

AF Life Cycle Management Center

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AFLCMC... Providing the Warfighter's Edge



AFLCMC/HNI Federal Networks Conference

Colonel Bobby King Senior Materiel Leader AFLCMC/HNI 26 February 2019



HNI: Start with why



What

Develop, deliver and sustain warwinning cyber & IT capabilities for the Air Force.

<u>How</u>

Clear Strategy that focuses on:

- Motivated People
- Efficient Processes
- Satisfied Customers

Why

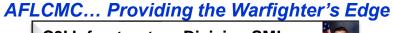
Secure/reliable data & comms are critical for Airmen to win our Nation's future wars!

Ref: Simon Sinek



HNI Organizational Chart





C3I Infrastructure Division SML Col Bobby King



C3I Infrastructure Div Military Deputy Col Justin Collins



Director of **Engineering (DoE)** Mr. Brian Kropa



Director of Comm/ Computer/IT (COS) Vacant

Director of Logistics (DoL) Ms. Mariah Stein



Financial Mgmt Branch (HNIF) Ms. Lissa Lalonde



Cost Mamt Branch (HNIG) Mr. Nicholas Marquez



Contracting Mamt Branch (HŇIK) Ms. Themoula Poirier



Cyber & IT Infrastructure Ops Branch (HNIA) Maj Matthew Speed

- Program Integration
- Division Operations
- Weapon System Int



Technology & Strategic Planning Branch (HNIX)

- Mr. Mike Platteel Technology Roadmap
- HCIC
- Strategic Communicatio
- Data Integration



Cyber Sustainment Branch (HNID)

- Lt Col Mark Connell
- Sustainment Agreement
- · TO/TCTO
- Service Support Contracts
- AFSN



Base Infrastructure Branch (HNIB) Lt Col Charles O'Connor

- BITI
- TDC EITaaS
- CSCS Weapon System -- (APC. IPN. ACÁS.





Mr. Doug Tayrien

- ACD Weapon System
- -- (ECN, ENFAAS, HBSS) AFINC Weapon System
- -- (GWs, AF JRSS support)



Commoditized Infrastructure **Branch (HNII)**

- Lt Col Todd Watson
- · GCSS-AF
- Data Services
- · CIE
- CCE
- EMNS · CHES
- EIS SharePoint





AFLCMC/HNI FY19 Priorities



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- EITaaS (also PEO C3I&N #1 priority)
- Emergency Mass Notification System (EMNS) (CSAF Quick Reaction Capability)
- Cloud Hosted Enterprise Services (CHES) / Enterprise Information Services (EIS)
- Common Computing Environment (CCE)—Cloud / Platform as a Service (PaaS) / Software as a Service (SaaS)
- SIPR Modernization
- Enterprise Logging / Data Analytics
- Data Integration
- Guardian / Logistics Rapid Acquisition Contract (LRAC)
- Dual Path Resiliency (formerly Bottleneck)
- CCE—Enterprise Resource Planning (ERP)
- Theater Deployable Communications (TDC)
- Silver Hawk Prototype
- Logistics Installations and Mission Support-Enterprise View (LIMS-EV) Refactor into CCE
- CCE—Cloud Development Lab



AFLCMC/HNI Accomplishments/Successes – 2018



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Base Information Transport Infrastructure (BITI)

- Base Area Network (BAN) FY18 Wired Recap contract award – 35 active and Guard bases
- Network Management System (NMS) award –
 SolarWinds at 185 locations







After BITI

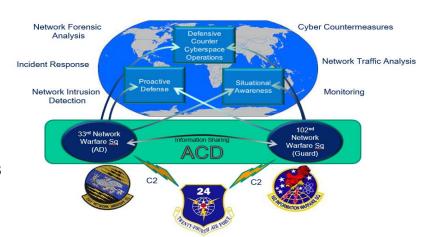


Cyber Security and Control System (CSCS)

 SIPRNet Enterprise Modernization Fair Opportunity Request (FOPR) released 21 Sep 18

Air Force Cyberspace Defense (ACD)

- ACD Dual Operations Baseline contract awarded, with execution in full swing
- ENFAAS Employment Phase II contract award 28 Feb 18
- Enterprise Logging contract award 14 Dec 18





