provides contract vehicle for early systems engineering, development, production, and product support for the crypto acquisition lifecycle
- <u>Vinson/Advanced Narrowband Digital Voice Terminal Cryptographic (VACM)</u>: Full Rate Production Decision Apr 16 45,000 devices over 8 years
- <u>Contract Awards</u>: ARC-234, Delivery Order 2 (\$4.3M) 201 crypto modules, Mini-Crypto (MC), Engineering and Manufacturing Development (EMD) (\$4.6M)
- Cyberspace Vulnerability Assessment/Hunter: Delivered weapon system to all six Nation Cyber Protection Team = IOC

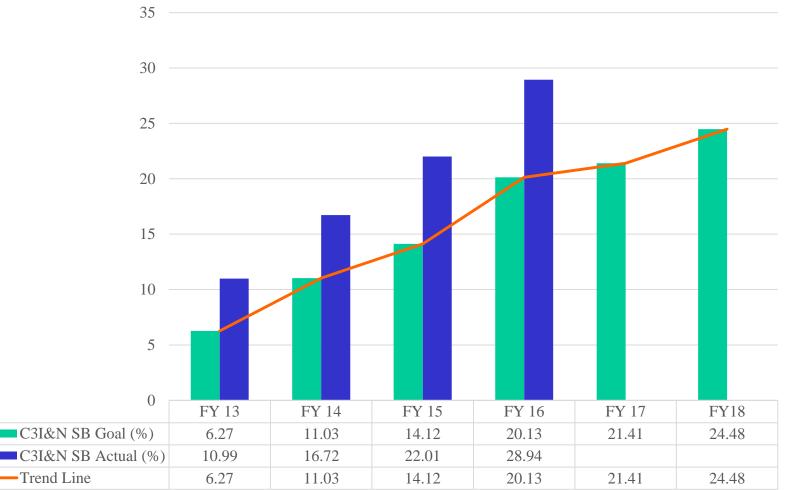
Special Projects Division (HNJ)

- Tactical Cloud Reference Implementation (TCRI) Flight Test Demonstration:
 - Successfully executed their 2nd experiment that demonstrated in a laboratory setting
 - Ability to function as a platform managing common data between multiple disparate nodes
 - Ability to host analytic capabilities riding on the TCRI architecture
- <u>Tactical Cloud Reference Implementation (TCRI) Scalability:</u>
 - Programmatic/technological feat! Downsized TCRI node (tablet sized vs multiple server racks)
 - Proved the ability to physically scale cloud computing nodes down for diverse tactical platforms
 - This capability (3rd experiment) will be flight demonstrated in the future
- Low Probability of Detect (LPD) Low Probability of Intercept (LPI), Anti-Jam (AJ) Network (LLAN) Node Static Test:
 - Successfully demo'd a concept for tactical datalink capability, including a multi-node static test
 - Successfully acquired Software Defined Radios for future communications experimentation
 - Full Motion Video Extension and Unified RelaY (FEURY):
 - Collects near-real-time, quality 24/7 full motion video for users in Mission/Tactical Ops Centers
 - FEURY delivers crucial combat capability to the tactical edge in our nation's fight against ISIS
 - FEURY team delivered this critical JUON in less than 65 days, for under \$9 million
 - The team deployed multiple times over 2 yrs for site surveys sustaining the system down-range



C3I and Networks Small Business AFLCMC... Providing the Warfighter's Edge





*Please note that FY 17/18 goals are DRAFT ONLY

FY 15 National Veteran Small Business Coalition Award



Priorities/Big Rocks



- HNI Terrestrial Domain
 - Common Computing Environment
 - Collaboration Pathfinder
 - Base IT Infrastructure (BITI)
- HNC Cyber/Crypto
 - Cyber Weapons Systems
 - Unified Platform Joint Cyber C2
 - Cyber Proving Ground
 - Cryptographic Modernization
- HNA Aerial Networks
 - Datalinks
 - Agile Communications

Common Computing Environment



	Warfighter Benefits
Spiral Evolution	 Provide secure/standardized platform for 2,700+ AF mission apps required to migrate to FDCCI compliant environments Cost avoidance of functional stove-pipe hosting solutions Provides standardization of IT infrastructure capabilities leading to efficient and agile delivery of IT capabilities Allows for ease of transportability of mission capabilities across cloud hosting platforms
Description	
The Common Computing Environment (CCE) provides standardized platforms and enterprise application support services. It also establishes engagement processes and tools for acquiring and operating cloud environments.	 <u>Requirements Basis</u>: Aligning to support FDCCI mandates for app migration and AF Policy <u>Major Customers</u>: SAF/CIO, HAF Functionals, AFSPC, mission application owners Contractor: Currently using combination of
System Capability	ETASS, PASS, and Lockheed-Martin leveraging existing contract vehicles while the CCE Acq
Initial CCE activities support the stand-up of platforms and enterprise application support services for the ITGEB approved pathfinder applications. Supporting migration to multiple cloud environments (DISA, Commercial Cloud, and IPN).	 External AF Interest: Aligning to the DoD Joint Information Environment requirements

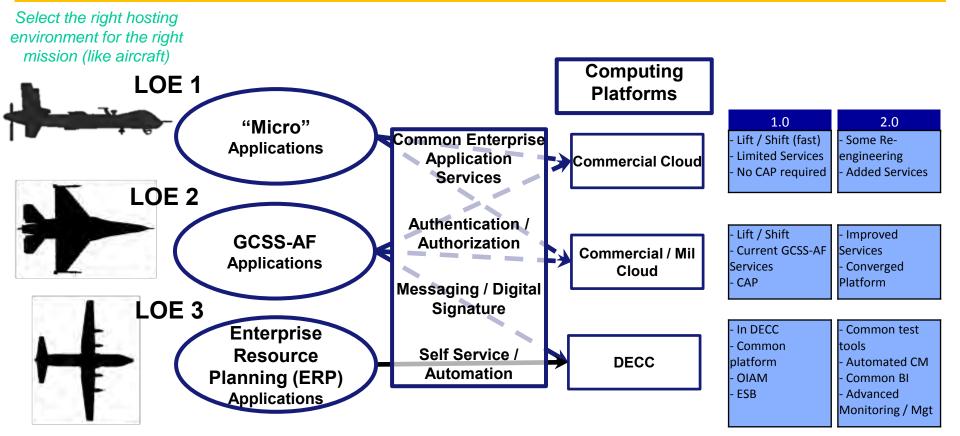


Framework to Future CCE Infrastructure



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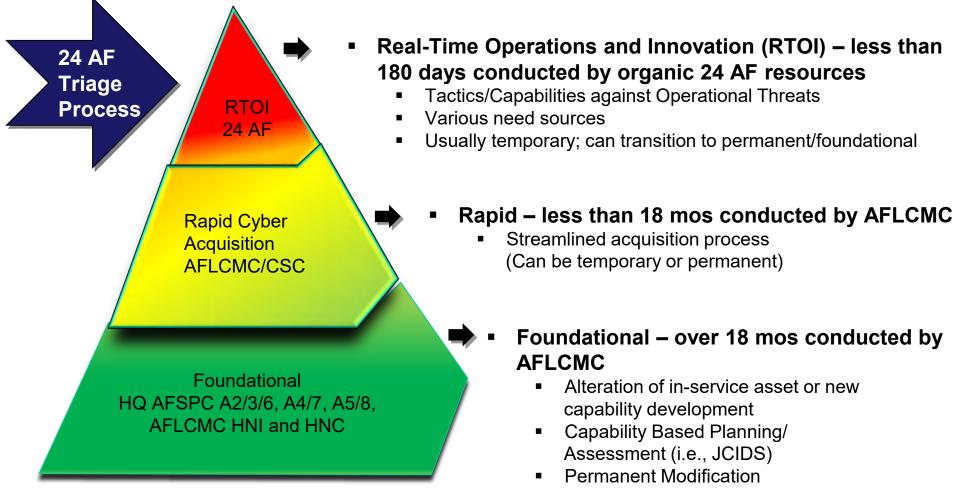
We Will Fail To Support Combat Operations Without Defendable, Reliable, Agile Hosting Environments – A4 CIO



Disciplined and collaborative process to select the right hosting Environment to support mission needs... do no harm

Cyber Capabilities Delivered at the Speed of Need







C3I Infrastructure Division

Colonel John Bedingfield Senior Materiel Leader

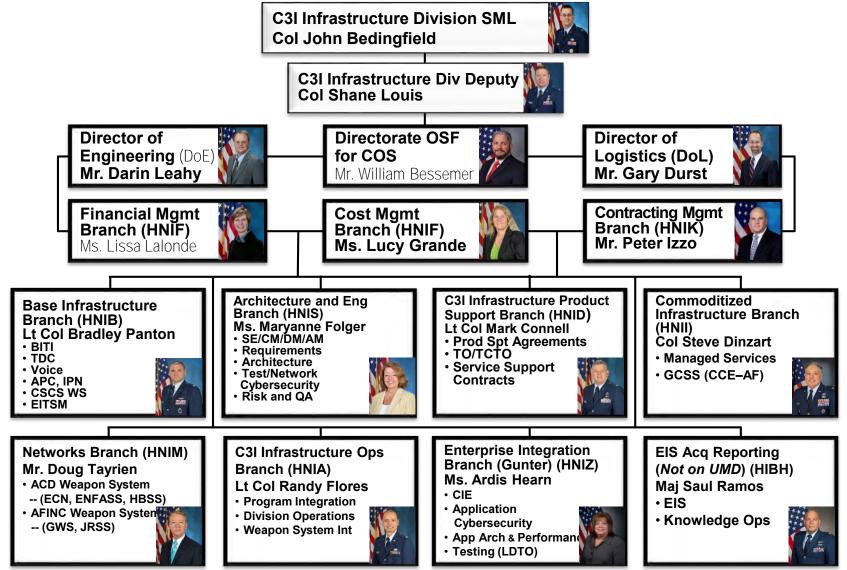
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HNI Org Chart









