



Major General Anthony W. Genatempo PEO, Cyber & Networks

AFCEA New Horizons

11 March 2025

Cyber & Networks Directorate



AERIAL NETWORKS DIVISION

LINK-16 ALASKA (LAK) POCKET J **HNA** SOFTWARE PROGRAMMABLE OPEN MISSION SYSTEMS COMPLIANT (SPOC) RADIO

BATTLEFIELD AIRBORNE COMMUNICATIONS NODE (BACN) AIR FORCE TACTICAL TERMINAL (AFTT) FOREIGN MILITARY SALES

COMMON TACTICAL EDGENETWORK (CTEN) AIRBORNE NETWORK GLOBAL INFORMATION GRID INTERFACE (ANGI) SECOND GENERATION ANTI-JAM UHF RELAY FOR NATO (SATURN)

CRYPTO AND CYBER DIVISION

JOINT CYBER C2 **JCC2** **HNC** SOFTWARE FACTORIES

DEFENSIVE CYBER OPS CRYPTO CRYPTO MOD PLATFORM ONE

UNIFIED PLATFORM INTEL & FORCE PROTECTION FOREIGN MILITARY SALES

ENTERPRISE IT AND CYBER INFRASTRUCTURE DIVISION

CLOUD ONE FAST SECURE STREAMLINED **HNI** AF Portal **AFECMO**

EMERGENCY MASS NOTIFICATION SYSTEM **AFID** **PKI** **ICAM** **DEPaaS**

DAF 365 THEATER DEPLOYABLE COMMS Air Force Network **SABRE**

ENTERPRISE IT AS A SERVICE **ElTaaS**

SPECIAL PROGRAMS DIVISION

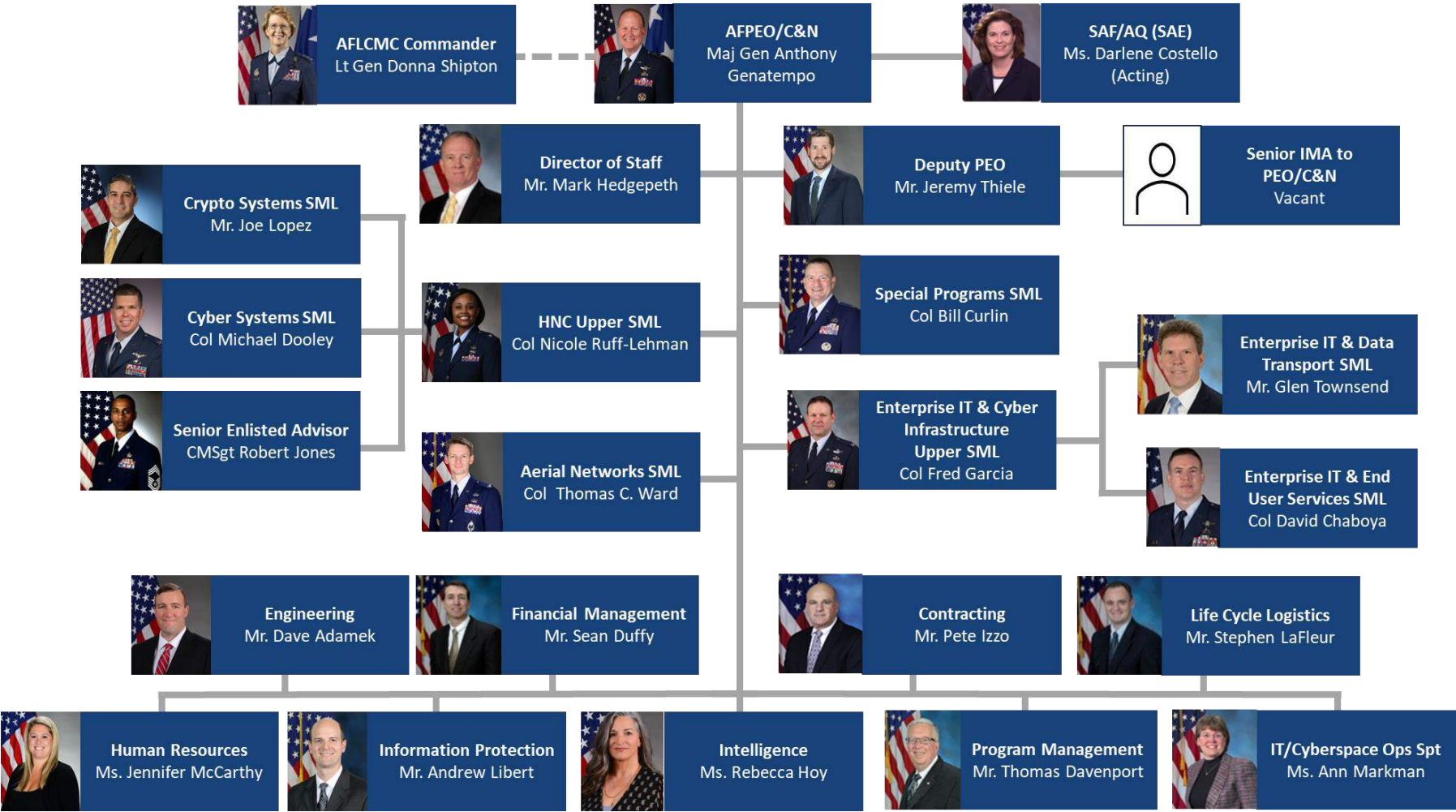
HNJ ELECTRONIC WARFARE SYSTEMS CYBERSECURITY

SECURITY KILL CHAIN INTEGRATION ADVANCED TECHNOLOGY

Cyber & Networks – Duty Locations



Organizational Chart



Lessons Learned...



- **Speed and Agility:** Just as the swift response of the militia disrupted British plans at Lexington, the Air Force's cyber teams must react quickly to cyber threats to mitigate damage and maintain control
- **Information as a Weapon:** The spread of information about the battles of Lexington and Concord had a powerful effect on public opinion. Similarly, the Air Force recognizes the importance of winning the information war in cyberspace, using its capabilities to defend networks, counter propaganda, and ensure accurate information flows