AFLCMC/HNI Accomplishments/Successes – 2018

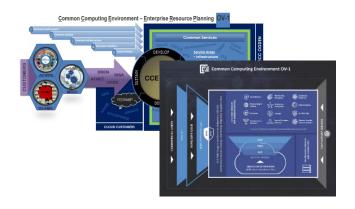


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Air Force Intranet Control (AFINC)

- ANG Domain Name Server (DNS) deployment contract award
- Initiated Dual Path Resiliency (formerly Bottleneck) 10G deployments at Scott AFB and WP AFB





Common Computing Environment (CCE)

- Migrated 19 Applications to the Cloud
- Successfully moved Air Force Portal to Amazon Web Services (AWS)

Enterprise IT as a Service (EITaaS)

- Two "Network as a Service" (NaaS) ElTaaS USC 2373 Agreements awarded 26 Sep 18
- PEO and EIT Governance Board approved EITaaS viability/ scalability plan





AFLCMC/HNI Accomplishments/Successes – 2018



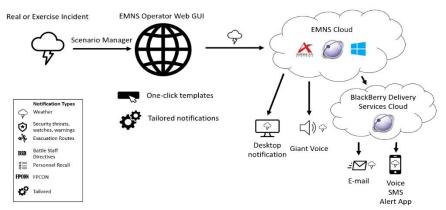
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Cloud Hosted Enterprise Services (CHES)

- Migrated 564,974 out of 575,000 CONUS AF accounts to O365
- 444,907 users migrated to Skype for Business
- SharePoint Online available to AF users as of 21 Dec 18



OV-1: Notification Dissemination



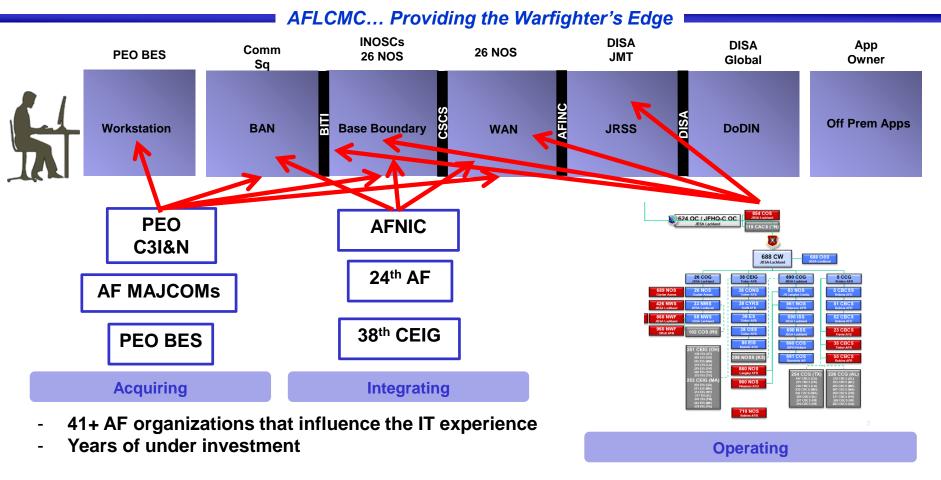
Emergency Mass Notification System (EMNS)

- DISA Cloud Access Point (CAP) Connection 8 Oct 18
- MAJCOM migrations began 10 Dec 18



Current AFNET Situation





Detractors from End User Experience





HNI's Obsession: End User Experience AFLCMC... Providing the Warfighter's Edge



Commercial Cloud **Environment**

PKI-Enabled **Enterprise Applications**

Best of Breed Commercial **Transport**

End User Devices



- User Desktop
- **Applications**
- Mobile
- Service Catalog
- Helpdesk
- **AFECMO**
- **ITCC**

- Hosting
- Dev Ops
- Machine Learning
- Application Rationalization
 - Software as a
- O365
- SharePoint Online
- Microsoft OneDrive

SDN

Edge Protection

Network

Security

- Service
- Amazon Web Services
 - Azure
 - CCE
- Skype for **Business**
- Adobe







Goal: Deliver Transformational IT to the Air Force

- **Create Integrated Program Office**
- **Contract directly with IT industry** leaders rapidly
- Challenge policies that detract from end user experience
- **Continuously innovate and adopt** latest technology