Base Information Transport Infrastructure (BITI) FY15/16 Bases



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think.	Warfighter Benefits
	 Provides a Security Technical Implementation Guide capable network
	 Enables base-level data, voice, video, imagery, sensor, and telemetry requirements
	 Ensure Air Force Networks are capable of conducting, supporting and advancing Coalition, Joint, AF and Interagency Operations
	 Provides life cycle management support
Description	Specifics
Description Delivers the Air Force wired and wireless cyber network infrastructure at each Air Force, Air Force Reserve, and Air National Guard base.	 <u>Major Customers</u>: AFNetOps, MAJCOMs, all fixed bases <u>Contractors</u>: Affigent LLC, Centech Group,
Delivers the Air Force wired and wireless cyber network infrastructure at each Air Force, Air Force	 <u>Major Customers</u>: AFNetOps, MAJCOMs, all fixed bases
Delivers the Air Force wired and wireless cyber network infrastructure at each Air Force, Air Force Reserve, and Air National Guard base.	 <u>Major Customers</u>: AFNetOps, MAJCOMs, all fixed bases <u>Contractors</u>: Affigent LLC, Centech Group, General Dynamics Information Technology,



Potential Industry Opportunity BITI Enterprise Contracts



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Scope: To provide an Information Transport Infrastructure

Anticipated Schedules:

- Network Management System: RFP 2QFY17, Award 3QFY17
- FY17 Base Recapitalizations: RFP 2QFY17, Award 4QFY17
- FY18 Base Recapitalizations: RFP 3QFY17, Award 1QFY18

Anticipated Vehicles: NETCENTS2 Products, NETCENTS2 NETOPS & Infrastructure Solutions

Anticipated Procurement Approach: Trade-Off, Firm Fixed Price

Customers: AFNetOps, MAJCOMs, all Fixed Bases

POC: Lt Col Bradley Panton, AFLCMC/HNIB, 781-225-2695, bradley.panton@us.af.mil Peter Izzo, PCO, AFLCMC/HNIK, 781-225-2660, peter.izzo.1@us.af.mil



Potential Industry Opportunity BITI Enterprise Contracts



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Description : To provide full management of the base network (switches, routers, software, etc.) by Service Contractor

Anticipated Schedules:

Infrastructure as a Service Pilot:

• RFP release for Hanscom 4QFY17, Award 1QFY18

Anticipated Vehicles: NETCENTS2, GSA Networx, or GSA Enterprise Infrastructure Solutions

Anticipated Procurement Approach: TBD

Customers: Hanscom AFB

POC: Lt Col Bradley Panton, AFLCMC/HNIB, 781-225-2695, <u>bradley.panton@us.af.mil</u> Peter Izzo, PCO, AFLCMC/HNIK, 781-225-2660, <u>peter.izzo.1@us.af.mil</u>



Reserve

960 NOS, 860 NOS

Cyber Security & Control System (CSCS) Weapon System Program



 Performs network operations and fault resolution activities designed to maintain operational networks Monitors AFIN operational network-based systems Provides AFIN operation of the DolN Provides AFIN operational networks operations and the tress of the base-level Network control Centers for cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure Conducts cyberspace situational awareness Units Active 83 NOS, 561 NOS, 690 NOS Guard 299 NOS Performs network operations and fault resolution activities of the aspectation and collaboration services, storage and controlled environments for hosting network-based systems support and collaboration services, storage and controlled environments for hosting network-based systems support and collaboration services, storage and controlled environments for hosting network-based systems support and collaboration services, storage and controlled environments for hosting network-based systems support and collaboration services, storage and controlled environments for hosting network-based systems support and collaboration services, storage and controlled environments for hosting network-based Provides AFIN ops and fault resolution activities to maintain cyberspace operational capabilities Conducts cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure Conducts cyberspace situational awareness Units Active 83 NOS, 561 NOS, 690 NOS Guard 299 NOS 		Program	Warfighter Benefits		
 Provides AFIN management and cyberspace defense to the warfighter for the Air Force-provisioned portion of the DoDIN Provides AFIN ops and fault resolution activities to maintain cyberspace operational capabilities Coordinates activities of the base-level Network Control Centers for cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure Conducts cyberspace situational awareness Units Active 83 NOS, 561 NOS, 690 NOS Provides AFIN management and cyberspace Requirements Basis: CPD, 10 Oct 2014 Major Customers: 24 AF, AFSPC Major Customers: 24 AF, AFSPC <u>Major Customers</u>: Sword & Shield, World Wide Technology, Three Wire Systems, Booz Allen Hamilton, EMC, Wyle 			 activities designed to maintain operational networks Monitors, assesses and responds to real-time network events, identifies and characterizes anomalous activities and takes appropriate response actions Provides AF enterprise services to include messaging support and collaboration services, storage and controlled environments for hosting network-based 		
 defense to the warfighter for the Air Force-provisioned portion of the DoDIN Provides AFIN ops and fault resolution activities to maintain cyberspace operational capabilities Coordinates activities of the base-level Network Control Centers for cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure Conducts cyberspace situational awareness Units Active 83 NOS, 561 NOS, 690 NOS Requirements Basis: CPD, 10 Oct 2014 Major Customers: 24 AF, AFSPC Major Customers: 24 AF, AFSPC Major Customers: 24 AF, AFSPC Major Customers: DoD ClO 		Description	Specifics		
 maintain cyberspace operational capabilities Coordinates activities of the base-level Network Control Centers for cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure Conducts cyberspace situational awareness Units Active 83 NOS, 561 NOS, 690 NOS Major Customers: 24 AF, AFSPC <u>Contractors</u>: Sword & Shield, World Wide Technology, Three Wire Systems, Booz Allen Hamilton, EMC, Wyle <u>External AF Interest</u>: DoD CIO 	defense to the warfighter for the Air Force-		<u>Requirements Basis</u> : CPD, 10 Oct 2014		
 Control Centers for cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure Conducts cyberspace situational awareness Units Active 83 NOS, 561 NOS, 690 NOS Contractors: Sword & Shield, World Wide Technology, Three Wire Systems, Booz Allen Hamilton, EMC, Wyle External AF Interest: DoD CIO 		•	Major Customers: 24 AF, AFSPC		
 protection devices and the AFIN infrastructure Conducts cyberspace situational awareness Units Active 83 NOS, 561 NOS, 690 NOS 		Coordinates activities of the base-level Network			
 Units Active 83 NOS, 561 NOS, 690 NOS 		Control Centers for cyberspace security actions			
 Active 83 NOS, 561 NOS, 690 NOS 		 Control Centers for cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure 	Three Wire Systems, Booz Allen Hamilton, EMC, Wyle		
		 Control Centers for cyberspace security actions Monitors AFIN services and manages boundary protection devices and the AFIN infrastructure Conducts cyberspace situational awareness 	Three Wire Systems, Booz Allen Hamilton, EMC, Wyle		



Potential Industry Opportunities CSCS Contracts



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Description : Consolidate, modernize and sustain CSCS data centers and other infrastructure while migrating to the Joint Information Environment (JIE)

Anticipated Schedules:

- Area Processing Center (APC) Consolidation: RFP 3QFY17, Award 4QFY17
- Active Directory & Exchange (ADX) Tech Refresh: RFP 3QFY17, Award 4QFY17
- Virtual Privacy Network (VPN) Upgrade: FRP 1QFY18, Award 2QFY18
- Installation Service Node (SIPRNet): RFP 3QFY17, Award 4QFY17

Anticipated Vehicles: NETCENTS2 Products, NETCENTS2 NETOPS & Infrastructure Solutions

Anticipated Procurement Approach: Firm Fixed Price

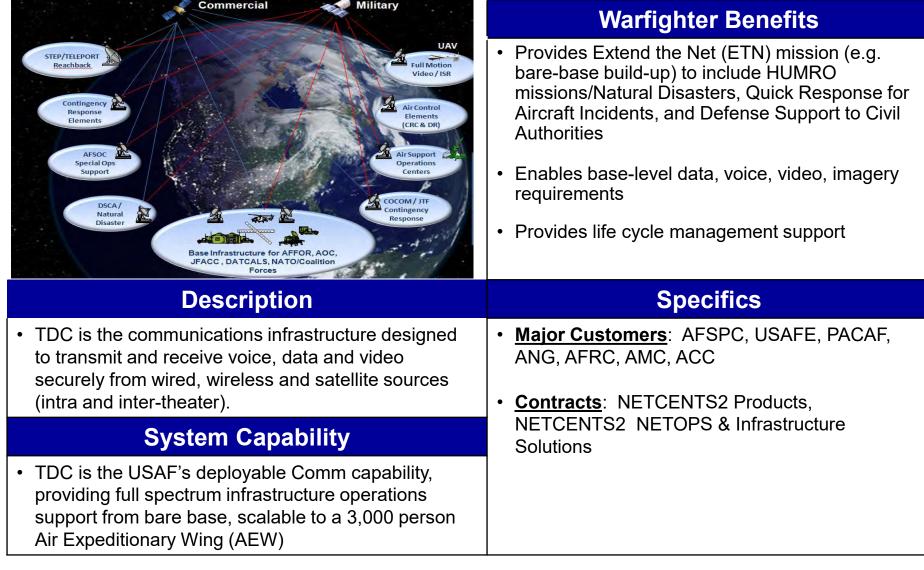
Customers: AFSPC, USAFE, PACAF, ANG, AFRC, AMC, ACC

