NEW HORIZONS 2015

Maj Gen Craig S. Olson
PEO C3I&N
3 Mar 15

41 Days To Home Opener!

Case No: 66ABG-2015-0019/27
PEO C3I&N Mission
AFLCMC… Providing the Warfighter’s Edge

Connecting Warfighters With Affordable, Secure & War-Winning Cyber, C3I & Network Systems

**Integrity - Service - Excellence**

**SPACE, AERIAL & NUCLEAR NETWORK SYSTEMS**

**C3I INFRASTRUCTURE**

**CRYPTO & CYBER SYSTEMS**

- ~2,200 Personnel
- 30+ C3I&N Programs
  - 1 ACAT I
  - 2 ACAT II
  - 7 ACAT III
  - 3 QRC/JUONs
  - 25+ Sustainment/Product Support
- $10.95B (FY11-17)
- FMS 12 Direct/70+ Lines
- $169.2M (Active LOA’s)

*As of 14 Mar 2014*
PEO C3I&N Locations

Integrity - Service - Excellence
PEO C3I&N Guiding Principles

- Life Cycle Focus
- Government Owned Standards/Architectures
- Innovation & Efficiency
- Better Buying Power (OSD)
- Bending The Cost Curve (Air Force)
- Collaboration Across PEO Portfolios and Across Enterprise

Improving Future State for Terrestrial, Air, Space, Cyber Domains As Government / Industry Partners
Strengthening the Journey With Enterprise Partners

AFLCMC… Providing the Warfighter’s Edge

Industry Partners

Integrity - Service - Excellence
Terrestrial Domain

Why JIE?

- **Improved Mission Effectiveness**
  - Rapid, dynamic response to support changing mission information needs
  - Timely, secure access to data and apps needed to accomplish assigned missions
  - Trusted end-to-end connectivity
  - Capabilities still available during an event; resilient

- **Increased Security**
  - Operate, monitor and defend IT assets to attain and maintain information dominance

- **IT Efficiencies**
  - JIE information assets are Joint
  - Consistent IT architecture supports effective fielding of Department capabilities
  - DoD has renewed visibility on IT expenditures through increased budget transparency

**JIE = Government Owned Journey From “Many to Few” (BBP+BTCC)**
JIE & Air Force Core Missions

- **Air and Space Superiority**
  - Freedom from Attack and the Freedom to Attack

- **Intelligence, Surveillance, and Reconnaissance**
  - Eyes and Ears on Adversaries

- **Rapid Global Mobility**
  - Delivery on Demand

- **Global Strike**
  - Any Target Any Time

- **Command and Control**
  - Total Flexibility

JIE SUPPORTS ALL AF CORE MISSIONS

*Integrity - Service - Excellence*
Cyber Domain
Cyber Weapons Supporting 24 AF Lines of Effort

1. Operate the AF Information Network (AFIN)
   - Cyber Security Control System (CSCS)
     Role: Infrastructure/Mgmt
   - Air Force Intranet Control (AFINC)
     Role: Infrastructure/Mgmt

2. Defend the AFIN, Key Mission Systems, and Specified Nets
   - Cyberspace Vulnerability Assessment/Hunter (CVA)
     Role: Mission Assurance
   - Cyberspace Defense Analysis (CDA)
     Role: Monitoring
   - AF Cyberspace Defense (ACD)
     Role: Network Defense

3. Engage the Adversary
   - Network Attack System (NAS)
     Role: Offensive Ops

Delivering...Supporting...Modernizing
7 Cyber Weapons Systems
Cyber Domain
Responsive Cyber Acquisition
AFLCMC... Providing the Warfighter’s Edge

Cyber Airmen

AFLCMC
Cyber Solutions Cell
- Advise/assist operator
- Develop COAs
- Cyber knowledge base

Needs
Proposed COAs

Industry
S&T Community
Other Services & Agencies

Delivering Cyberspace Weapon System Capabilities

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Airborne Domain

Joint Aerial Layer Network (JALN)
Increased & affordable access across air & space through...
- Hi-capacity backbone
- Govt owned standards, interfaces, architecture
- Minimize variability in waveforms, radios, antennas, etc
NC3 Domain

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Fielded Systems
Systems in Development
Systems not currently funded

VLF/LF
EHF/AEHF
Landline

MILSATCOM/AEHF

Bomber, tanker, and recce airfields

Combatant commands’ command posts

National Military Command Centers

DIRECT

ICBM launch control centers

Mobile support teams

SMART-T

Global ASNT

B-52

MRT* / FAB-T / CVR Inc 2

E-4

MMRT* / FAB-T / CVR Inc 2

E-6

MMRT* / FAB-T / CVR Inc 2

KC-46

CVR Inc 2

RC-135

FAB-T

B-2

CVR Inc 1 / CVR Inc 2 / FAB-T

*(M)MRT: (Modified) Miniature Receive Terminal (will be replaced with CVR Inc 2)
Challenge: Bending the Cost Curve to Maximize Capability w/Available Funds

Integrity - Service - Excellence
FY 14 Activity – *Enhancing Small Business Opportunities*

- 25-27 Feb 14, New Horizons 2014 SB Opportunities/Panel
- 24 May 14, Massachusetts Business Connector Matchmaker Event sponsored by Senator Elizabeth Warren
- 18 Dec 14, Mass Military Asset and Security Task Force Small Business Forum

![Graph showing Small Business Achievement Awards to BM & C3I&N in FY13](image)

Ref: Hanscom Dir. of Contracting Metrics
C3I&N Program Opportunities
## PEO C3I\&N
### Projected Business Opportunities

*Integrity - Service - Excellence*

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<tr>
<th>DOMAIN</th>
<th>FY2015</th>
<th>FY2016</th>
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**Key:**
- **RFP** - Request for Proposal
- **Award** - Awarded
### PEO C3I&N

**Projected Business Opportunities**

*AFLCMC… Providing the Warfighter’s Edge*

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*Integrity - Service - Excellence*
## AF Intranet Control Weapon System

### Description

Provides top-level boundary and entry point into the AFIN; manages, protects, controls flow of all external and inter-base traffic through standard, centrally managed NIPRNet Gateways and 15 SIPRNet C2 Nodes.