Rapidly Getting Latest Tech to Warfighters: Key to the American Military Advantage



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Hanscom Collaboration and Innovation Center (HCIC)



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- Air Force hub for C2 excellence through collaboration and innovation
- Partnerships with local and state governments, Air & Army National Guard, laboratories, academia and industry
- 29K sq. ft. collaborative environment supporting RDT&E and M&S exercises, experimentation, program office and direct warfighter support
- Offers a flexible and hands-on R&D/Prototyping environment as well as secure and scalable mission environments
- Focal point for Cooperative Research And Development Agreements (CRADA), Plug Test, and education partnerships

Bringing innovative RDT&E concepts to warfighting C4ISR & Cyber



Enterprise IT as a Service (EITaaS)



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Warfighter Benefits
Drives game changing behaviors to enhance mission effectiveness and end-user journeys.
Will enable worldwide access to Air Force data and applications for all Airmen
Modernizes legacy network infrastructure with resilient, commercially provided IT solutions
Will enable the Air Force's ability to remission Airmen from traditional roles to core defense mission
Specifics
Requirements Basis: ACC
Major Customers: SAF CIO A6, HAF Functionals, AFSPC, MAJCOMS
<u>Contractors</u> : Microsoft and AT&T (Network as a Service); other Service Providers pending agreements
External AF Interest: On-going collaboration with the U.S.
Army; intends to leverage existing DoD services where applicable



Potential Industry Opportunity EITaaS



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<u>Description</u>: Enterprise IT as a Service (EITaaS) – Leverage best practices from commercial industry to provide standardized, innovative, and agile Information Technology (IT) services to the Air Force (AF) as a service. IT and resources managed across the AF providing connect, protect, storage, computing, hardware, software, common IT services, commodities, and hosting for Enterprise mission and business systems.

Anticipated Schedules:

Compute & Store (C&S) objective award date 31 Mar 19

Customers: ACC as lead MAJCOM, SAF CIO A6, every AF user

POCs: Maj Jonathan Demers, AFLCMC/HNIB, 781-225-2725, jonathan.demers@us.af.mil

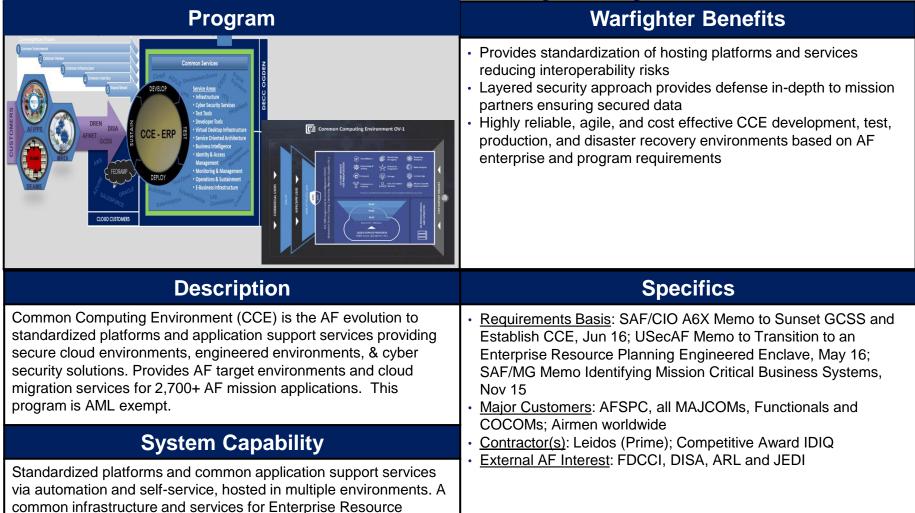
Ms. Sara Corsetti, PCO, AFLCMC/HNIK, 781-225-4081, sara.corsetti@us.af.mil



Common Computing Environment (CCE)



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Planning (ERP) applications within DISA hosted Capacity Services.



Potential Industry Opportunity Cloud Migration (CCE/CT2)



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<u>Description</u>: Follow-on contract for AF Cloud Migration to replace current GCSS-AF (G2) contract. Activities to include CCE System Integration, Cloud Transition Team (CT2) support, Application and Services Sustainment, and Application Cloud Migration. Emphasis will be on migrating AF applications and services to CCE commercial cloud enclaves.