- **Decentralized Networks:** The colonial militia's decentralized structure allowed for a flexible response. Likewise, the Air Force's cyber defense benefits from distributed teams and capabilities, making it more resilient to attacks
- **Physical vs. Digital:** The most significant difference is the nature of the battlefield. Lexington was a physical clash, while cyberwarfare takes place in the digital realm. This difference dictates the tools, tactics, and consequences of engagement

Then and Now...



Feature	Lexington & Concord	Modern Air Force Cyber & Networks
Element of Surprise	British attempted a surprise attack to seize colonial weapons.	Cyberattacks often exploit vulnerabilities to gain access and control before defenders are aware, achieving a similar element of surprise.
Early Warning System	Paul Revere's ride and signal lanterns served as a rudimentary warning system.	Advanced intrusion detection systems, threat intelligence feeds, and global sensor networks act as the modern equivalent, providing early warnings.
Communication Networks	Messengers on horseback relayed information about British troop movements.	Secure military networks, satellite communications, and encrypted messaging apps allow for rapid information sharing and coordination across vast distances.
Decentralized Response	Colonial militias, operating independently, converged on the British, disrupting plans.	Cyber defense teams, often geographically dispersed, can work collaboratively and autonomously to counter attacks, mirroring the militia's agility.
Information Warfare	News of the battle spread rapidly, galvanizing support for the revolution.	Controlling the narrative in cyberspace is crucial. The Air Force may use cyber means to counter disinformation or shape perceptions during a conflict.

Roadmap to Success...



A Blueprint for Change: Cyber & Networks Directorate is making

REVOLUTIONARY

changes to address the challenges and opportunities ahead

The Future...