### System Capability

COTS/GOTS based solution that establishes an enterprise level network with centralized network management, Defense-in-Depth, Proactive Defense, Network Standardization and Situational Awareness.

### Warfighter Benefits

- Creates the AF enterprise intranet with a standard security boundary
- AF Gateways are the primary external security boundary to Department of Defense Information Network (DoDIN)
- Reduces 100+ Global Information Grid (GIG) entry points to 16 Gateways and two Integrated Management Suites, greatly improving the AFNet security posture
- Includes the Hanscom AFB Collaboration and Innovation Center (HCIC) for TO validation/verification and system qualification testing

### Specifics

- **Major Customers:** 24 AF, 33 NWS, 26 NOS
- **Contract:** NASA Solutions for Enterprise-Wide Procurement (SEWP) Small Business
- **External AF Interest:** Interacts with numerous other AF Cyber Weapon Systems (e.g. CSCS, ACD, C3MS) with DOT&E Oversight
Potential Industry Opportunity
AF Intranet Control Weapon System

Description:
The Hanscom AFB Collaboration and Innovation Center (HCIC) has specific sub-system capability shortfalls compared to the operational configurations found at the 16 Gateways (GWs) and two Integrated Management Sites (IMSs). A complete compliment of two GWs and two IMSs within the HCIC is critical to successfully support the operational community.

Due to EOL/EOS dates passing, the AF GWs and IMS configurations require new Master/Media Backup and Certificate Servers running Symantec Net Backup application for backing up and/or restoring critical data.

Anticipated Schedule: Hanscom AFB Integration Facility Upgrade
• RFP: 2QFY15
• Contract Award: 3QFY15

Anticipated Contract: NETCENTS-2 Products

Anticipated procurement approach:
Single Lowest Price Technically Acceptable, Firm Fixed Price Contract

Customer:
Air Force Intranet Control Weapon System (AFINC WS), 26 Network Operations Squadron, and 33 Network Warfare Squadron

POC: Major Nithya Sieu, AFLCMC/HNIM, 781-225-4714; Mr. Christopher Molis, PCO, AFLCMC/HNIK, 781-225-4098

Integrity - Service - Excellence
## Base Information Transport Infrastructure FY15/16 Bases

**AFLCMC... Providing the Warfighter’s Edge**

### 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifics</th>
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</table>
| Delivers the Air Force wired and wireless cyber network infrastructure at each Air Force, Air Force Reserve, and Air National Guard base. | **Major Customers:** AFNetOps, MAJCOMs, all fixed bases  
**Contractors:** Affigent LLC, Centech Group, General Dynamics Information Technology, Lockheed Martin, Three Wire Systems LLC, Red River  
**External AF Interest (Wireless Only):** DOT&E oversight |

### System Capability

Recapitalizes core base cyber infrastructure (Network Core and Backbone equipment), providing redundant, high-speed and reliable wired and wireless cyber network capabilities.
Potential Industry Opportunity
BITI FY14/15 Wired Bases

**Description:** To provide an Information Transport System

<table>
<thead>
<tr>
<th>Anticipated Contract Schedule</th>
<th>Installation Location</th>
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<tbody>
<tr>
<td>FY15 Recapitalization Projects (48 bases total)</td>
<td>The Recapitalization effort establishes replacement of network core and backbone equipment (excluding outside plant infrastructure and access node equipment)</td>
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<tr>
<td>Multiple RFPs: 2QFY15</td>
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<td>Multiple Contract Awards: 3QFY15</td>
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<tr>
<td>FY16 Recapitalization Projects (TBD bases total)</td>
<td>Projects required to support recapitalization efforts at 175 USAF bases on a five-year cycle.</td>
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<tr>
<td>RFP: 1QFY16</td>
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<td>Contract Award: 2QFY16</td>
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- **Anticipated vehicle:** NASA SEWP IV/V SB or other available Government-Wide Acquisition Contracts (GWAC)
- **Anticipated procurement approach:** Lowest Price Technically Acceptable, Firm Fixed Price
- **Customer:** AFNetOps, MAJCOMs, all Fixed Bases
- **POC:** Lt Col Krolikowski, AFLCMC/HNIB, 781-225-2695; Mr. Paul Brown, AFLCMC/HNIK; 781-225-4093
**O&S Through FY27**

- **“Turnkey” Modernizations through FY14**
  - Includes Enterprise Funded Outside Plant Infrastructure as well as Full Inside Plant Infrastructure
- **COTS Recapitalization (Focused on Core and Critical Distribution nodes) beginning FY15**
  - Includes Enterprise Funded Inside Plan Infrastructure distinct to Core and Critical Distribution Nodes
  - Single Visit per Base (Agnostic to Wired/Wireless solutions)

### Base IT Infrastructure Schedule

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<th>Project</th>
<th>FY13</th>
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<td>Modernizations (Enterprise)</td>
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**BITI Mod/Recap Milestone Schedule**