Schedule: RFP 2QFY19

Anticipated Contract: TBD

Anticipated Procurement Approach:

- Best Value/Trade Off
- One (1) Task Order for Managed Service Provider (MSP), CT2/MSO support, Application Migration, and CCE Ops & Sustainment
 - Application Migration expected to be accomplished via issuance of Technical Instructions (TIs)

Customers: ACC as lead MAJCOM, SAF CIO A6, every AF user, mission application owners

POCs: Lt Col Todd Watson, AFLCMC/HNII, 781-225-2780, todd.watson@us.af.mil

Ms. Themoula Poirier, PCO, AFLCMC/HNIK, 781-225-2660, themoula.poirier@us.af.mil



Silver Hawk



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Warfighter Benefits

Silver Hawk will:

- Resolve long standing asset accountability and configuration product baseline deficiencies in the Cyber Security Control System (CSCS) weapons system
- Improve asset management (AM) compliance and standardization resulting in:
 - Cost reduction
 - Enhanced and more reliable network performance
 - Greater network security
- Lead HNI Enterprise and USAF movement in AM, paving the way for Guardian/EITaaS transition

Description	Specifics
 AFLCMC/HNI-developed/awarded/managed contract. Silver Hawk is a turnkey solution - a merger of technology (tool/application) and new business processes delivered as a vendor-supplied service solution to standardize Asset Management of Information Technology hardware and software assets. 	 Non-ACAT Requirements Basis: ACC Major Customers: ACC as lead MAJCOM and every AF user External AF Interest: Any DoD Service



Potential Industry Opportunity Silver Hawk Contracts



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<u>Description</u>: Asset Management as a Service with potential growth of Configuration and Incident Management – SilverHawk is a turnkey solution - a merger of technology (tool/application) and new business processes delivered as a service. The Silver Hawk solution is scalable. The scope in phase 1 focuses on the CSCS Weapon System, with future expansion to all HNI programs and the AF Enterprise

Anticipated Schedules: RFQ 3Q FY19

Anticipated Vehicles: Acquisition Strategy in Work

Anticipated Procurement Approach: Five year PoP

Customers: ACC as lead MAJCOM, SAF CIO A6, and every AF user

POCs: Mr. Scott Regolino, AFLCMC/HNID, 781-225-3495, scott.regolino@us.af.mil

Mr. Nick Matthews, PCO, AFLCMC/HNIK, 781-225-2655, nicholas.matthews.1@us.af.mil



Logistics Rapid Acquisition Contract (LRAC)



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Warfighter Benefits

LRAC will deliver a Quick Action Response Capability to Unknown/Unplanned Cyber Challenges while also providing Continuous Industry monitoring that will ensure the latest technological solutions are brought to fight:

- Downed systems (centralized crisis logistics support)
- Evolving requirements and solutions
- Capacity expansion
- Obsolescence (out-of-cycle)
- Counterfeit remediation
- Rapid tech upgrades (vulnerability response)

Description	Specifics
 AFLCMC/HNI enterprise-wide contract vehicle with flexibility to respond rapidly to unforeseen urgent product support issues throughout the AFLCMC/HNI portfolio LRAC will provide adaptive life cycle capabilities sustainment, centralized counterfeit remediation, capacity expansion, rapid response to downed systems, mitigation and solutions to unplanned obsolescence and rapid tech refresh. 	Non-ACAT Major Customers: ACC as lead MAJCOM, all Fixed Bases, and every AF user External AF Interest: None



Potential Industry Opportunity Logistics Rapid Acquisition Contract (LRAC)



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<u>Description</u>: AFLCMC/HNI enterprise-wide contract vehicle with flexibility to respond rapidly to unforeseen urgent product support issues throughout the AFLCMC/HNI portfolio

Anticipated Schedules: Target RFP 3Q FY19

Anticipated Vehicles: Single-award Indefinite Delivery/ Indefinite Quantity (IDIQ)

Anticipated Procurement Approach: Labor Hour

Customers: ACC as lead MAJCOM, SAF CIO A6, all Fixed Bases, every AF user

POCs: Mr. Scott Regolino, AFLCMC/HNID, 781-225-3495, scott.regolino@us.af.mil

Mr. Robert Durant, PCO, AFLCMC/HNIK, 781-225-0429, robert.durant@us.af.mil



Theater Deployable Communications (TDC)