TIMELINE AIR FORCE CYBER AND NETWORK CAPABILITIES



THE LAST 250 /AND

NEXT 250 YEARS

Lessons Learned



- **Signal the Changes:** “One if by land, two if by sea” signal, includes early indicators and signals for shifts in the technological landscape, ensuring that our teams are always prepared and equipped to pivot when necessary
- **Mobilize the Teams:** Like the Minutemen who were ready to act at a moment’s notice, our teams are aligned and ready to implement ---whether it’s launching new infrastructure or deploying cutting-edge software, each step is mapped out for swift and strategic execution
- **Stay Ahead of the Competition:** Just as Revere’s ride gave the Patriots an edge in preparing for the British forces, this ensures we stay ahead of industry trends and threats, positioning us to act swiftly in response to cybersecurity risks, market changes, and emerging technologies





High Level Issues to consider



Intelligence vs. Tool



Morals & Ethics



"Solving World Hunger" vs. "Rubber Meets the Road"



Workforce Replacement vs. Augmentation



Perceptions vs. Realities



AI Integration – Key Tenets



Data Privacy Concerns:

AI systems require vast amounts of data, raising issues about the privacy and security of sensitive financial information.



Bias in Algorithms:

AI models can inherit biases from their training data, leading to unfair treatment of certain groups, which can affect lending practices and customer service.



Dependency Risks:

Over-reliance on AI can lead to skills degradation among personnel and reduce the ability to make critical decisions in scenarios where AI may fail.



Operational Security Threats:

Using AI tools may expose sensitive data or processes to adversaries if not properly secured, leading to potential exploitation.

Aerial Networks Division

Mission Scope Overview



**Deliver, Sustain, and
Support Combat-
Effective, Multi-
Domain
Communication
Capabilities**

Deliver

Provide warfighters with cost-effective solutions that meet current and future requirements

Sustain

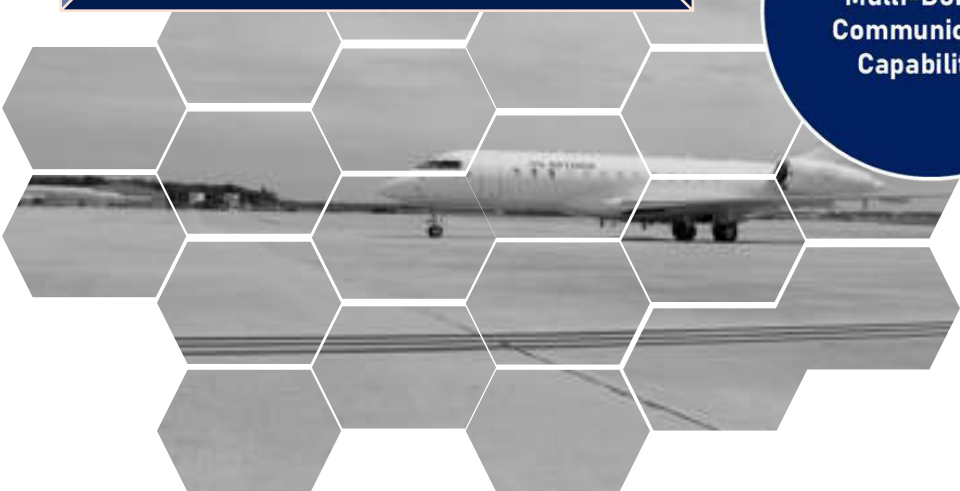
Ensure the provided solution can be sustained throughout its lifecycle

Support

Establish improvements over time and provide contractor logistics or depot support

**Combat-Effective,
Multi-Domain
Communication
Capabilities**

Radios, waveforms, processors, apertures, etc. that provide warfighters with a technological edge; enabling them to enter hostile areas with assured communications and low probability of intercept/detection



Aerial Networks Division Program Highlights



Scheduled to Sunset

- HAVE QUICK II
- LINK 11
- Joint Tactical Information Distribution System (JTIDS)
- Multifunctional Information Distribution System Low Volume Terminal (MIDS LVT)
- Situational Awareness Data Link

Current Focus Areas

- Second Gen AJ Tactical UHF Radio for NATO (SATURN)
- LINK 22
- Multifunctional Information Distribution System Joint Tactical Radio System Block Upgrade 3 (MIDS JTRS BU3)
- Hybrid Satellite Communications

Future Priorities

- Multifunction Processors (software defined, ability to transmit and receive on multiple waveforms)
- Advanced Apertures/Multifunction Apertures (small, low cost, low footprint)
- Advanced Waveforms (for Omni -, Beyond -, and Direct - Line of Sight)