**Integrity - Service - Excellence**
**Installation Service Node (ISN) / Installation Processing Node (IPN) Pathfinder**

**AFLCMC… Providing the Warfighter’s Edge**

**Warfighter Benefits**
- Consolidates multiple existing data centers and server farms on a base to one ISN/IPN
  - Reduces base data center power/cooling consumption
  - Reduces infrastructure costs; shrinks hardware/software support required at AF bases
- Allows Cyber Security and Control System personnel to focus on core mission tasks, and relieves Communication Squadrons of local infrastructure touch maintenance

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifics</th>
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<tbody>
<tr>
<td>ISNs/IPNs are an integral part of the Joint Information Environment (JIE) architecture / Federal Data Center Consolidation Initiative (FDCCI)</td>
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</tbody>
</table>
  - Provides the capability for a base to meet its mission requirements in a disconnected environment |
  - ISN/IPN will provide a single Infrastructure-as-a-Service hosting environment for core service and functional/mission apps |
  - Implements a Government Owned/Contractor Operated construct |
| Requirements Basis: JIE and FDCCI |
| Major Customers: AFSPC, AFGSC, USAFE, and 24AF |
| Contractor: Contractor to be selected |
| External AF Interest: DoD CIO |

- **NCC** – Network Control Center
- **SPPN** – Special Purpose Processing Node

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**Integrity - Service - Excellence**
### Potential Industry Opportunity

**IPN Pathfinder**

**AFLCMC... Providing the Warfighter’s Edge**

- **Description:** The IPN Pathfinder will provide a single hosting environment for both AFIN Core Services and functional applications (FAs) comprised of MAJCOM / mission / and program office applications. The Pathfinder will implement a Government Owned/Contractor Operated (GOCO) Infrastructure-as-a-Service (IaaS) construct at five AFGSC bases, four AFSPC bases, and one USAFE base.

- **Anticipated Schedule:**
  - RFP Date: ~ 3QFY15
  - Contract Award: ~ 4QFY15

- **Anticipated Contract:** GSA Alliant SB

- **Anticipated procurement approach:** Firm Fixed Price

- **Customers:** AFSPC, AFGSC, USAFE, AFMC, and 24 AF

- **POC:** Lt Col Krolikowski, AFLCMC/HNIB, 781-225-2695; Ms. Jen Sarson, PCO, AFLCMC/HNIK , 781-225-4104
**Cyber Command & Control Mission Mission System (C3MS) Weapon System**

The Cyber Command and Control Mission System (C3MS) is a system of systems used by the 624 Operation Center (OC) to gather Situational Awareness (SA) and conduct Command and Control (C2) functions of the AF Information Network (AFIN).

### System Capability

Produce, support, and enable cyberspace effects over the entire range of cyberspace operations (i.e., Defense, Exploitation, Operations, and Cyberspace Operational Risk Assessments).

### Warfighter Benefits

- Provide SA of AFIN
- C2 of 24 AF forces to produce, support or enable cyberspace effects
- Create cyber warfighting options for the Combatant Commander (CCDR)
- Enable air, space, land and maritime operations
- Plan, direct, coordinate, and control AF cyber forces and operations

### Specifics

- **Requirements Basis:**
  - C3MS CPD – Approved Oct 14
- **Major Customers:** 24AF, Component-Numbered Air Forces (C-NAFs), AFSPC, and Air, and Space Operations Centers (AOCs)
- **Contractors:** DTSI (IT support to 624OC)
- **External AF Interest:** STRATCOM, USCYBERCOM
Potential Industry Opportunity
C3MS SOAIF Sustainment

• **Description:**
  - Provide sustainment support for the C3MS Service Oriented Architecture Integration Framework (SOAIF)

• **Anticipated Schedule:**
  - RFP Release: 1QFY16
  - Contract Award: 3QFY16

• **Anticipated Contract:** NETCENTS II

• **Anticipated Procurement Approach:** LPTA, CPFF

• **Customer:** 24AF, 624OC

• **POC:**
  - PM: Mr. Richard Tilton, AFLCMC/HNCYS, (210) 925-2344
  - PCO: Mr. Jay Watkins, AFLCMC/HNCYK, (210) 925-3554
Potential Industry Opportunity
C3MS Mission Applications Support

• **Description:**
  • Provide sustainment support to specialized C3MS mission applications, specifically AFNetOps Compliance Tracker and AFCYBER Portal

• **Anticipated Schedule:**
  • RFP Release: 3QFY16
  • Contract Award: 4QFY16

• **Anticipated Contract:** NETCENTS II

• **Anticipated Procurement Approach:** LPTA, CPFF

• **Customer:** 24AF, 624OC

• **POC:**
  • PM: Mr. Richard Sutter, AFLCMC/HNCYS, (210) 925-2145
  • PCO: Mr. Jay Watkins, AFLCMC/HNCYK, (210) 925-3554
**Cyber Vulnerability Assessment/Hunter (CVA/H)**

**AFLCMC… Providing the Warfighter’s Edge**

**Warfighter Benefits**

- Scans and validates all known network/system configurations for a given mission against directed baseline configurations
- Provides in-depth assessment of information system assets such as computers, infrastructure, applications, data and cyber operations
- Supports operations to find, fix, finish, exploit, analyze and disseminate (F3EAD) the APT

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<thead>
<tr>
<th><strong>Description</strong></th>
<th><strong>Specifics</strong></th>
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| The Cyberspace Vulnerability Assessment/Hunter (CVA/H) provides a precision capability to identify, characterize, and mitigate cyberspace threats impacting critical operational capabilities within Air Force and DoD Networks. | **Requirements Basis:**
| | • HQ USAF, Program Action Directive 13-02, Implementation of Cyber Mission Forces
| | • Approved 12 August 2014
| | • CVA/H Capability Production Document (CPD)
| | • Approved 18 Jun 2013
| **System Capability** | **Major Customers:** Air Force Active Duty and Air National Guard CPTs
| Advanced calculated defensive missions or rapid response (i.e. Quick Response Forces (QRF)) engaging the Advanced Persistent Threat (APT) operating within the AF/DoD network via a blended approach to agility, precision employment, tactics, techniques and procedures (TTP). | **Contractors:** N/A
| | **External AF Interest:** STRATCOM, USCYBERCOM, National Guard Bureau