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Program Commercial Wilitary Full Motion Video / IsR Air Control Elements (CRC & DR) Air Support Operations Contingency Response Flements Full Motion Video / IsR Air Support Operations Contingency Response Flements CRC & DR) Base Infrastructure for AFFOR, AOC, JFACC, DATCALS, NATO/Coalition Forces

Warfighter Benefits

- Any Extend the Net (ETN) mission
 - · Bare-base build-up
 - HUMRO missions/Natural Disasters
 - Quick Response for Aircraft Incidents
 - Defense Support to Civil Authorities
 - COCOMS through RFF Tasking

Description

- TDC provides communication services ISO Contingency Response Forces (CRF), Theater Air Control System (TACS), AEW/AEG, C/JFACC and Special Operations Units
- TDC is an O&S program

System Capability

 Communications infrastructure designed to transmit and receive voice, data and video securely from wired, wireless and satellite sources (intra and inter-theater)

Specifics

- Requirements Basis: ORD (Feb 95)
- <u>Major Customers</u>: ACC (lead), AFSPC, AFRC, AMC, PACAF, USAFE, ANG
- Contractors: Multiple (NETCENTS 2 vendors)
- <u>External AF Interest</u>: STRATCOM, AFRICOM, PACOM, EURCOM, TRANSCOM



Potential Industry Opportunity TDC Contracts



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<u>Description</u>: Information Transport Infrastructure – TDC is the communications infrastructure designed to transmit and receive voice, data and video securely from wired, wireless, and satellite sources

Anticipated Schedules:

- TDC Site Distribution: FOPR 3Q FY19, Award 4Q FY19
 - Modernization of the TDC network transport infrastructure

Anticipated Vehicles: NETCENTS2 Products

Anticipated Procurement Approach: LPTA, Firm Fixed Price

<u>Customers</u>: ACC as lead MAJCOM, SAF CIO A6, USAFE, PACAF, ANG, AFRC, AMC, every AF user

POCs: Lt Col Charles O'Connor, AFLCMC/HNIB, 781-225-2695, charles.oconnor@us.af.mil

Mr. Nick Matthews, PCO, AFLCMC/HNIK, 781-225-2655, nicholas.matthews.1@us.af.mil



Base Information Transport Infrastructure (BITI)



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Program	Warfighter Benefits
	 Provides a Security Technical Implementation Guide (STIG) 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 BITI is an ACAT IAC program in sustainment. Delivers the Air Force wired and wireless cyber network infrastructure at each Air Force, Air Force Reserve, and Air National Guard base.	Successes: Turnkey Mods nearing Completion FY16 Wired Recap in execution FY16 Wireless Recap in execution
BITI is an ACAT IAC program in sustainment. Delivers the Air Force wired and wireless cyber network infrastructure at each Air Force, Air Force Reserve, and Air	Successes: Turnkey Mods nearing Completion FY16 Wired Recap in execution



Potential Industry Opportunity BITI Enterprise Contracts



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<u>Description</u>: FY19 Base Recapitalization – To provide an Information Transport Infrastructure

Anticipated Schedules: FY19 Base Recapitalizations: FOPR 2Q FY19, Award 4Q FY19

Anticipated Vehicles: NETCENTS2 Products, NETCENTS2 NETOPS & Infrastructure

Solutions

Anticipated Procurement Approach: Trade-Off, Firm Fixed Price

Customers: ACC as lead MAJCOM, SAF CIO A6, every AF user, MAJCOMs, all Fixed Bases

POCs: Lt Col Charles O'Connor, AFLCMC/HNIB, 781-225-1744, charles.oconnor@us.af.mil

Ms. Themoula Poirier, PCO, AFLCMC/HNIK, 781-225-2660, themoula.poirier@us.af.mil



Cyber Security and Control System (CSCS) Weapon System



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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

Description

The mission of the CSCS is to generate, project, and sustain combat cyberspace power by defending and shaping cyberspace terrain, enabling the advantageous freedom of maneuver, situational awareness (SA), and effective command and control (C2) of AF Forces in support of the joint warfighter. The CSCS weapon system provides the 24/7/365 capability to operate and defend the AF's portion of the Department of Defense Information Network (DoDIN) IAW USCYBERCOM orders and CIO taskings. Current focus is on capability upgrades, tech refresh, program sustainment and operational support. CSCS is a non-ACAT weapon system.