Cryptologic and Cyber Systems Division

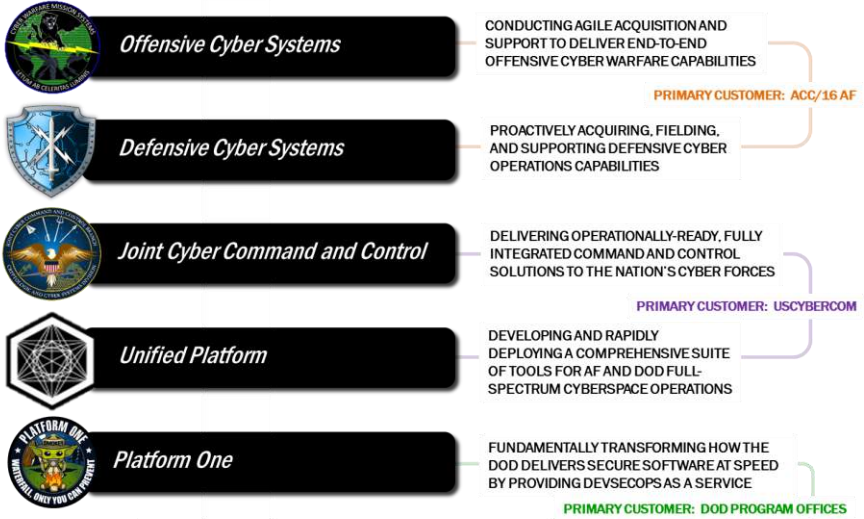
Mission Scope Overview



Crypto Systems Group



Cyber Systems Group - Mission Areas



Enterprise IT & Cyber Infrastructure Program Highlights



Concluded the first Services Delivery Assessment

- ▶ User feedback gathered across DAF will inform and improve future implementations across Wave One

Successfully Deployed Enterprise IT Service Management (EITSM 3.0)

- ▶ Sunset Remedy on 31 Dec 24, and Enterprise IT Service Management (EITSM 3.0) is fully deployed, including for Field Service ordering. This is a foundational component of the enterprise-wide EITaaS transformation, enabling all other Wave One Services to succeed.

Continued roll-out of Enterprise Service Desk (ESD)

- ▶ Cut over Air Force Reserve Command (AFRC), U.S. Air Forces in Europe (USAFE), and Pacific Air Forces (PACAF) bases



Expanded Horizons with Google Cloud

- ▶ Full access to cloud services sets a new standard for innovation and data security
- ▶ Solidifies Cloud One as a leader in leveraging cutting-edge tech to enhance mission readiness and scalability

Always-On Support for Mission Success

- ▶ Established a 24/7 tier 1 and tier 2b help desk
- ▶ Supports all 4 major CSPs and impact levels 2 through 6

First DOD-Approved Cloud Cross Domain Solution

- ▶ Certifications from DSAWG, CDTAB, NSA
- ▶ Reduces code promotion timelines and increases cybersecurity

Driving Cost Efficiency

- ▶ Balance cost-effectiveness with cutting-edge cloud solutions

\$1.6B

Cloud One Next Reseller Contract

\$330M

Estimated cost savings for DAF



Awarded IDIQ

- ▶ Awarded the Base Infrastructure Modernization IDIQ to vendors
- ▶ BIM is targeting Q2/Q3 FY25 for the first Task Order Awards

25

Vendors awarded

SAP Enterprise IT Portfolio

Program Highlights:



- Enterprise SAP IT supports 40K+ DAF users worldwide
 - Desktops, Networks, Voice & Video, Email & File Share
- Special Access Program (SAP) Enterprise IT as a Service (SEITaaS)
 - Modern secure commercial cloud environments
 - Capabilities & services meeting high-end mission needs
 - Enables multi-level security and cross-domain collaboration
 - Rapidly delivers commercial “as a Service” capabilities
- Key Features
 - High bandwidth global transport commercial cloud
 - 24/7/365 active cybersecurity monitoring
 - Enterprise Network Operations Center & Help Desk
 - Modern services and applications
- SEITaaS prototype efforts underway ...