POC: Lt Col Bradley Panton, AFLCMC/HNIB, 781-225-2695, bradley.panton@us.af.mil Sara Corsetti (PCO), AFLCMC/HNIK, 781-225-4081, sara.corsetti@us.af.mil



Theater Deployable Communications (TDC)







Potential Industry Opportunity TDC Contracts



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Description : To provide an Information Transport Infrastructure

Anticipated Schedules:

- TDC annual software support: RFP 1QFY17, Award 2QFY17
- Comm Fly Away Kit: RFP 3QFY17, Award 4QFY17
- NCC-D V4 UPS EOL Replacement: RFP 3QFY17, Award 4QFY17
- Configuration Laptop EOL replacement: RFP 3QFY17, Award 4QFY17

Anticipated Vehicles: NETCENTS2 Products, NETCENTS2 NETOPS & Infrastructure Solutions

Anticipated Procurement Approach: Firm Fixed Price

Customers: AFSPC, USAFE, PACAF, ANG, AFRC, AMC, ACC

POC: Lt Col Bradley Panton, AFLCMC/HNIB, 781-225-2695, bradley.panton@us.af.mil Sara Corsetti (PCO), AFLCMC/HNIK, 781-225-4081, sara.corsetti@us.af.mil



Common Computing Environment Program Overview AFLCMC... Providing the Warfighter's Edge



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Program	Warfighter Benefits
	 Provide secure/standardized platform for 2,700+ AF mission apps required to migrate to FDCCI compliant environments Cost avoidance of functional stove-pipe hosting solutions Allows for ease of transportability of mission capabilities across cloud hosting platforms Enhances efficiencies, cyber security and application performance through infrastructure commoditization supporting core mission area Defense Business Systems
Description	Specifics
Common Computing Environment (CCE) is the AF evolution to standardized platforms and application support services providing secure cloud environments & cyber security solutions ensuring compliance with Joint Information Environment (JIE) roadmap. Develops and integrates critical application support services such as Application Performance Monitoring, Remote Desktop access, Identity Management and Messaging and Mediation.	<u>Requirements Basis</u> : AF Policy (AFI17-100, AFGM2015 33-03) and support of FDCCI mandated application
System Capability	 <u>Contractor</u>: Currently using combination of ETASS,
Establishes initial processes and procedures to support provisioning of IB defined platforms and enterprise application support services across multiple cloud environments. These platforms and services support applications prioritized thru AF rationalization process.	 PASS, FFRDC and leveraging existing System Integrator contract vehicles while the CCE Acq Strategy is being developed External AF Interest: Aligning to the DoD Joint Information Environment requirements



Potential Industry Opportunity Common Computing Environment



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Description:

Seeking Industry expertise to deliver all aspects of a Common Computing Environment. Utilize Industry strengths to assist us in building the right team across all aspects of our journey to the cloud. Cloud service providers (public and private), application transformation and migration experts, cloud operators and optimizers, technology and tool developers, and end to end capability providers

<u>Schedule</u>:

- Completed Industry Day 7-8 Dec 2015
- Current incumbent is Leidos, contract valid thru FY16 with options for FY17/18; possible re-compete activities in FY17 or FY18

Anticipated Contract:

- Developing acquisition strategy for all aspects of CCE efforts
- Investigating flexible contracts to leverage small businesses and cloud experts for application migration

Anticipated procurement approach:

• Anticipate use of multiple procurement approaches

Customer:

SAF CIO A6, SAF/MG, HAF Functionals, AFSPC, and mission application owners

POC: Col Steve Dinzart, AFLCMC/HNII, 781-225-5927; <u>Steve.Dinzart@us.af.mil</u> Mr Alan Tacito, PCO, AFLCMC/HNIK, 781-225-4093, <u>Alan.Tacito@us.af.mil</u>



Integrated Management Suite Program Overview



Program	Warfighter Benefits	
	 Unifies the management and defense of AF network devices Consists of ~90 servers supporting the management of 16 Air Force Gateways and 182 Base Boundaries Operating/maintaining/defending the NIPR & SIPR Gateways Operating/maintaining/defending NIPR/SIPR Wide Area Network (WAN) links Provides connectivity and cyberspace defense through the operation of Service Delivery Points Provides centralized Domain Name Services for AF domains 	
Description	Specifics	
 The Integrated Management Suite (IMS) is a dedicated out-of-band management (OOBM) network for the Air Force Network residing at Gunter AFB and Lackland AFB that provides for real-time centralized management of network 	 <u>Requirements Basis</u>: STIG ID: NET1622 Rule ID:SV- 15442r1_rule Vuln ID: V-14716. This STIG states that the network administrator will manage devices through OOBM. 	
devices.	 <u>Major Customers</u>: AFSPC, 24AF, 26 Network Operations Squadron and mission application owners 	
System Capability	 <u>Contractor</u>: Currently using combination of ETASS, 	
 Provides boundary protection for 178 Active Duty, Reserve and Air National Guard locations through 16 Air Force NIPRNet Gateways and 14 	PASS, FFRDC and organic sources while the IMS Acq Strategy is being developed	
SIPRNet Gateways	External AF Interest: Aligning to the DoD Joint Information Environment requirements	



Potential Industry Opportunity Integrated Management Suite



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Description:

Seeking Industry expertise to deliver all aspects of an Integrated Management Suite. Permanent modification to modernize and extend the IMS Out of Band Management Network to include additional assets at the base boundary providing greater visibility for Network Operations as well as Network Defense. Utilize Industry strengths to assist us in building the right team across all aspects of our journey to the Joint Regional Security Stacks run by the Defense Intelligence Security Agency. Through extension of the IMS OOBM Network, the AF will provide secure network management of all network devices and infrastructure to enable the Air Force transition to the Joint Information Environment.

Schedule:

• Anticipate RFP 3QFY17, Award 4QFY17

Anticipated Contract:

- Developing acquisition strategy for all aspects of IMS efforts
- Investigating flexible contracts to leverage Network as a Service businesses and Prime Partner relationships for application migration

Anticipated procurement approach:

• Anticipate use of multiple procurement approaches

Customer:

Air Force Space Command, 24th Air Force, 26 Network Operations Squadron and mission application owners

POC: Paul Zauner, AFLCMC/HNIM, 781-225-9667, Paul.Zauner@us.af.mil

Mr Alan Tacito, PCO, AFLCMC/HNIK, 781-225-4093, Alan.Tacito@us.af.mil



AF Cyberspace Defense Program



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Recent Successes Program Completed ENFAAS Deployments at 82 AD & Res Bases Coordinating ENFAAS Employment Activities HBSS System Integrator Contract, critical for next 3 years of HBSS Ops Support, Awarded in June 2016 HBSS Win 10 TCTOs Complete IOP vCenter installed at Lackland/Gunter **PMO liens for FOC met – awaiting formal declaration** Working Baseline documentation for RMF C&A Q1 CY17 Description **Specifics** Requirements Basis: ACD WS CPD **Employs Defensive Counter Cyberspace** Operations to achieve cyberspace superiority for JROC approved May 2015 assigned missions. Provides 24/7/365 monitoring Major Customers: HQ AFSPC, 24 AF, 624 OC, several and defense of US Air Force and US Central mission CSSP partners (e.g.: AOC, F-22, TRANSCOM) Command SIPR/NIPR computer networks against Contractors: GDIT (ENFAAS) hostile attack. Dependable Global Solutions Inc (DCO M&E) **System Capability** Agile Defense (Baseline Effort) IndraSoft (HBSS) ACD coordinates and executes resources needed to provide intrusion detection, network traffic External AF Interest: USCYBERCOM, National Security analysis, network forensics analysis, Agency/Central Security Service Threat Operations Center countermeasure development and execution, and (NTOC) incident response across the AFNet.



Potential Industry Opportunity AF Cyberspace Defense (ACD) AFLCMC... Providing the Warfighter's Edge



AFLCMC... Providing

Description:

• Seeking non-traditional DoD expertise to demonstrate and develop an Integrated Cyber Aggregation Tool (iCAT) for the 33NWS in its mission of identifying and blocking cyber threats to the AFNet. 33 NWS Operators are faced with the frustration of lost productivity when moving between different Cyberspace management appliances/tools. Each requires a unique User Id and password for authentication, authorization, and accounting (AAA). The desired result of this request is a federated data capability that allows operators to quickly and easily review and copy data from multiple cyber tools/applications which should be PKI-enabled. This should allow for a much faster cyber event evaluation process leading to an enhanced integrated cyber threat data environment.

Schedule:

- Industry Day TBD; but likely March 2017
- Rapid Cyber Acquisition where prospective offerors will demonstrate their ability to offer a solution in a Mil Cloud environment. Winner will be selected and awarded a contract to bring their proposed solution to a TRL Level 8 and deliver a usable capability to the 33NWS.