**Image Description:**

- A control room with multiple monitors and personnel working, indicating a focus on cybersecurity and defense operations.
Potential Industry Opportunity
CVA/H

- **Description:**
  - Provide onsite maintenance & logistics support for all Air Force Active Duty and Air National Guard (ANG) Cyber Protection Teams at multiple sites

- **Anticipated Schedule:**
  - Draft RFP: 3QFY15
  - RFP Release: 3QFY15
  - Contract Award: 4QFY15

- **Anticipated Contract:** TBD

- **Anticipated Procurement Approach:** Best Value, CPIF

- **Customer:** AF – AFSPC/24AF, ANG

- **POC:**
  - PM: Mr. Mike McKenna, AFLCMC/HNCYD, (210) 395-9606
  - PCO: Mr. Isaac Jones, AFLCMC/HNCK, (210) 925-6737
### Flexible Information Assurance Acquisition Tool (FIA2T)

**Indefinite Delivery/Indefinite Quantity (ID/IQ) Contract**

**AFLCMC… Providing the Warfighter’s Edge**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifics</th>
</tr>
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</table>
| • FIA2T focuses on the full range of AFLCMC/HNC requirements | **Anticipated Contract Strategy:**
| • Develop and support cryptographic and IA products and associated support equipment | • ~ $825M contract ceiling
| • FIA2T’s flexible delivery/task order process reduces time to meet customer requirements | • Full & Open Competition (FAR Part 15)
| • Improves operations efficiency and reduces reliance on external contracts | **Delivery/Task Orders:**

**Warfighter Benefits**

Provides cryptographic and Information Assurance (IA) technologies, product development and support through all phases of the acquisition lifecycle.

**Crypto on Demand**

**SMCC Operational View**

Source: CCTD, 31Jul 12

**Crypto on Demand**

*Full & Open Competition (FAR Part 15)*

**Delivery/Task Orders:**

- Determines requirement(s) and schedule
- FFP, FPIF, CPFF, CPIF, CR available
- Streamlined award process
Flexible Information Assurance Acquisition Tool (FIA2T) Indefinite Delivery/Indefinite Quantity (ID/IQ) Contract

**Description:**
- FIA2T focuses on the full range of AFLCMC/HNC requirements
- Develop and support cryptographic and IA products and associated support equipment
- FIA2T’s flexible delivery/task order process reduces time to meet customer requirements
- Improves operations efficiency and reduces reliance on external contracts

**Anticipated Schedule:**
- Draft RFP Release (incremental, starting): 2QFY15
- RFP Release: 3QFY15
- Contract Award: 3QFY16

**Anticipated Procurement Approach:**
- Period of Performance: 11 years
- FFP, FPIF, CPIF, CR, T&M
- Competed Task Orders

**Customer:** DoD and AF Crypto Programs

**POC’s:**
- PM: William McMenamin, AFLCMC/HNCSA, (210) 925-4065
- PCO: Ralph Urias, AFLCMC/HNCK, (210) 925-1072

*Integrity - Service - Excellence*
AF Key Management Infrastructure (KMI) Last Mile

**Warfighter Benefits**
- Takes airmen out of harm’s way – over-the-air/network key delivery reduces physical trips in the AOR – no missions just to deliver crypto keys
- Keys available anytime, anywhere – net centric, real-time key status, need, and delivery lets COMSEC account managers and users get keys during missions – no need to return to base
- Electronic management and tracking of keys – the system logs and tracks keys, so no paper reporting needed – allows COMSEC accounts to quickly identify and recover from compromise

**Description**
AF KMI Last Mile provides integrated, enterprise-level cryptographic key, distribution, management, and load capabilities providing millions of crypto keys to 250,000+ devices supporting all Air Force platforms and missions. Fully KMI compliant, next-generation of load systems and devices

**System Capabilities**
- Distribution – Secure ID and supply of keys
- Management – Real-time electronic tracking and audit of keys
- Load – Secure physical and network key delivery

**Specifics**
- **Requirements Basis:**
  - DoD KMI CI-2 CDD (25 Oct 05)
  - DoD CM ICD (25 Mar 11)
  - MDD Approval (5 Apr 13)
  - AF KMI Last Mile CDD (Oct 14)
- **Major Customers:** All MAJCOMs
- **Contractors:** (EMD) TBD
- **External AF Interest:** COCOMs, Services, NSA, Civil Agencies, International Partners
Potential Industry Opportunity

AF KMI Last Mile

AFLCMC… Providing the Warfighter’s Edge

• **Description:**
  - Capability Development Document (CDD) directs integrated, Key Management Infrastructure compliant key load devices
    - Key load devices with reduced size and weight and increased power
    - Automation of COMSEC management and audit functionalities
  - Currently in technology maturation/risk reduction
    - Active in market research, technology demonstrations, and prototyping

• **Anticipated Schedule:**
  - RFP Release: 3QFY15
  - Milestone B Decision: 3QFY15
  - Engineering and Manufacturing Development Contract Award: 4QFY15

• **Anticipated Contract:** GSA Schedule 871-3

• **Anticipated Procurement Approach:** Best Value, FFP

• **Customer:** AF - All MAJCOMs; External – Services, Agencies

• **POC:**
  - PM: Javier Flores, AFLCMC/HNCD, (210) 925-0763
  - PCO: Lavonne Lee, AFLCMC/HNCK, (210) 925-0743
###导弹电子加密设备（MEED）修改