HN Partnerships



FFRDC & State & Municipal

Department of Defense

Academic Institutions

Accelerators, Industry Associations & Non-Profit

FFRDC & State & Municipal Government

Department of Defense

Accelerators, Industry Associations & Non-Profit

University Affiliated Research Centers

Interagency



Business Opportunities

Crypto Systems Group

Business Opportunities



- **BlackArrow Edge-Cloud Software Development:**

- Develop Software for Controller Workstation
- Anticipated Schedule: Contract Award 4QFY25 (Projected)
- Anticipated Scope: Architecture & Integration Support, Application Programming Interface Management
- Anticipated Procurement Approach: Other Transaction Authority (OTA)
- POC: Materiel Leader: Ms. Veronica Quinonez, veronica.quinonez.1@us.af.mil

- **Cryptographic Enterprise Management Software Development:**

- Rapidly develop and deliver software in support of enterprise management
- Anticipated Schedule: 4QFY25 Contract Award (Projected)
- Anticipated Scope: DevSecOps SW development, systems architecture & engineering, data integration
- Anticipated Procurement Approach: Task Order on existing AFLCMC/HNC Cyber Indefinite Delivery/Indefinite Quantity (IDIQ)
- POC: Materiel Leader: Ms. Veronica Quinonez, veronica.quinonez.1@us.af.mil

- **Embedded Terminal Crypto:**

- Cryptographic Modernization (CM2) of Variable Performance Chipset (VPC) and KGV-136
- Anticipated Schedule: NLT FY27 (could be sooner if funding source identified)
- Anticipated Scope: Development of Form, Fit, and Function+ of current VPC and KGV-136 products to meet CM2 requirements and future AEHF/ESS/EPSS-R Terminal needs
- Anticipated Procurement Approach: TBD
- POC: Mr. H. Nathan Tiemann, harold.tiemann@us.af.mil

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Business Opportunities



Offensive Cyber Systems

- **Infrastructure as a Service:**
 - Provide system integration across multiple disparate cyber systems, world-wide network access, deployable kits, and other required infrastructure services as needed
 - **Anticipated Schedule:** Anticipate contract award 4QFY25
 - **Anticipated Procurement Approach:** Task order on High Ground Indefinite Delivery, Indefinite Quantity (IDIQ)
- **Joint Cyber Weapons Development:**
 - **Multiple contract efforts**
 - Rapid capability development contract to support Joint Cyber Weapons tool and infrastructure development
 - **Anticipated Schedule:** Anticipate contract award 4QFY25
 - **Anticipated Procurement Approach:** Task Order on Responsive Cyber IDIQ
 - Cyber Weapons Development IDIQ
 - **Anticipated Schedule:** TBD
 - **Anticipated Procurement Approach:** Full and Open
- **Frequent contract sources**
 - Internal/External IDIQs, GSA, Small Business Innovative Research (SBIR), and 8(a)

POC: Materiel Leader: Lt Col Daniel Rios, daniel.rios.5@us.af.mil

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Business Opportunities, cont.



Defensive Cyber Systems

- **Artificial Intelligence & Machine Learning (AI/ML):**
 - Leverage AI/ML technologies to augment cyber defense mechanisms across integrated architecture
 - **Anticipated Schedule:** 4QFY25
 - **Anticipated Scope:** Development and deployment of AI/ML capabilities
 - **Anticipated Procurement Approach:** TBD
- **Software Development Capability:**
 - Rapid software capability development in support of integrated architecture
 - **Anticipated Schedule:** Throughout FY25
 - **Anticipated Scope:** Software Development capacity to be applied across Integrated Defensive Cyber architecture as needed
 - **Anticipated Procurement Approach:** Multiple approaches
- **Micro Sensor Hardware Deployment:**
 - Ability to sensor Industrial Control System (ICS)/Internet of Things (IoT) environments
 - **Anticipated Schedule:** FY25
 - **Anticipated Scope:** Incremental installation to ~188 AF bases
 - **Anticipated Procurement Approach:** TBD