System Capability

CSCS WS provides AF enterprise services including:

- Directory & Authentication
- Network Monitoring
- Messaging & Collaboration
- Boundary & Infrastructure

Specifics

- Requirements Basis: CPD, 10 Oct 14
- Non-ACAT Weapon System
- Operational Capability: FOC Declared 16 Jun 17
- Major Customers: ACC, 24 AF
- <u>Contractors</u>: Agile Defense, Sword & Shield, World Wide Technology, Booz Allen Hamilton, SMS Data Products, Serrano IT, Intelligent Decisions, QIVLIQ Fed Group
- · Operational Units:
 - Active: 83 NOS, 561 NOS, 690 COS, 691 COS, 690 NSS
 - Guard: 299 NOSS
 - Reserve:
 - 53 NOS (Peterson), 851 NOS (Langley) 960 CW AFRC
 - External AF Interest: DoD CIO

• Storage & Virtualization



Potential Industry Opportunity Enterprise IT Service Management System (EITSM) 2.5



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<u>Description</u>: Migrate existing EITSM capability to the Air Force Provisional Data Center

(AFPEDC)

Anticipated Schedules: Target FOPR release Sep 19

<u>Anticipated Vehicles</u>: TBD – NETCENTS/GSA

Anticipated Procurement Approach: TBD

Customers: ACC as lead MAJCOM, SAF CIO A6, every AF user, all Fixed Bases

POCs: Mr. Richard Friedlander, AFLCMC/HNIB, 781-225-9614, richard.friedlander.2@us.af.mll

Ms. Themoula Poirier, PCO, AFLCMC/HNIK, 781-225-2660, themoula.poirier@us.af.mil



Air Force Intranet Control (AFINC) Weapon System



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Program



Warfighter Benefits

- Persistent on-demand DCO capabilities to counter emergent threats to the AFIN
- Persistent on-demand DODIN Operations capabilities to resolve network events and incidents across the AFIN
- Mission assurance for all AF data, applications, and users transiting the AF Wide Area Network

Description

Category: Non-ACAT Weapon System

The AFINC WS is the Air Force Wide Area Network operations and defense enterprise boundary and represents the AF strategic entry points into the DODIN. AFINC delivers cyberspace capabilities for the 26 NOS DCO and DODIN Operations missions.

System Capability

Lines of Operations: Prevent, Detect, and Respond

- Persistent DCO and DODIN Operations capabilities
- Dedicated Out of Band Management network for cyber WS employment
- Enterprise logging and analysis capabilities
- Enterprise C2 and situational awareness
- · Physical and logical infrastructure for ACD and CDA WS

Specifics

- Requirements Basis:
 - CPD: 10 Oct 14; CITS ORD 98, revalidated 23 Oct 08; SCG 17 Apr 17
 - Full Operational Capability declared 7 Jan 16
- Lead Command: ACC
- · Major Projects:
 - IMS Expansion Phase I
 - ANG Domain Name Server (DNS)
 - · Dual Path Resiliency (formerly Bottleneck) Lite/Heavy
 - Network Time Protocol (NTP)
 - Secure Socket Layer (SSL) Central Manager
 - Gateway Decommissioning
- Contractor: Primes & Critical Subs followed by: (P) or (S):
 - Telos (P), Kratos Technology (P)
- Quantities: 16 Gateways, 2 Integrated Management Systems (IMS)
- External Program Dependencies:
 - ACD ENFAAS, CSCS Web Proxy, JRSS Migration



Potential Industry Opportunity AFINC



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<u>Description</u>: Dual Path Resiliency – Effort to integrate and deploy a bandwidth upgrade at priority base boundaries that eliminates bottlenecks, improves network user experience, and enables network performance management.