Anticipated Contract:

- OTA (Other Transaction Authority)
- Seeking non-traditional DoD vendors
- Follow-on sustainment effort will be required and potential exists for export/tailoring to other AF Cyber WS's

Customer:

33NWS, AFSPC, and mission application owners

POC: Brittany Ridings, GS-13, AFLCMC/XZC 781-225-3443, Brittany.Ridings@us.af.mil

Stephen C. Ober, NH-04, ACD PM; 781-225-4036, Stepen.Ober@us.af.mil



HNI S&T Requirements



- Cloud Security: The capability to provide commercial cloud security infrastructure and services that are compatible with current AFNET offerings.
- Automation of Baseline Discrepancy Incident Reporting: The capability to automate the analysis, reporting, and resolution of AF NIPRNet Product Baseline discrepancies.
- Endpoint Protection for Zero Day Prevention : The capability to provide endpoint/host protection based on automated, signature-less (i.e. artificial intelligence based), malware detection algorithms that run locally on the host.
- SCADA Management: The capability to provide secure C3/management of Supervisory Control and Data Acquisition (SCADA) systems from within the AFNet.
- Adversary Attack Vectors: The capability to analyze hardware types and configurations; firewalls and firewall rules; known vulnerabilities; and probable targets to determine the most likely avenues of attack by adversaries.
- Big Data Analytics: The capability to analyze vast network data to identify and counter adversary actions

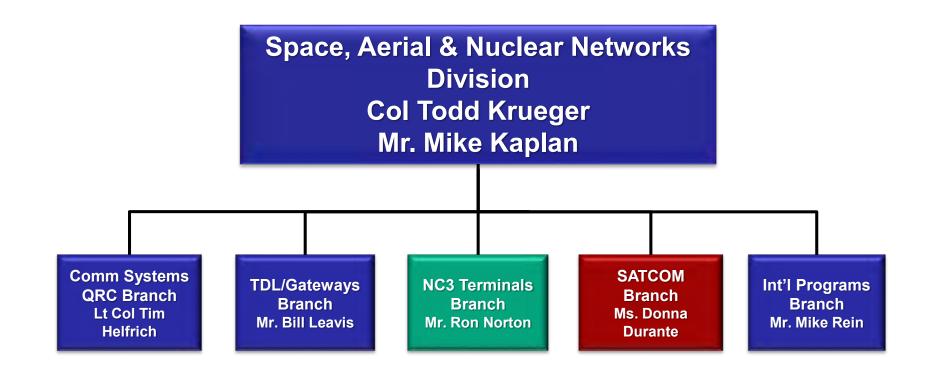
Space, Aerial, and Nuclear Division HNA



Col Todd Krueger Senior Materiel Leader

Providing the Warfighter's Edge









AFLCMC... Providing the Warfighter's Edge

Mission Statement

Expertly acquire and support world-class, innovative overthe-air communication solutions for Air Force, joint and coalition warfighters

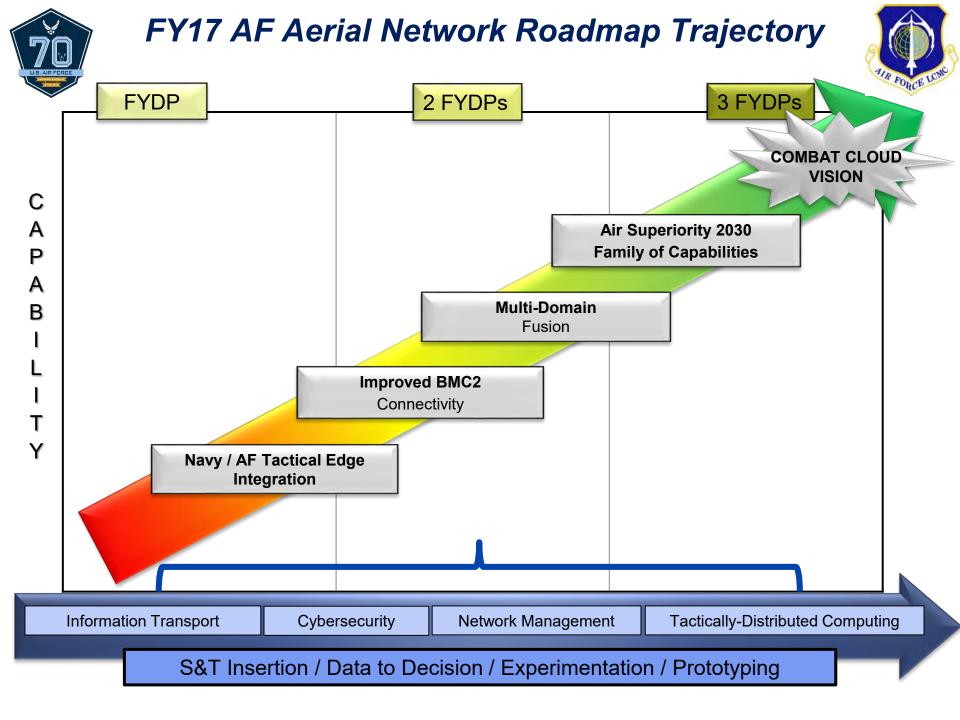
<u>Vision</u>

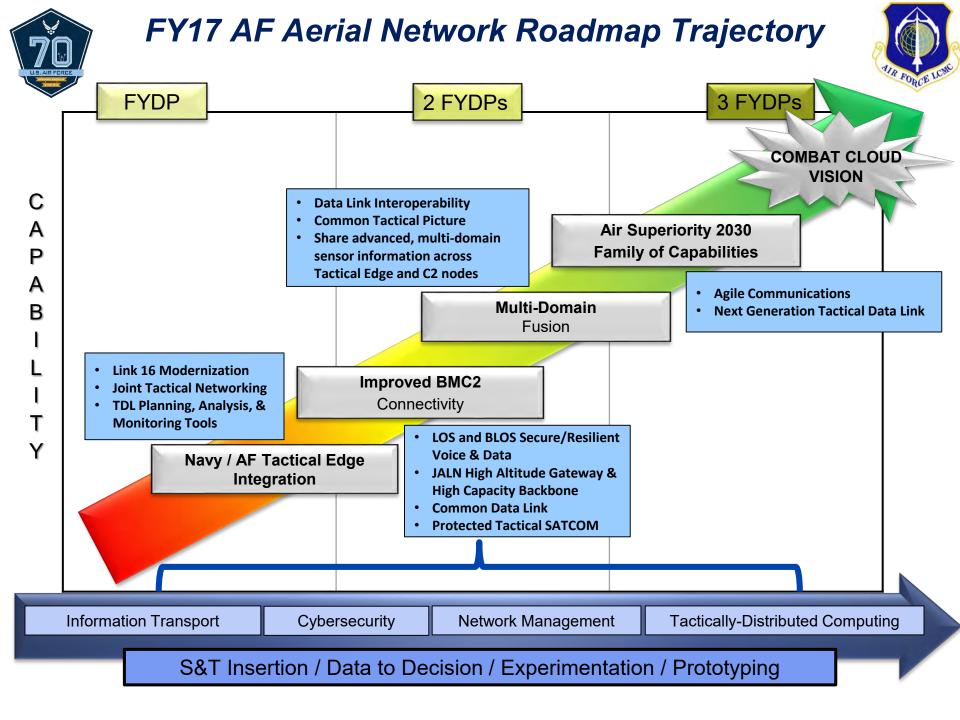
We will:

- Revolutionize the management of our networks as weapon systems

- Be the recognized leader for acquiring and sustaining interoperable communication solutions

- Establish, maintain and enforce the standards for Aerial and SATCOM networks







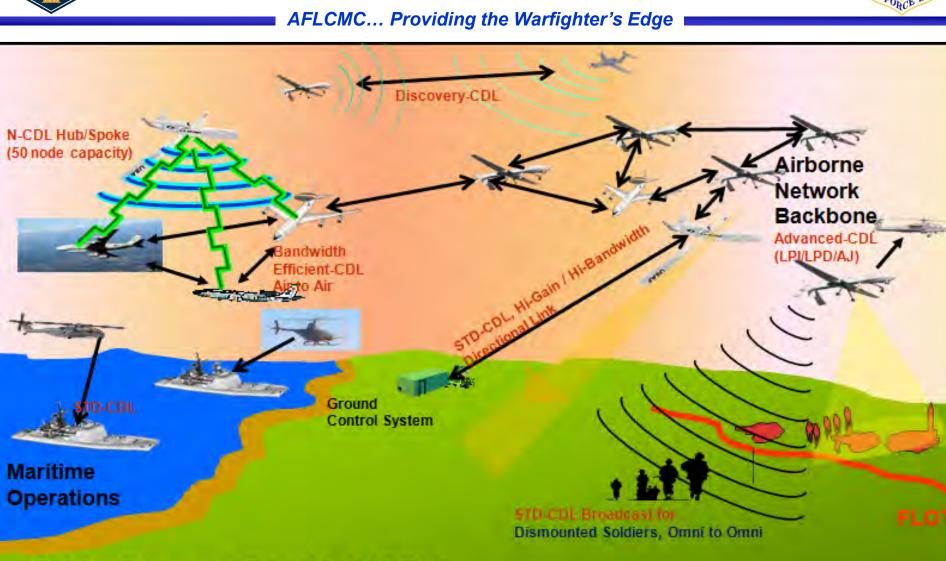
Common Data Link (CDL) Non-ACAT AFLCMC... Providing the Warfighter's Edge