POC: Natasha Bullard, nata

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Business Opportunities



Joint Cyber Command and Control

- The JCC2 Program is focusing FY25 efforts on continued capability development of US Cyber Command (USCYBERCOM) priorities
- Planned FY25 activities:
 - Multiple contract efforts
 - Development of new capabilities and software products in response to requirements and priorities identified by USCYBERCOM
 - Continued focus on real-time data sharing between applications and data nodes
 - Service desk strategy and support
 - Field Application Engineering
 - Enterprise Training
 - **Anticipated Schedule:** Awards beginning 1QFY25
 - **Anticipated Scope:** DevSecOps, Training, Service Desk Support, Field Application Engineering
 - **Anticipated Procurement Approach:** TBD

POC: Branch Chief: Lt Col Adan Reyes, adan.reyes@us.af.mil

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Business Opportunities



Unified Platform

- **The UP program is focusing FY25 efforts on continued capability development of US Cyber Command (USCYBERCOM) priorities**
- **Planned FY25 activities**
 - **Big Data Platform and Data Science Integration**
 - **Anticipated Schedule:** 3QFY25
 - **Anticipated Scope:** Data Governance, data observability, data provenance
 - **Anticipated Procurement Approach:** TBD
 - **Cyber Operations Security Center**
 - **Anticipated Schedule:** 3QFY25
 - **Anticipated Scope:** Software operations and sustainment, continuous monitoring to prevent, detect, analyze and respond to cybersecurity incidents
 - **Anticipated Procurement Approach:** TBD
- **Frequent Contract Sources**
 - Full and Open, Platform One Marketplace, IDIQs, GSA Schedules, 8(a)

POC: Materiel Leader: Lt Col Chris Weyers, christopher.weyers.1@us.af.mil

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Business Opportunities



Platform One

- **Platform One Solutions Marketplace**

- Web-based repository of post-competition DevSecOps video solutions ready for awards
- Continuous solicitation, low barrier to submit proposals and access to rapid contracting
- **Anticipated Schedule:** Fully Operational and Accepting Submissions from Industry
- **Anticipated Procur Approach:** Various (Federal Acquisition Regulation (FAR) Based, Other Transaction Agreements (OTAs, Agreements, etc.)
- POC: Steven Groenheim, Chief Acquisitions Officer, steven.groenheim.6.ctr@us.af.mil

- **Centralized Configuration Management**

- Increasing efficiency in the deployment and maintenance of Big Bang clusters
- Centralizing best practices and consolidating engineers enabling engineers to be re-focused into their respective product and spend less time on duplicative Day 2 ops.
- **Anticipated Schedule:** 3QFY25
- **Anticipated Procurement Approach:** P1 Solutions Marketplace – OT for Prototype
- POC: Major Matthew "Shifty" Jordan, Chief Product Officer, matthew.jordan.24@us.af.mil

- **Chat Operations License Support**

- Chat ops enterprise license for P1, Party Bus customers and many other DoD users
- **Anticipated Schedule:** 3QFY25
- **Anticipated Procurement Approach:** Competitive full-and-open
- POC: Alex Medina, Party Bus Acquisition Manager, alexandra.medina.4.ctr@us.af.mil

POC: Materiel Leader: Lt Col Paul Norris, paul.norris.2@us.af.mil

Enterprise IT & Cyber Infrastructure Business Opportunities: BIM



Base Infrastructure Modernization (BIM)



Business Opportunity

- BIM modernizes 222 DAF Active Duty, Guard, and Reserve, and geographically separated unit locations worldwide in an as a service, Government Owned Contractor Operated model. BIM provides industry best practice wired and wireless infrastructure connecting users to secure (SIPR) and unsecure (NIPR) on-/off-premise enterprise services and mission systems.