Schedule: FOPR issue to industry 3Q FY19, Award 1Q FY20

Anticipated Contract: Acquisition Strategy in work

Anticipated Procurement Approach: Acquisition Strategy in work

<u>Customers</u>: ACC as lead MAJCOM, SAF CIO A6, every AF user, 26th Network Operations Squadron

POCs: Mr. Levi Abrams, AFLCMC/HNIM, 781-225-0610, levi.abrams@us.af.mil

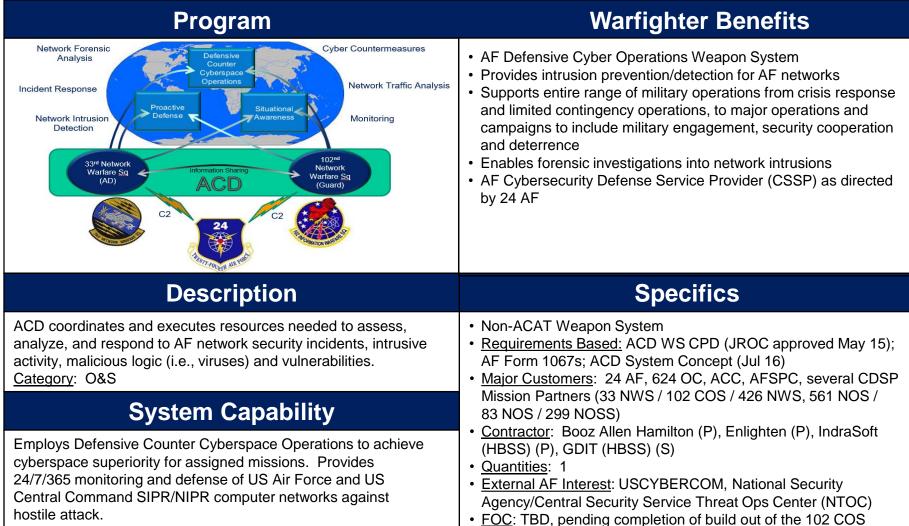
Mr. Steven Pekunece, AFLCMC/HNIK, 781-225-4782, steven.pekunece@us.af.mil



AF Cyberspace Defense (ACD) Weapon System



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(ANG) for Dual Ops Capability. Contract Award – Jul 18



Potential Industry Opportunity ACD



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<u>Description</u>: Endpoint Security Solutions (ESS) formerly HBSS – Follow on multi-year contract to continue mission-critical endpoint security cyber defense efforts for the Air Force Network (AFNet)

Schedule: Contract award Jun 19

Anticipated Contract: NETCENTS 2 - Application Services (F&O / SB)

Anticipated Procurement Approach: Time & Material / Fixed Price elements

Customers: ACC as lead MAJCOM, SAF CIO A6, every AF user

POCs: Mr. Dale Forman, AFLCMC/HNIM, 781-225-4787, dale.forman.1@us.af.mil

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



Potential Industry Opportunity ACD



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<u>Description</u>: Cyber Operations Based Rapid Analytics (COBRA) – Cloud-based cyber analytics capability (DISA Big Data Platform (BDP)) to satisfy serval overarching cyber operation's needs.

Schedule: Contract award May 19 (notional)

Anticipated Contract: GSA IT Schedule 70

Anticipated Procurement Approach: Firm Fixed Price

Customers: ACC as lead MAJCOM, SAF CIO A6, every AF user

POCs: 1Lt Eric Fonnesbeck, AFLCMC/HNIM, 781-225-4585, eric.fonnesbeck.1@us.af.mil

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HNI FY19 Goals



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HNI is well positioned for FY19 and beyond!

- Award all EITaaS RRE efforts by 2nd Qtr 2019
- Tyndall rebuild effort to IOC by March 2019 IAW COMACC request
- Migrate 100 applications to CCE
- Deliver ALL O-365 services to ALL USAF users
 - 40TB of SharePoint data migrated to SharePoint Online
 - Microsoft Teams integration is a priority
- Realign portions of AF Cyberspace Defense (ACD) from HNI to HNC
- Realign PKI SPO and AF Directory Services (AFDS) from HNC to HNI
- Realign AFECMO/ITCC from PEO BES to HNI
- Award Logistics Rapid Acquisition Contract (LRAC)
- Award SIPR modernization contract
- Complete Dual Path Resiliency efforts at Scott AFB and WPAFB
- Deliver Data Integration and Machine Learning capabilities
- Deliver LIMS-EV in CCE
- EMNS to 95% of AF users