Discovery-CDL	Warfighter Benefits		
N-CDL Hub/Spoke (50 node capacity) Airborne Network Backbone Advanced-CDL	Critical component of the nation's ISR infrastructure, delivering data at multiple classification levels to the right place at the right time		
Efficient.CDL Airto Air TO COL HIGHI HILBORIA TO COL HIGHI HILBORIA	 Brings ISR data to the tactical edge (e.g. SIGINT, GEOINT, MASINT, and Full-Motion Video (FMV)) 		
COLO Ground Control System	 Ability to quickly transmit enormous amounts of information securely & on multiple frequency bands 		
Maritime	Data agnostic		
Operations Sth-Coll-Broadcast for Dismounted Soldiers, Omni to Omni	 Standardized - encourages interoperability 		
OV-1 – Common Data Link (CDL)			
Description	Specifics		
DoD standard ISR data link, mandated for ISR platforms by Public Law 112-239; ASD(NII) CDL policy dated 7 Aug 09; JALN high capacity backbone per JROCM 003-13 (JALN AoA)	 <u>Requirements Basis</u>: Congressionally Mandated Effort (since 2006); ASD(NII) policy, CDL mandate update (7 Aug 09), DoDI S-4660.04, Encryption of Imagery Transmitted by 		
System Capability	Airborne Systems and Unmanned Aircraft Control Communications (27 Jul 11); A NATO interoperability standard (STANAG 7085)		
High capacity, encrypted, interoperable data links for ground/aerial ISR platforms	<u>Executive Agent</u> : SAF/AQI		
Waveform specifications supporting Internet Protocol (IP)	<u>CDL PMO</u> : AFLCMC/HNAG		
enabled data transport via point-to-point and point-to-multi-point	<u>Contractor</u> : TBD		
links	• <u>External AF Interest</u> : OUSD(AT&L), OUSD(I), Joint Staff, DoD		
"Communications-on-the-move" and dynamically forming MANET-type <u>air and ground</u> CDL networks	CIO, All Services, NATO, COCOMs		



Common Data Link (CDL)



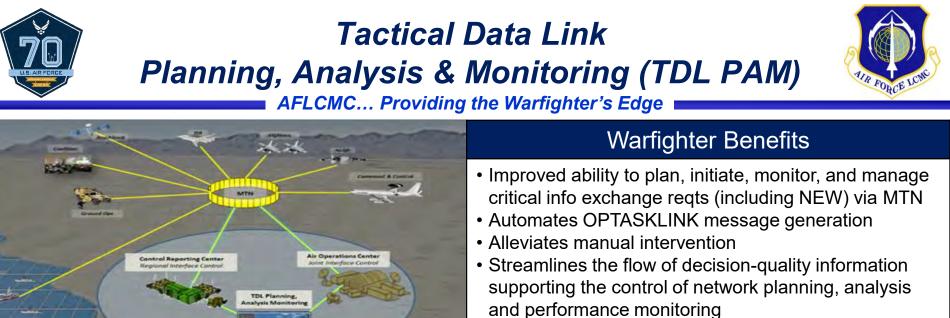
OV-1 – Common Data Link (CDL)



Potential Industry Opportunity Data Link Enterprise (DLE) IDIQ



- <u>**Description**</u>: Develop H/W and S/W engineering development models and prototypes, systems engineering products, technical reports, data rights, and PM and financial milestone event and reporting to support CDL, TDL, and other HNA projects
- Anticipated Schedule:
 - Issue Final RFP: March 2017
 - Receive Proposals: May 2017
 - Contract Award: April 2018
- Anticipated Contract: Multiple Award
- Estimated Value: \$496M Contract Ceiling
- <u>Customer</u>: Army, Navy, Marines, AF, Principle Staff Assistant, JITC, Joint Spectrum Center
- <u>POC</u>:
 - Ms. Cali Rodriguez, AFLCMC/HNAG, (781) 225-4034
 - PCO, Ms. Edna Alonis, AFLCMC/HNAK, (781) 225-4070



• Enables affordable capability evolution

Specifics

• **<u>Requirements Basis</u>**: Draft CRC & AOC Rqts Docs

Adhere to Modular Open Systems Approach principles: (Employ Modular Design, Designate Key Interfaces, Use Open Standards & Certify Conformance).

- Lead & Using Commands: ACC/A5Y (Lead);
 ACC/A3C (Using)
- <u>Milestone Decision Authority</u>: PEO, C3I&N anticipated
- <u>Contractor</u>: TBD
- Quantities: 14 Control and Reporting Centers
- Potential External AF Interest: JICO Community

Description

An initiative to develop & sustain a modern softwarebased, stand-alone toolset for Regional and Joint Interface Control Officers (RICO/JICO) to efficiently and effectively plan, analyze & monitor Multi-TDL Network (MTN) architectures *and* support emerging capabilities within the Theater Air Control System.

Potential System Capability

- Facilitate L-16 TDL planning need to create, import, & export OPTASK LINK in machine readable, parsable format to include Network-Enabled Weapon (NEW) & Combat Net Radio (CNR) planning capabilities
- Monitor system performance and modify existing MNT



Potential Industry Opportunity TDL PAM Project

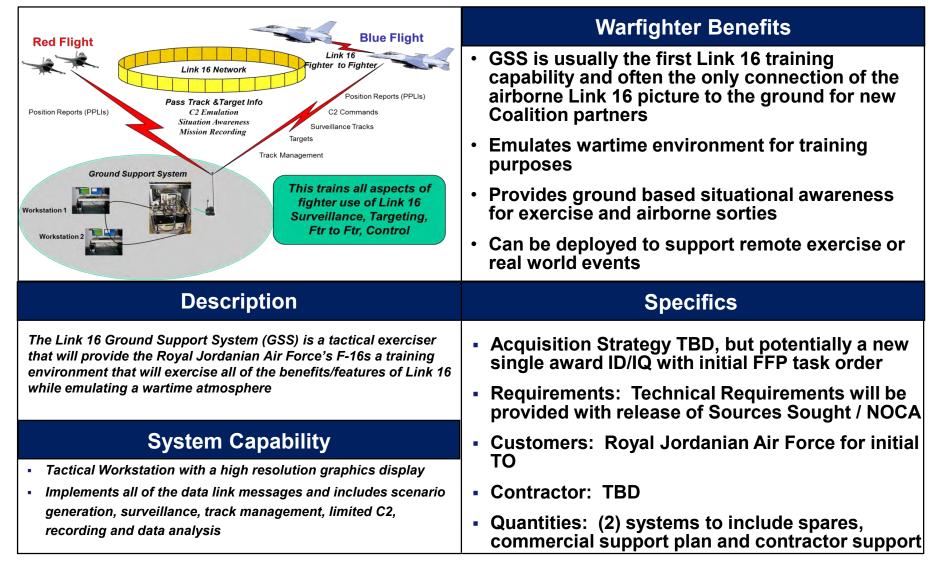


- <u>Description</u>: Develop an Open Systems Architecture software based, stand-alone system to run on COTS hardware for use in ground-based Control Reporting Centers (CRC) and Air Operations Centers (AOC) to enable Regional and Joint Interface Control Officers (RICOs/JICOs) to effectively and efficiently plan, analyze and monitor the Mulit-TDL Network (MTN) and support emerging capability requirements within the AF Theater Air Control System (TACS).
- <u>Current Phase</u>: Pre-Acquisition/Pre-Materiel Development Decision
- Project Status: Requirements Definition
- Notional Schedule:
 - Request For Information: 4th Qtr FY16
 - Market Research & Early Gov't System Engineering: FY17
 - ICD/CDD Approval: ~4th Qtr FY17
 - Materiel Development Decision: ~1st Qtr FY18
 - Development Request For Proposal Release Decision: ~FY18
 - Contract Award: ~FY19 [MSA or TMRR acquisition phase]
 - Fielded by end of FY23
- Customer: CRC RICOs & AOC JICOs
- <u>POC</u>:
 - Ms. Raquel Durst, AFLCMC/HNAG, (781) 225-5167
 - PCO: Ms. Indy Toliver, AFLCMC/HNAK, (781) 225-4189



Ground Support System ID/IQ w/ Jordan Initial Delivery Order







Potential Industry Opportunity

ID/IQ for FMS Ground Support Systems (GSS) Initial Delivery Order: Royal Jordanian Air Force GSS AFLCMC... Providing the Warfighter's Edge



- <u>Description</u>: 5-yr single award ID/IQ to provide Link 16 Ground Support Systems (GSS); to include spares, commercial support plans and contractor support to US FMS partners
- Anticipated Schedule:
 - Sources Sought: February-March 2017
 - RFP: May-June 2017
 - Contract Award: September-October 2017
 - Installation & Site Acceptance Test (I&SAT): March-April 2018
- Anticipated Procurement Approach: TBD, but anticipating Best Value
- <u>Estimated Value</u>: ~\$25M ceiling
- Initial Delivery Order: Procurement of 2 GSS, spares, commercial support plans & contractor support for Royal Jordanian Air Force
- <u>POC</u>:
 - PCO, Ms. Edna Alonis, AFLCMC/HNAK, (781) 225-4070
 - Buyer, Mr. Joseph Cooper, AFLCMC/HNAK, (781) 225-5546