####描述

MEED是一种离线的密码设备，用于导弹入口控制系统（MECS）中，用于加密/解密人员身份认证和锁定组合传输，以确保只有授权人员才能进入ICBM发射控制中心（LCC）和发射设施（LFs）。

####系统能力

- 通过NSA/12备忘录（AFGSC/A7S）替换KL-85/86导弹电子加密设备，2013年4月19日
- AF表单1067，2013年8月13日
- 主要客户：AFGSC（90th MW, 91st MW, 341st MW）
- 承包商：待定（预EMD）
- 外部AF兴趣：NSA

####具体要求

- **交付物**：符合应用安全要求的改进型MEED设备
- **战将益处**：提供现代的加固和防篡改装置，用于通过电话和移动陆地无线电等不安全的手段进行加密身份认证和锁定组合传输。

####战将益处

- **交付物**：改进型MEED设备，符合应用安全要求
- **战将益处**：提供现代化的加固和防篡改装置，用于通过电话和移动陆地无线电等不安全的手段进行加密身份认证和锁定组合传输。

---

**要求基础：**

- NSA/I2备忘录（AFGSC/A7S），替换KL-85/86导弹电子加密设备，2013年4月19日
- AF表单1067，2013年8月13日

**主要客户**：AFGSC（90th MW, 91st MW, 341st MW）

**承包商**：待定（预EMD）

**外部AF兴趣**：NSA
Potential Industry Opportunity
MEED Modification

**Description:**
- Provide off-line cipher system used for encryption and decryption of personal authentication and circuit combination data
- Ruggedized modification designed to protect up to SECRET data

**Anticipated Schedule:**
- RFP Release: 2QFY15
- Milestone B Decision: 3QFY15
- Engineering and Manufacturing Development Contract Award: 4QFY15

**Anticipated Contract:** GSA Schedule 70

**Anticipated Procurement Approach:** Best Value, FFP

**Customer:** Air Force Global Strike Command

**POC:**
- PM: Kevin McFarland, AFLCMC/HNCCA, (210) 925-3118
- PCO: Sharon Rowe, AFLCMC/HNCK, (210) 925-2855
Space Modular Common Cryptography (SMCC)

**Description**
- Develop and field rapidly deployable space crypto family of solutions
- Address known and emerging capability gaps and NSA algorithm replacements
- Employ multi-function design tenets
- Radiation hardened variant(s) as required
- Secure IA uplink, downlink, and crosslink
- National Security Agency (NSA) certified to TSAB

**Warfighter Benefits**
- COMSEC and TRANSEC to range of space platforms (SmallSat - LargeSat)
- Protected serial, packetized, routable data
- Scalable, configurable, standards-based interfaces
- More responsive to satellite integration schedules
- Optimize Size, Weight and Power (SWaP)
- Releasable/Non-Releasable algorithms
- Reduce lifecycle cost

**Specifics**

**Requirements Basis:**
- CM ICD, 25 Mar 11; JSCL ICD, 28 Sep 10
- TT&C CDD, 21 Jul 05; SMD CDD, 21 Jun 07
- GPS III CDD, 16 Nov 10; SBIRS ORD, 15 Aug 96
- DoDI 8581.01, 8 Jun 10
- NSA/CSS Policy 3-9, 9 Oct 12
- CNSSP 12, 28 Nov 12 & CNSSP 19, 10 Jun 13
- AFROC Validated CDD: 4Q/FY14

**Customers:** SMC, USSTRATCOM, Army, Navy, MDA, Labs, Intel Community and Civil agencies
SMCC Architecture

Hosted Payloads

EnviSat - Earth Science LargeSat

Current Architecture

Future Architecture

Integrity - Service - Excellence
Potential Industry Opportunity
SMCC

• **Description:**
  - Deliver enterprise-wide space crypto family of solutions
  - Employ multi-function design tenets
  - Utilize a modular, open systems architecture
  - Reduce logistics footprint and lifecycle costs

• **Anticipated Schedule:**
  - Market Research: 3QFY15
  - Milestone B Decision: 4QFY15
  - RFP Release: 2QFY16
  - Engineering and Manufacturing Development Contract Award: 1QFY17

• **Anticipated Procurement Approach:** Best Value, CPIF

• **Customer:** SMC, USSTRATCOM, MDA, Army, Navy, Air Force, Intel Community and Civil Agencies

• **POC’s:**
  - PM: William Harrison, Sr., AFLCMC/HNCSA, (210) 925-6530
  - PCO: Brandon Jernigan, AFLCMC/HNCK, (210) 925-5129
### Description

Supports implementation and sustainment of Public Key Infrastructure (PKI) and responsive cyber information assurance solutions for the Air Force.

### Specifics

- **Major Customers**: AF MAJCOMS, 24 AF, COCOMS, NSA
- **Contract**: GSA One Acquisition Solution for Integrated Services (OASIS) Small Business

### Warfighter Benefits

- Services contract to provide innovative solutions to address cyber needs for the Air Force and COCOMs
- PKI is a DoD-wide program that provides the critical underpinning to DoD’s Information Assurance (IA) capabilities

### Business Opportunity

Services contract to provide Information Assurance Support Services to implement and sustain the DoD Public Key Infrastructure (PKI) for the USAF and for the development of responsive cyber acquisition solutions.
Potential Industry Opportunity
AF PKI / IA Support Services

- **Description:** Information assurance support services to implement and sustain the PKI for the Air Force and develop solutions to meet IA cyber needs
  - PKI Registration Authority / Verification Officer
  - PKI Help Desk
  - Public Key (PK) / Cyber Info Assurance (IA) – Enabling
  - Operational Support