Scope of work includes:

- Inside and Outside Plant (ISP/OSP) Infrastructure
- Holistic Wired & Wireless Across Installations
- Bandwidth-On-Demand (BoD)
- Data Capture and Cyber Ops Integration

Schedule

- 25 Vendor IDIQ Awarded 19 Aug 2024
- IDIQ Period of Performance: 10 Years (5 yr base, 5 yr option)
- First Two Task Order Awards Planned for Q3 FY2025

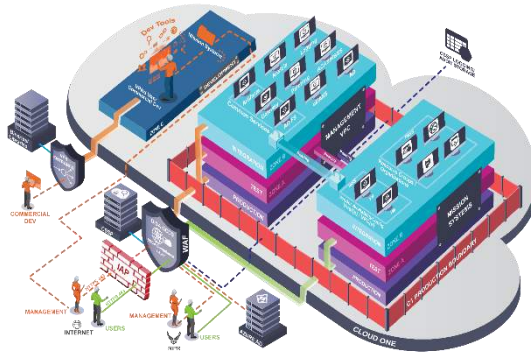
Contract Information

- Contract Strategy/Vehicles: Multi Award IDIQ with multiple task orders – each task order addressing a group of bases
- Contract Types: FFP, CPFF, CPIF, CR
- POC: Mr. Wayne E. Anderson - wayne.anderson.7@us.af.mil
- PCO: MSgt Jason Lent - jason.lent@us.af.mil

Enterprise IT & Cyber Infrastructure Business Opportunities: Cloud One



Cloud One



Business Opportunity

- Architecture and Common Shared Services contract (ACSS)
- Third of 3 Cloud One (C1) Next contracts
- Continuously operate and modernize C1 architecture and services
- Maintain and expand C1 environments, capabilities, and cyber authorizations
- Provide education, training, configuration management and support on C1 guardrails
- Adapt and market C1 environments and capabilities

Schedule

- Draft RFP: Released Aug 2024
- RFP Release: EST Mar 2025
- Anticipated Award: Q4FY25-Q1FY26

Contract Information

- Competitive Best Value Tradeoff
- Anticipated Contract Type: T&M/LH, FFP, CR
- PM: Mr. John Zelinski john.zelinski.2@us.af.mi
- PCO: Mr. John Meehan john.meehan.4@us.af.mi

Enterprise IT & Cyber Infrastructure

Business Opportunities: SABRE



Secret And Below Releasable Environment	Business Opportunity
	<p>SABRE is the DoD's Enterprise Mission Partner Environment (MPE) capability that will enable integrated deterrence by providing Combatant Commands, Services, and Agencies with a SECRET Releasable (SEC//REL) cloud environment for secure and seamless collaboration and coordination with mission partners. Scope of work includes:</p> <ul style="list-style-type: none"> • Support JITC testing to complete IOC • Maintain and modernize SABRE • Advancing SABRE ZT on pace with DoD CIO ZT PMO as SABRE moves towards full operational capability and beyond • Develop, test, and deploy capabilities into SABRE environments
Schedule	Contract Information
<ul style="list-style-type: none"> • Request for Quotation: Spring 2025 • Award: Anticipated Summer 2025 • Period of Performance: 1 base and 4 option years 	<p>Anticipated Contract Strategy/Vehicles: Single Award Task Order off GSA MAS SIN 518210C</p> <p>Anticipated Contract Types: Services Contract (FFP/T&M)</p> <p>POC: Mr. Joseph Thorp joseph.thorp@us.af.mil PCO: Ms. Lynn Tran lynn.tran@us.af.mil</p>

Enterprise IT & Cyber Infrastructure

Theater Deployable Communications (TDC)



Theater Deployable Communications

Theater Deployable Communications



Business Opportunity

Obtain contractor comprehensive sustainment and support services for TDC equipment and ensure reliable operations for all TDC systems.

Scope of work includes:

Provide global sustainment services:

- Depot-level logistical support in equipment sourcing, replacement, and inventory
- Systems configuration (technical and engineering support)
- Provide TDC equipment and software support

Schedule

- RFP Release: Q2FY25
- Anticipated Award: Q1FY26
- Period of Performance: 1 yr base, 4x 1 yr options

Contract Information

Anticipated Contract Strategy/Vehicles: SAM.gov, Hub Zone Small Business Set Aside

Anticipated Contract Type: FFP and CR ODCs

POC: Lt Col Erika Leach - erika.leach.1@us.af.mil

PCO: Ms. Filomena Gomez - filomena.gomez@us.af.mil



YOU **C&N**NOT WIN WITHOUT **IT**.



C&N