Crypto and Cyber System Division HNC

Col Gary Salmans Senior Materiel Leader

Providing the Warfighter's Edge



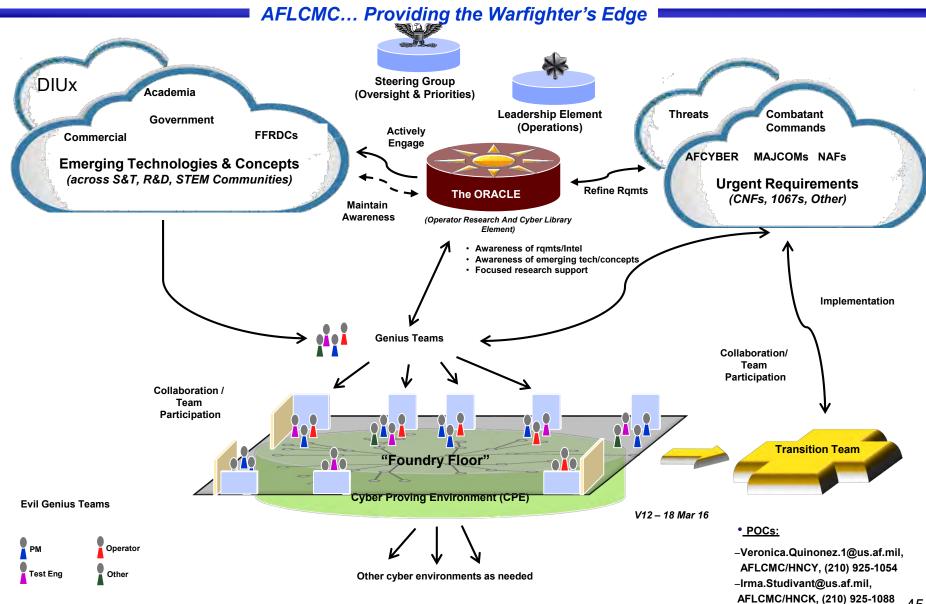
HNC Mission Areas





Foulois Cyber Proving Ground OV-1

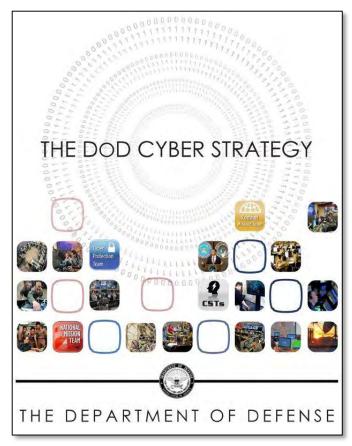






SECDEF Direction

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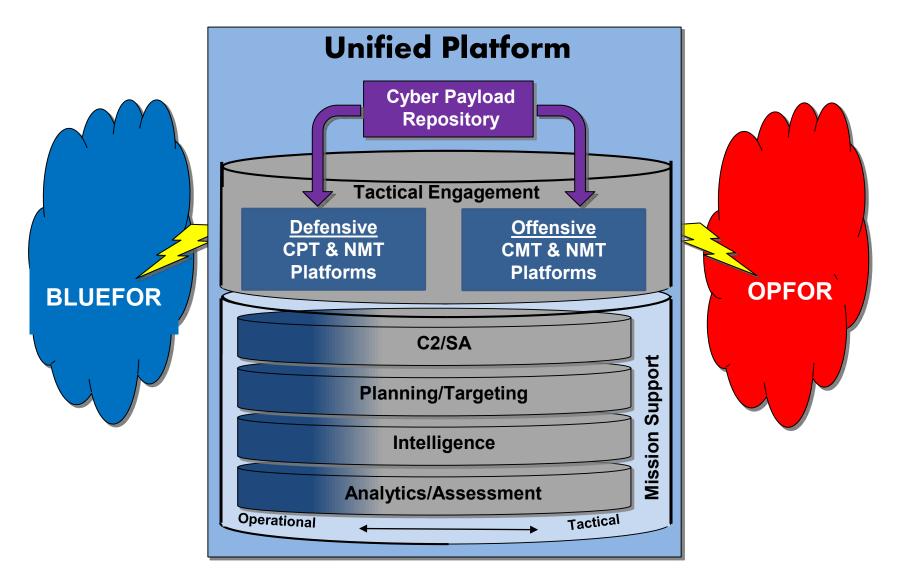
The Department of Defense Cyber Strategy, April 2015

"Develop the Unified Platform.

... DoD will develop the detailed requirements for integrating disparate cyber platforms and building an interoperable and extendable network of cyber capabilities. This Unified Platform will enable the CMF to conduct full-spectrum cyberspace operations in support of national requirements."



Operational Concept





Potential Industry Opportunity



AFLCMC... Providing the Warfighter's Edge

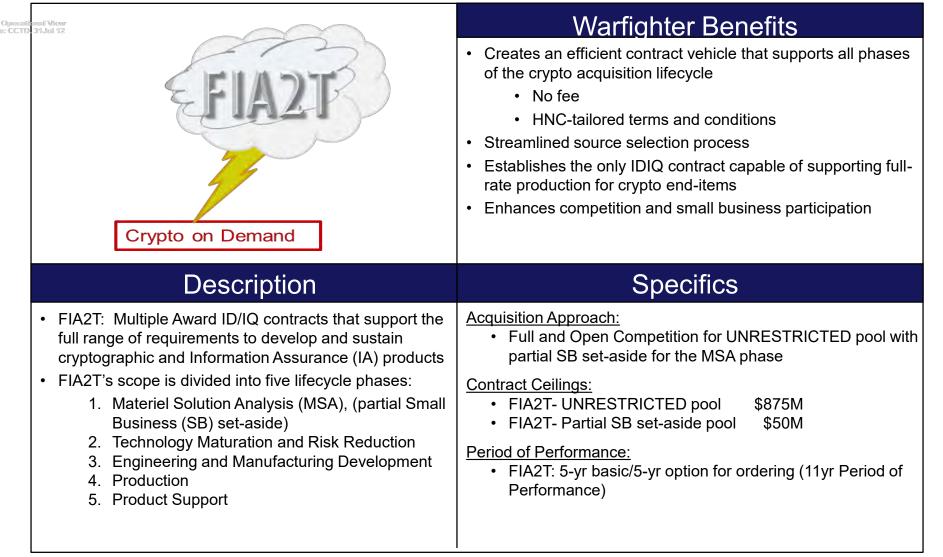
- <u>Description</u>:
 - Tech maturation and risk reduction multiple prototyping efforts
 - UP development
- Anticipated Schedule:
 - Prototyping efforts: FY17/18/19
 - Development: Late FY19 and beyond
- Anticipated Contract: TBD
- <u>Anticipated Procurement Approach</u>: TBD
- <u>Customer</u>: USCYBERCOM, Military Services, DoD Agencies
- <u>POC</u>:
 - PM: Ms Diane Tschoepe-Lichte, AFLCMC/HNC, (210) 925-4055
 - PCO: Mr Patrick Jackson, AFLCMC/HNCK, (210) 925-3198

Programmatic and Acquisition Planning in Early Stages



Flexible Information Assurance Acquisition Tool (FIA2T) Indefinite Delivery/Indefinite Quantity (ID/IQ)







Flexible Information Assurance Acquisition Tool (FIA2T) Indefinite Delivery/Indefinite Quantity (ID/IQ) Contract



- Scope:
 - FIA2T focuses on the full range of AFLCMC/HNC crypto requirements
 - Develop and support cryptographic and IA products
 - FIA2T's flexible Delivery/Task Order process reduces time to meet customer requirements
 - Improves operations efficiency and reduces reliance on external contracts
 - Delivery/Task Orders available: FFP, FPIF, CPFF, CPIF, CR
- Anticipated Award Date: 2QFY17
- Anticipated Contracts:
 - 10-15 small and large businesses
 - Contracts have on-ramp procedures to add additional contractors in FY19
- Anticipated Procurement Approach: IDIQ contracts: FAR Part 15 / Orders: FAR Part 16
- **<u>Customers</u>**: AFLCMC/HNC & other AF units with crypto needs



CPG Assessment for

Cyber Vulnerability Assessment /Hunter WS



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Warfighter Cyber Need

- CTE Squadron mission to accurately replicate cyberspace threats [post exploitation].
- Replicate threats and customize different aspects of its footprint.
- Provide ability to automate Operator actions and maintain situational awareness

Description	Specifics
 CVA/HUNTER WS provides vulnerability 	<u>CPG Board:</u>
assessment and the Hunter mission capabilities.	 Approved assessment of 3 products for post exploitation on CPG Foundry Floor
	Step 1: CPG planned activities:
 The Hunter mission provides the 24th AF 	 Set up in CPE/346TS environment
commanders with a deployable, precision capability to identify, pursue within network	 Replicate adversarial threats using assessment criteria and create a report
boundaries, and mitigate cyberspace threats in support of theater operations.	Step 2: CSC planned activity:
	 Execution COA following CPG project



CPG Assessment for Cyber Vulnerability Assessment /Hunter WS



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Scope:

- Perform capability assessment on three candidate products
 - KeyW
 - Immunity
 - Root9B
- Potential small business award to Immunity Products LLC's
 - Immunity Products LLC develops mature and modular post exploitation framework called INNUENDO.
 - RFI contract FA8307-16-RFI06, Post Exploitation Framework for Responsive Cyber Division/Cyber Solution Cell.
- **Potential Award Date**: 2QFY17
- Anticipated Contracts: 1 small to large businesses
- Anticipated Procurement Approach: Sole-Source or RFQ
- Customers: AFLCMC/HNCYD
- <u>POCs:</u>
 - <u>Veronica.Quinonez.1@us.af.mil</u>, AFLCMC/HNCY, (210) 925-1054
 - Irma.Studivant@us.af.mil, AFLCMC/HNCK, (210) 925-1088







Overview to New Horizons

Col Steve Brooks Chief, Special Programs Division Mar 17

Providing the Warfighter's Edge



53







AFLCMC... Providing the Warfighter's Edge

<u>Mission</u>

"Champions this Nation's most sensitive Command, Control, Communications & Networks (C3I&N) and Battle Management (BM) technologies, capabilities, information, and operations for the warfighter"

<u>Vision</u>

"Where classified innovation becomes reality"

- Make the vision of the "Combat Cloud" a reality
- Provide state-of-the-art Information Technology to the DoD SAP* community
- Be the Air Force's experts in Electronic Warfare

* SAP - Special Access Program



HNJ Mission Areas



AFLCMC... Providing the Warfighter's Edge

Advanced Technology Branch (HNJT)

Enable collaboration across the SAP* community

- Secure networks and VTC capabilities
- Cloud services/databases (i.e., CORE)

Electronic Warfare Systems Branch (HNJW)



Design, test and field electronic warfare systems

Kill Chain Integration Branch (HNJJ)