- **Anticipated Schedule:**
  - RFP Release: 2QFY15
  - Contract Award: 4QFY15

- **Anticipated Contract:** GSA OASIS Small Business

- **Anticipated Procurement Approach:** CPFF, CR, Best Value

- **Customer:** All AF MAJCOMS, 24 AF, COCOMS, NSA

- **POC:**
  - PM: Ms. Nancy Pham, AFLCMC/HNCYP, (210) 925-0034
  - PCO: Mr. Don Chatham, AFLCMC/HNCKC, (210) 925-0034
### Description
Enable communications between 5th and 4th gen assets

### System Capability
- Provides 5th Gen fighter tactical picture currently inaccessible to 4th Gen aircraft for increased SA
  - IFDL to Link 16 (F-15C relay from F-22)
  - MADL to Link 16 (F-15C relay from F-35)

### Warfighter Benefits
- Exploits the strengths of both 5th Gen and 4th Gen forces and facilitates a synergistic combat capability for sustained air dominance
- Shortens Kill Chain through digital machine-to-machine cooperative engagement
- Reduces fratricide, increases probability of kills, increases situational awareness and allows efficient weapons expenditures
- Enables sharing of 5th Gen combat identification capability to gain tactical advantage

### Specifics
- **Requirements Basis:** JALN ICD (Oct 09), 5th to 4th CDD (AFROC validated May 14)
- **Major Customers:** PACOM, ACC (Lead Command)
- **Milestone Decision Authority:** PEO C3I&N; coordination with PEO Fighter/Bomber
- **Contractor:** TBD
- **Quantities:** Multiple F-15C aircraft modified with Gateway
- **External AF Interest:** JROC Interest
- **External Program Dependencies:** F-15, F-22, F-35
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Potential Industry Opportunity
Gateway & Datalink Capability

- **Description:** Leverage existing technologies to develop a communications connectivity capability to digitally exchange data between 5th Generation Fighters (F-22 and F-35) with 4th Generation Fighters (e.g., F-15, etc.) and other Link 16 enabled platforms (e.g., E-3)

- **Anticipated Schedule:**
  - Draft RFP: ~ Mar 15
  - RFP: ~ 30 Jun 15
  - Contract Award: Q3FY16 [EMD/Production]

- **Expected Program Development/Production Value:** TBD (>$100M)

- **Customer:** ACC (Lead Command) and COCOMs

- **POC:**
  - PM: Mr. David Desforges, AFLCMC/HNAG, (781) 225-4123
  - PCO: Capt Jordan Siefkes, AFLCMC/HNAK, (781) 225-4090

*Integrity - Service - Excellence*
Common Data Link (CDL)

**Description**

- 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)

**System Capability**

- High capacity, encrypted, interoperable data links for ground/aerial ISR platforms
- Waveform specifications supporting Internet Protocol (IP) enabled data transport via point-to-point and point-to-multi-point links
- “Communications-on-the-move” and dynamically forming MANET-type air and ground CDL networks

**Specifics**

- **Requirements Basis:** Congressionally Mandated Effort (since 2006); ASD(NII) policy, CDL mandate update (7 Aug 09), DoDI S-4660.04, Encryption of Imagery Transmitted by Airborne Systems and Unmanned Aircraft Control Communications (27 Jul 11); A NATO interoperability standard (STANAG 7085)
- **Executive Agent:** SAF/AQ
- **Contractor:** TBD
- **External AF Interest:** OUSD(AT&L), OUSD(I), Joint Staff, DoD CIO, All Services, NATO, COCOMs

**Warfighter Benefits**

- Critical component of the nation’s ISR infrastructure, delivering data at multiple classification levels to the right place at the right time
- Brings ISR data to the tactical edge (e.g. SIGINT, GEOINT, MASINT, and Full-Motion Video (FMV))
- Ability to quickly transmit enormous amounts of information securely & on multiple frequency bands
  - Data agnostic
- Standardized - encourages interoperability
Common Data Link (CDL)
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- Executive Agent: SAF/AQI
- Contractor: TBD
- External AF Interest: OUSD(AT&L), OUSD(I), Joint Staff, DoD CIO, All Services, NATO, COCOMs
Potential Industry Opportunity
Multiple CDL Compliance Test Set

- **Description:** Development of two test sets for Joint Interoperability Test Command (JITC) for independent verification of CDL terminal’s compliance with CDL waveform specifications beyond those defined in Standard CDL. The test set will be:
  - Capable of executing waveform and networking tests and perform automated testing and scoring of a CDL terminal for compliance to waveform specifications.
  - Used to ensure CDL systems are capable of providing seamless real-time connectivity / interoperability between multiple ISR collection platforms.

- **Anticipated Schedule:**
  - RFP: 3QFY15
  - Contract Award: 4QFY15

- **Anticipated Contract Type:** Best Value, Firm Fixed Price

- **Estimated Project Value:** < $15M [Potential Small Business Opportunity]

- **Customer:** JITC

- **POC:**
  - PM: Ms. Cali Rodriguez, AFLCMC/HNAG, (781) 225-4034
  - PCO: Ms. Edna Alonis, AFLCMC/HNAK, (781) 225-4070
Potential Industry Opportunity
CDL IDIQ

• **Description:** Develop H/W and S/W engineering development models/prototypes, systems engineering products, technical reports, data rights, and PM and financial milestone event and reporting.

• **Anticipated Schedule:**
  - Sources sought: 2QFY15
  - RFP Release: 3QFY16
  - Award contract: 2QFY17

  Note: HNA is considering a multiple award IDIQ.