Find, mature & transition multi-domain Decision Superiority capabilities

C3I&N Architecture Team (HNJ)



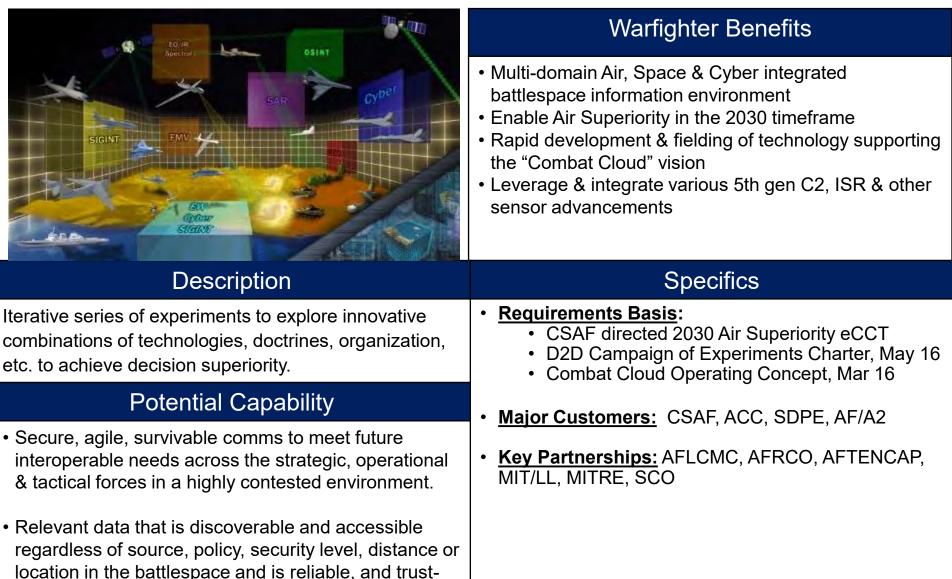
Working with other USAF organizations, realize the "Combat Cloud" vision



worthy to warfighter and agencies at all levels.

Data to Decisions (D2D) Campaign of Experiments

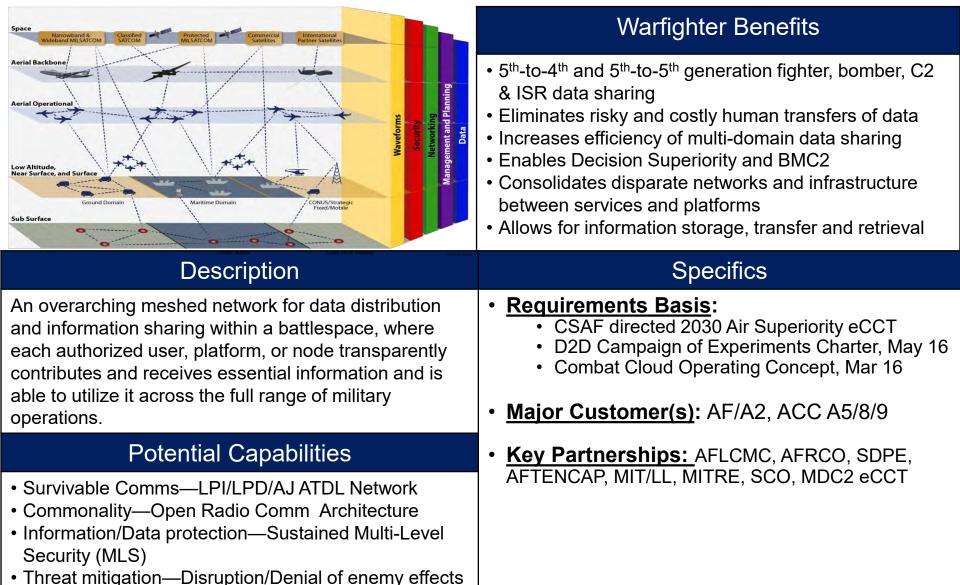






Combat Cloud Architecture







Tactical Cloud Reference Implementation (TCRI)



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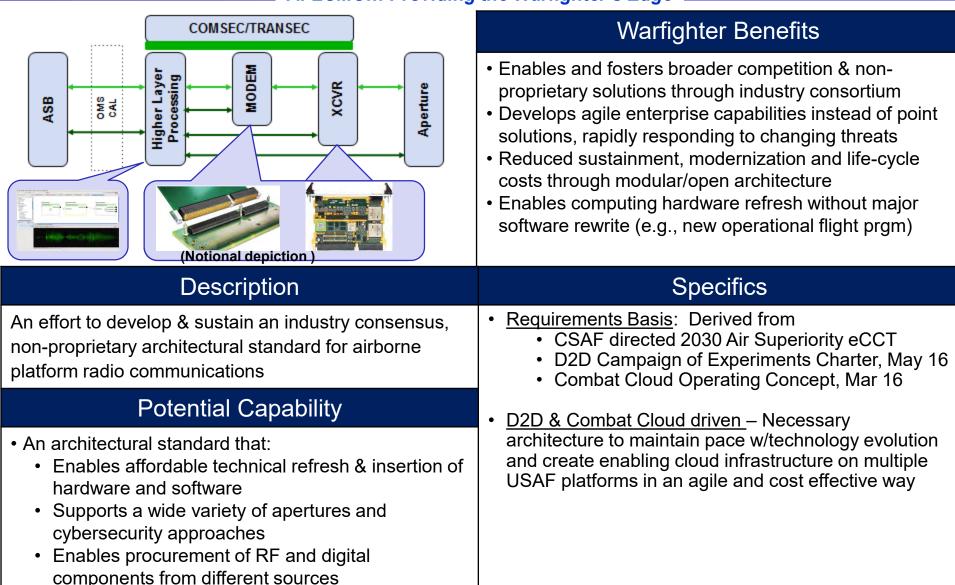
	Warfighter Benefits
AIR TCRI FILING	 Decreased processing, exploitation, and dissemination (PED) timelines for tactical data Automated machine-to-machine data analysis Quicker decision making via operator on the loop vs. operator in the loop Heightened situational awareness via automated data fusion/correlation Quicker kill chain closure
Description	Specifics
Combat Cloud enabling technology. Tactical data architecture that provides common framework for automated analysis and data fusion at the tactical edge	 <u>Requirements Basis</u>: Derived from CSAF directed 2030 Air Superiority eCCT D2D Campaign of Experiments Charter, May 16 Combat Cloud Operating Concept, Mar 16
Potential System Capability	• Major Customers: ACC/A2, SDPE, HAF/A2,
 Automated, machine-to-machine (M2M) data analysis at the tactical edge Distributed data storage, processing, fusion Data platform for analytic/application hosting Data translation/conversion (e.g. Link-16, UCI, XML) Tactical data reachback to enterprise nodes (e.g. AOC, DCGS) HW agnostic software solution 	 ACC/A5/8/9 External AF Interest: Navy ACS, Office of Naval Research, Army I2WD, OSD SCO, IC

• Multi-domain, Joint service connectivity



Open Radio Communication Architecture (ORCA)



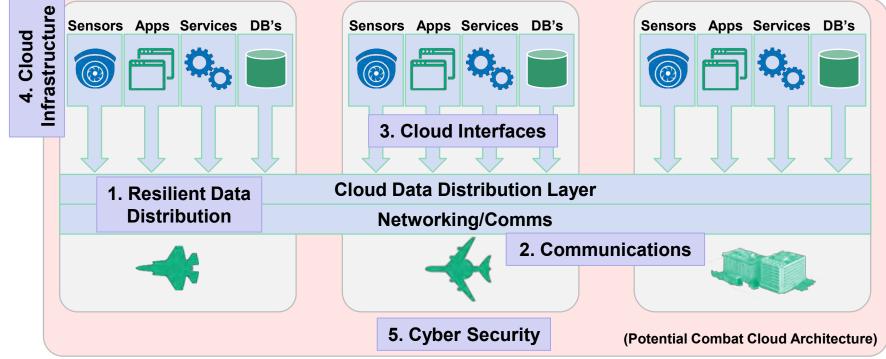




Where Can Industry Focus?

TIR FORCE LONG

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Enabling Technologies

- 1. Distributed message oriented bus architecture (e.g., OMS/ORCA)
- 2. Reliable communications in a contested environment (e.g., Link 16, ATDL, Protected SATCOM)
- 3. Common data standards enable rapid service integration across platforms (e.g., UCI, TCRI)
- 4. Composable services, analytics, data bases (leverage CMCC, DCGS, TENCAP efforts)
- 5. Multi-Level Security and cyber hardening



For More Information



- Col Steve Brooks, AFLCMC/HNJ

 (781) 225-1002
- Mr Tom Davenport, AFLCMC/HNJ
 (781) 225-1002
- Lt Col Ricky Howard, AFLCMC/HNJJ
 (781) 225-0867
- Mr Matty Collier, AFLCMC/HNJJ

 (781) 225-0970



PEO C3I&N Projected Business Opportunities



							_						
			FY	2017			FY2	018			FY2	019	
Division	Opportunity	1 st QTR OCT − DEC	2 nd QTR JAN- MAR	3 rd QTR APR- JUN	4 th QTR JUL- SEP	1 st QTR OCT- DEC	2 nd QTR JAN- MAR	3 rd QTR APR- JUN	4 th QTR JUL- SEP	1 st QTR OCT- DEC	2 nd QTR JAN- MAR	3 rd QTR APR- JUN	4 th QTR JUL- SEP
C3 Infrastructure	BITI Wired Network Mgt Sys -FY17 Base Recap -FY18 Base Recap -Infrastructure as a Service Pilot (Hanscom)			◆ RFP ◆ RFP ◆ R	FP A	ward Aw							
	Cyber Security and Control -Area Processing Center (APC) -Active Directory &Exchange (ADX) -Virtual Privacy Network (VPN) -SIPRNet			• 1	RFP 🔶	Award Award RFP Award	◆ A	Award					
	Theater Deployable Communication (TDC)-TDC Ann SW Sup Comm Fly Away Kit -NCC-D V4 UPS EOL -Config Laptop EOL	I R	FP	Award	RFP RFP	Award Award Award							