• **Anticipated Contract Type:** TBD

• **Estimated Project Value:** < $200M [Potential Small Business Opportunity]

• **Customer:** Army, Navy, Marines, Air Force, Principle Staff Assistant, JITC, Joint Spectrum Center

• **POC:**
  - PM: Ms. Cali Rodriguez, AFLCMC/HNAG, (781) 225-4034
  - PCO: Ms. Edna Alonis, AFLCMC/HNAK, (781) 225-4070
### Description / Warfighter Benefits

- ANGI provides a standardized, consolidated network entry point to extend AF air and ground user capability
- Enables 24/7 operations
- Saves an estimated $1.7M/year in recurring operations and maintenance costs
- Saves the NRE expense of building stovepipe solutions for future systems
- Future increments to include backup host site facilities for greater mission assurance and operational continuity
- Immediate focus on initial capability; long-term strategy in development

### System Capability

- Network transport to DoDIN and AFNet core services
- Network management to provide mission assurance to monitor, control and provide SA
- Access to enterprise and AFNet services to disconnected, intermittent and low-bandwidth users
- Mission compatibility for COMSATCOM users utilizing terrestrial networks

### Specifics

- Requirements basis:
  - CENTCOM UON Nov 07
  - Enduring Capability Nov 12
  - AFSPC Requirements Description Document Apr 14
- Initial customers: JSTARS, AWACS, KC-46, and Combat Flyaway Kit (CFK)
Airborne Network Global Information Grid Interface (ANGI)

ANGI Supports Information Sharing
- Battlespace Awareness
- Intelligence
- Surveillance
- Reconnaissance
- Command and Control

Airborne Network GIG Interface
Transport – Management – Services – Standards

Linking Warfighters Globally

Net Command and Control
Net Situational Awareness

Commercial SATCOM
Airborne Network Global Information Grid Interface (ANGI)

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- Initial customers: JSTARS, AWACS, KC-46, and Combat Flyaway Kit (CFK)
Potential Industry Opportunity

ANGI

Description: Two commercial off the shelf IT equipment purchases supporting the ANGI program

Anticipated Schedule: Initial delivery order placed/received at the end of 1st Qtr FY15 and a second delivery order placed/received 4th Qtr FY15

Anticipated Contract: NETCENTS-2 (Products) will be competed among all 25 contract holders; some of which are small businesses

Anticipated Procurement Approach: Lowest price technically acceptable

Customer: AFSPC, ACC, AMC

POC:
- PM: 1st Lt Spencer Edwards, AFLCMC/HNAA, (781) 225-4090
- PCO: Capt Jordan Siefkes, AFLCMC/HNAK, (781) 225-4090
# Global Aircrew Strategic Network Terminal (Global ASNT)

**AFLCMC… Providing the Warfighter’s Edge**

### Description

Nuclear command & control system providing AF wing cmd posts, AF Nuclear Task Forces, Munitions Support Squadrons and mobile support teams with survivable ground-based communications to receive Emergency Action Messages (EAMs) and disseminate them to bomber, tanker & reconnaissance air crews.

### System Capability

- Survivable EAM reception via Advanced Extremely High Frequency (AEHF), Milstar & Very Low Frequency (VLF)
- EAM dissemination via pagers/klaxons, Ultra High Frequency (UHF), & High Frequency (HF)

### Specifics

- **Requirements**: CDD (Inc 1 rqmts) validated by AFROC 18 Apr 13; FCB 24 May 13; JROC Memo 29 Jul 13
- **Customers**: AFGSC, ACC, AMC, USAFE & USSTRATCOM
- **Contractors**: Inc 1 - Raytheon awarded 23 Dec 13
- **Quantities**: 90 systems (~ 45 Fixed / 45 Transportable)
- **Certifying Agencies**: NSA, DISA, DTRA, NTIA, JITC, JTEO
- **External Dependencies**: AEHF satellite constellation
- **Operational Test Org**: 605th TES
- **Increment 1 IOC CY2018; FOC CY2019**

### Warfighter Benefits

- **Survivable**
  - High-Altitude Electromagnetic Pulse (HEMP) hardened
  - Incremental (based on user priorities)
  - Increment 1: EHF (USSTRATCOM rqmt for FOC by CY19)
  - Increment 2: HF/UHF/Aircrew Alerting
  - Increment 3: LF/VLF

- **Strategic**
  - Replaces degraded legacy equipment and provides redundant strategic communication paths. Legacy Milstar terminal needs to be replaced with an AEHF terminal.
Global Aircrew Strategic Network Terminal (Global ASNT)

- **Description**
  - System Capability
  - Global Aircrew
  - Network Terminal (Global ASNT)
  - Strategic
  - Terminal (Global ASNT)

- **Specifics**
  - Global ASNT
  - Fixed WCPs & Transportable
  - Airfields: bomber, tanker, and recce
  - Mobile Support Teams
  - Alert Creeds
  - Klaxons
  - Pagers

- **System Components**
  - Milstar
  - AEHF
  - National Military Command Center
  - Airborne C2
  - Nuclear Execution Forces & Tankers

- **Global ASNT Increments**
  - Increment 1: EHF
  - Increment 2: HF/UHF/AAS
  - Increment 3: VLF/LF

**Integrity - Service - Excellence**
Global Aircrew Strategic Network Terminal (Global ASNT)

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- Increment 1 IOC CY2018; FOC CY2019
Potential Industry Opportunity
Global ASNT Inc 2

• **Description:** Inc 2 replaces legacy Ultra High Frequency (UHF) Line-of-Sight radios, pagers and klaxons (Aircrew Alerting System) and adds High Frequency (HF) capability. Inc 2 is required to interface with Inc 1 System Management & Power Distribution Subsystems.