PEO C3I&N Projected Business Opportunities



			FY2017			FY2018				FY2019			
Division	Opportunity	1 st QTR OCT- DEC	2 nd QTR JAN- MAR	3 rd QTR APR- JUN	4 th QTR JUL- SEP	1 st QTR OCT- DEC	2 nd QTR JAN- MAR	3 rd QTR APR- JUN	4 th QTR JUL- SEP	1 st QTR OCT- DEC	2 nd QTR JAN- MAR	3 rd QTR APR- JUN	4 th QTR JUL- SEP
C3 Infrastructure	Common Computing Environ (CCE)			F	Possible	e Re-co	mpete i	n FY17	/18				
	Integrated Management Suite (IMS)				RFP 🔶	Award							
Space/Aerial	Common Data Link (CDL)				ward								
	Tactical Data Links						RFP				Award		
	Ground Support System Jordan				RFP	Award	I						
Crypto/Cyber	FIA2T		•	Award									
	Cyber Vulnerability Assessment Hunter			Award									

Business Opportunities may mature over the next 12 to 24 months in Collaboration Pathfinder, Unified Platform, Cyber Proving Ground, Crypto Modernizations and Agile Communications Keep checking Federal Business Opportunities (www.fbo.gov)







Name	Title	Phone
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Col Todd Krueger Todd.krueger@us.af.mil	Space Aerial and Nuclear Division Chief HNA	781-225-4088
Col John Bedingfield John.bedingfield@us.af.mil	C3I Infrastructure Division Chief HNI	781-225-6216
Col Gary Salmans Gary.salmans@us.af.mil	Crypto and Cyber System Division Chief HNC	210-977-2253
Col Steve Brooks Stephan.brooks.@us.af.mil	Special Programs Division	781-225-1002

Questions?



Back up--Acronym List by Division

AFLCMC... Providing the Warfighter's Edge

Space, Aerial and Nuce	ear Networks Division (HNA):
Battlefield Airborne Communication Node (BACN)-
Urgent Operational Need (UON)	
Combat Identification (CID) Server Joint Urgent	B-2 Link 16 Cryptographic
Operation Need (JUON)	Tactical Data Networks Enterprise (TDNE) - TDL
	System Integration/Gateway Integration/JCTD -
	JETPACK
Airborne Network GIG Interface (ANGI)	Tactical Data Networks Enterprise (TDNE) - TDL
	System Integration/TDN Integration/JINTACCS
5th to 4th Tactical Gateway	Tactical Data Networks Enterprise (TDNE) - TDL
	System Integration/TDN Integration/NATEX
Joint tactical Radio System (JTRS)	Tactical Data Networks Enterprise (TDNE) - TDL
	System Integration/TDN Integration/Net Centric
Common Data Link (CDL)	Capability Assessment
	Tactical Data Networks Enterprise (TDNE) - Other
	Gateways
	Tactical Data Networks Enterprise (TDNE) - TDL
Link 16 Foreign Military Sales (FMS) - All	System Integration/TDN Integration/Requirements
Curser on Target (CoT) - Tactical Data Networks	Analysis (JALN RA)
Enterprise (TDNE)	Strategic Emergency Alert Telephone System
	(Seats)
Airborne Digital Information System (ADIS)	Tactical Data Networks Enterprise (TDNE) - TDL
Tactical Data Networks Enterprise (TDNE) - Air	System Integration/TDN Integration/Joint Airborne
Force Participating Unit (AFPU)	Network Tactical Edge (TENC2)
Tactical Data Networks Enterprise (TDNE) -	Command & Control Intelligence Survelliance &
Coalition Interoperability	Reconnaissance Tactical Data Link (C2ISR TDL)
	Test Asset Reallocation (TAR)
F-15 Link 16 Cryptographic	Global Broadcast Service (GBS)
F-16 Link 16 Cryptographic	Global Broadcast Service Defense Enterprise
	Computing Center (GBS DECC)
B-1 Link 16 Cryptographic	MILSATCOM Space/Secure Mobile Anti-Jam
	Reliable Tactical Terminal (SMART)
	Air Force Wideband Enterprise Terminals (AFWET)
	All Force Wideband Enterprise Terminals (AFWET)

(Adv Dev)

MILSATCOM Terminals/Advanced Development

C3I Infrastructure Division (HNI):

Base Information Trai Wired	nsport Infrastructure (BITI)
Theatre Deployable C	Communications (TDC)
Global Combat Suppc AF)	ort System - Air Force (GCSS -
Global Combat Suppc AF) Data Services (DS	ort System - Air Force (GCSS -)
Air Force Enterprise I	nformation Services (AF EIS)
Air Force Cyberspace	Defense (ACD)
Air Force Intranet Cor	ntrol (AFINC)
Cyberspace Security a	and Control System (CSCS)
Capabilities Integration	on Environment (CIE)
Voice Systems	
AIRCOM Product Sup	port
Cloud Computing Env Joint Expeditionary Fe	ironment (CCE) orces Experiment (JEFX)
Special Prog	rams Division (HNJ):
Special Access Progra	ms (SAP)
FAB-T	Division (HNS):
Family of Advanced B Terminals Increment	

Presidential and National Voice Conferencing (PNVC) Integrator

Back up--Acronym List by Division

AFLCMC... Providing the Warfighter's Edge

Crypto & Cyber Systems Division (HNC):

KG-3X Cryptographic Modernization	Intel and Force Protect (I&FP) Product Lifecycle
	Support
Aerospace Vehicle Equipment (AVE) Increment 1	
	Algorithm (IA) Transition, Compliance and Support
KIV-XX Mini Cryptographic	Identification Friend or Foe (IFF)
KG-XX Space Modular Common Cryptographic	
(SMCC)	
AF Key Management Infrastructure Last Mile (AF	HNCY Cyber Situational Awareness (SA)
KMI LM)	KL-90 Missile Electronic Encryption Device (MEED) Modification
Air & Ground (A&G) Communications Security	
(COMSEC)	AF Key Management Infrastructure (KMI)
	Commodities
	AF Key Management Infrastructure (KMI) Lifecycle
	Support (LS)
Air & Ground (A&G) FMS - All	
Tactical Terminal Systems (TTS) Lifecycle Support	AF Key Management Infrastructure (KMI)
(LS)	Transition
ARC-234 Baseband Input/Output (BBIO)	
Cryptographic Modification (CM)	Network Attack System (NAS) WSS
Cyber Command and Control (C3MS)	National Defense and Education Program (NDEP)
	Offensive Cyber Ops (OSO) non-WSS
Cyber Defense Analysis (CDA)	Public Key Infrastrucuro (DKI)
	Public Key Infrastrucure (PKI)
Cyber Vulnerability Assessment - Hunter (CVA-H)	Public Key Infrastrucure (PKI) Lifecycle Support
Cyber Technical Projects	
Electronic Key Management System (EKMS)	Rapid Cyber Acquisition (RCA)
Lifecycle Support	
	Remote ReKey (RRK)
Electronic Key Management System (EKMS)	Remote ReKey (RRK) Lifecycle Support
Commodities	Technical Development (TD) Commodities
	Technical Development (TD) Knowledge
	Management
	Space Communications Security (COMSEC)
	Space Communications Security (COMSEC)
	Lifecycle Support (LS)
	VINSON/Advanced Narrowband Digital Voice Terminal (VACM)
	Classified Data At Rest (CDAR)
	Bounty Hunter (BH)
	bounty numer (bri)

EW & Avionics Division (WNY):

Vinimum Essential Emergency Communications
Network (MEECN)
oint Tactical Information Distribution System
JTIDS)
Roll-On Beyond Line-of-Sight Enhancement (ROBE)
Con-On Beyond Line-or-Signt Enhancement (KOBE)
Situation Awareness Data Link (SADL)
Pocket-J
oint Air Defense System Integrator (JADSI)
oint Range Extension/JRE TMPG Equipment
Package (JRE/JTEP)
Common Link Integration Processor (CLIP)
ink 16 Alaska (LAK)
oint Tactical Information Distribution System
JTIDS) FMS
Multifunctional Infromation Distribution System
MIDS)
Multifunctional Infromation Distribution System
MIDS) FMS
Miniature Receiver Terminal (MRT)
Modified Miniature Receiver Termainal (MMRT)
Defense Injection Reception Emergency Action

Message Command and Control Terminal (DIRECT

C3I&N programs transferred to NC3 Directorate:

Global - Aircrew Strategic Network Terminal (G-
ASNT) Increment 1
Global - Aircrew Strategic Network Terminal (G-
ASNT) Increment 2
Minuteman Minimum Essential Emergency
Communications Network (MEECN) Program
(MMP) Upgrade
Minuteman Minimum Essential Emergency
Communications Network (MEECN)
Common VLF Receiver - Increment 2 (CVR-Inc 2)
Electromagnetic Pulse Hardened Dispersal
Communications (EHDC)
Defense Injection Reception Emergency Action
Message Command and Control
Terminal / Alternate Injection Terminal
(DIRECT/AIT)
Miniature Receive Terminal / Modified Miniature
Receive Terminal (MRT/MMRT)