• **Note:** Inc 1 awarded Dec 13

• **Estimated Schedule:**
  • Market Research & Early Gov’t System Engineering: FY16
  • Contract Award: FY18 [EMD acquisition phase]

• **Estimated Program Value:** > $50M; Inc 2 is New Start in FY16 PB

• **Customer:** AFGSC, ACC, AMC, USAFE & USSTRATCOM

• **POC:**
  – PM: Lt Col Kenneth Decker, AFLCMC/HNAN, (781) 271-2690
  – PCO: Mr. Andrew Geisel, AFLCMC/HNAK, (781) 271-2327
## AF Wideband Enterprise Terminals

<table>
<thead>
<tr>
<th>Location</th>
<th>Image</th>
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<tbody>
<tr>
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<td>Croughton</td>
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### Warfighter Benefits
- Satellite Communications Backbone for the DoD’s Information Network (DODIN)
- Global access to network services for deployed warfighter
- Supports numerous strategic missions to include: missile defense, space launch, and satellite control

### Description
- 90 Large ground satellite communications terminals located around the world, operated and maintained by Army, Navy and Air Force
- AF responsible for sustaining & modernizing 32 of these terminals through major modernization efforts

### System Capability
- Large bandwidth, anti-jam capable satellite communications in a variety of frequencies
- Compatible with Wideband Global SATCOM (WGS) and other communications satellites

### Specifics
- Major modernization equipment purchased through Army’s Modernization of Enterprise Terminals (MET) contract with Harris Corporation
- AFWET responsible for installing and integrating MET equipment at AF sites
- Installation activities include: MET antenna installation, legacy radome de-installation and reinstallation, new radome procurement and installation
Potential Industry Opportunity
AFWET Antenna/Radome IDIQ

- **Description:**
  - Radome Procurement
  - Radome and Antenna De-installation/Installation
  - Incidental Site Preparation Efforts

- **Anticipated Schedule:**
  - Initial Award (RFP: 3Q2015, CA: 4Q2015)
  - Individual Delivery Orders (throughout 5 year Period of Performance)

- **Anticipated Contract:** Multiple Award, Indefinite Delivery, Indefinite Quantity (IDIQ), 8(m)- Woman Owned Small Business Set Aside

- **Anticipated procurement approach:** Best Value, Firm Fixed Price

- **Customer:** AFWET Program

- **POC:**
  - PM: Mr. Shawn M. Patterson, AFLCMC/HNAS, (781) 271-2064
  - PCO: Ms. Valeta A. Miller, AFLCMC/HNAK, (781) 271-5067
Special Programs Division
(AFLCMC/HNJ)

I n t e g r i t y - S e r v i c e - E x c e l l e n c e
**Material Solutions & Analysis (MS&A)**

**AFLCMC… Providing the Warfighter’s Edge**

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### Warfighter Benefits

- Centralized storefront for information technologies providing warfighters with advanced capability at all levels of C3I&N/BM warfare operations
- Pro-active and agile information technology ID, analysis and development to meet the rapid pace of change needed to field solutions fast enough to meet the evolving threat environment

### Description

MSA matches C3I&N & Battle Management (BM) operational warfighter needs with existing and near-future technologies

### Specifics

- **Requirements Basis:** AF Form 1067 & Cyber Needs Forms
- **Major Customers:** SAF, ACC, AFOSI, AFSPACE, TENCAP, AFRL, HNC, HNI, HB
- **Contractor:** TBD, Multiple to include small business
- **External AF Interest:** DoD, USCYBERCOM, USN, USA, SOCOM

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**Potential System Capability**

- Mitigating cyber insider threat from networks
- Preserve data integrity and confidentiality
- Investigation of network traffic & devices
- Automated mission mapping tools
- Redundant and assured communication paths
- Secure multi-level processing
- Innovative communication technologies

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## 2015 Insider Threat Technology Technology Workshop

### AFLCMC… Providing the Warfighter’s Edge

<table>
<thead>
<tr>
<th>Warfighter Benefits</th>
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<tr>
<td>• Leverage solutions across the DOD</td>
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<td>• Eliminate duplicative spending</td>
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<tr>
<td>• Continuously identify and leverage new COTS and GOTS solutions</td>
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### Description

DOD working group designed to identify, communicate, and leverage technological solutions for the cyber insider threat.

### Topics Covered

- Insider threat Universe – HNJ
- Cyber Insider Threat Baseline – MIT LL
- Secure View – AFRL
- Cyber survivability & restoral – AFRL
- Real world requirements – HNJ
- Insider Threat analysis efforts – Carnegie Mellon
- Active Authentication – AFRL
- Data at rest encryption – HNJ

### Specifics

- 1\(^{st}\) semi annual workshop hosted at Hanscom AFB on 13/14 Jan 2015
- 30+ orgs
- 100+ DOD acquisition, cyber, and security professionals in attendance
- **Will include a Cyber Insider Threat Industry Day summer 2015**
Potential New Programs: MS&A Industry Opportunities

- **MS&A areas of interest:**
  - Cyber insider threat mitigation for *Unclassified* to *SAP* networks
    - Behavioral monitoring
    - Machine learning
    - Monitoring & reporting solutions
    - Data provenance
    - Agile defense
    - *Trustworthy* processing of data from *untrustworthy* systems
    - Data at Rest encryption solutions
    - Data in Use encryption solutions
- **Anticipated Schedule:** On-Going
- **Anticipated Procurement Approach:** Multiple IDIQ or multi-source IDIQ
- **Customer:** Multiple
- **POC’s:** Lt Col Ricky Howard, AFLCMC/HNJJ, 781-225-0867  
  Capt Thomas Kellerman AFLCMC/HNJK 781-225-1022
## Follow-Up

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Major General Craig Olson</td>
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QUESTIONS?