

## Birthplace of Command and Control





December 2009

#### Volume 13 No. 2

Tust in time for the sesquicentennial of Henry W. Longfellow's "Paul Revere's Ride," Boston historian Charles Bahne has uncovered several lost stanzas of the classic poem and makes a solid case that the poet had read Revere's actual account of the events prior to composing his epic verse.

In a paper entitled "Paul Revere's Ride Revisited," Bahne carefully reconstructs the history of Longfellow's idea to write the poetic saga, the process of composing the piece, and the variations in the text when it was printed in a number of nineteenth-century publications and books. Bahne conducted extensive research using the Long-



the event, a reprinting of his 1798 letter to the Massachusetts Historical Society, in an 1832 issue of New England Magazine. When Longfellow was a twenty-five-year-old professor of modern languages at Bowdoin College, Part V of his serialized essay entitled "The Schoolmaster" appeared in that same October issue. In his later years, Longfellow in two separate letters referred to Revere's account in New England Magazine as his inspiration for the poem.

But it was almost three decades later, as the country headed towards civil war, that Longfellow began his own version of the historic day Revere described, and set about



### Had Things Been Different...





### C3I&N Mission Overview



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

C31&N is COMMITTED to implementing a culture that embodies key Department of the Air Force Priorities, such as:

- Digital Engineering -
- Digital Transformation -
- DevSecOps Environment -
- Joint Aerial Domain Command and Control

#### C3I&N ENABLES:

Decisive combat operations by delivering net centric solutions to drive dynamic integration of information/systems on the network in support of air, space, and cyberspace domains











### C3I&N Portfolio

THEATER

DEPLOYABLE

COMM

**EMERGENCY MASS** 

NOTIFICATION

SYSTEM













## C3I&N Future Opportunities

### C3I&N Industry Opportunities – Aerial Networks Division



## Data Link Enterprise (DLE) Indefinite Delivery / Indefinite Quantity (ID/IQ)

- Develop Advanced Tactical Data Link (ATDL) technology to include Common Data Link, Software Programmable Open Missions Systems Compliant (SPOC) radios, Gateways, and other HNA projects
- Expect to see more offerings as the AF further develops 0I 2





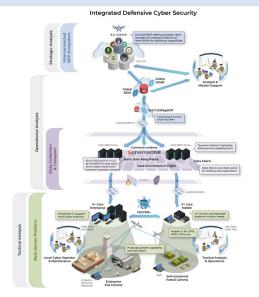






# C3I&N Future Opportunities: Cryptologic & Cyber Systems Division









## C31&N Industry Opportunities – Cryptologic & Cyber Systems Division



#### BlackArrow (RRK-NG)

 Development and Production of NSA Type 1 CM2-compliant Remote Rekey solution to re-key, manage and provide upgrades to unmanned End Cryptographic Units (ECUs) across the Air Force

#### **Crypto Enterprise Management**

Develop/deliver "real-time" cryptographic asset tracking, management, and situational awareness capability

#### **Evolved Strategic SATCOM (ESS)**

- Development and NSA certification of encryption devices for ESS satellite vehicles and ground test terminals
- Production of encryption devices to support multiple satellites and ground test terminals

#### **Defensive Cyber Ops**

 Defensive Cyberspace Operations is executing transition from Legacy Sustainment programs to new Acquisition: FY23-24-25

## C3I&N Industry Opportunities – Cryptologic & Cyber Systems Division



#### Joint Cyber Command and Control (JCC2)

- Leverage industry partners to:
  - Enhance integrated cloud-based software capabilities within the JCC2 cyber situational awareness and battlespace management application portfolio under a DevSecOps construct
  - Develop new capabilities in response to USCYBERCOM requirements in support of the Joint Cyber Warfighting Architecture (JCWA), with a focus on cyber operator ease of use and realtime data access/analytics
  - Develop and implement enterprise-level Training and Sustainment/Service Desk strategies

#### Unified Platform (UP)

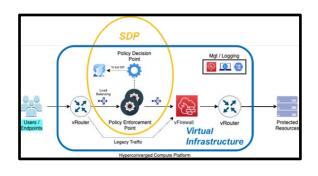
- UP Product Development
- DevSecOps Labor (Platform & Application)
- IT Operations Labor
- Atlassian Suite Expertise (JSM & ESM)
- Data Science/Engineering Labor
- Cloud Infrastructure
- License Automation

#### Platform One

- Enables continuous delivery of secured software through DevSecOps components and platforms
- Democratizes a Government-orchestrated, vendor-neutral software innovation ecosystem optimized for DAF/DoD missions







### C3I&N Future Opportunities: Enterprise IT & Cyber Infrastructure Division







## C3I&N Industry Opportunities – Enterprise IT & Cyber Infrastructure Division



#### Base Infrastructure Modernization (BIM)

- Holistic upgrade to the Base Area Network (BAN) for all DAF bases:
- Switch to Govt Owned / Contractor Operated Model
- Wired Inside and Outside Plant fiber
- Wireless Latest Wi-Fi solutions, 5G
- Scalable solutions to support future infrastructure requirements
- Improved user experience

#### **Unified Capabilities**

The Department of the Air Force (DAF) is phasing out time division multiplexing (TDM) technology and replacing it with Voice over Internet Protocol (VoIP) and cloud-based telephony solutions

#### SIPR Installation Service Node (ISN) Tech Refresh (TR)

- Contractor will tech refresh, operate (government owned / contractor operated), sustain, and provide the following:
  - Existing enterprise management capability to support and monitor base level infrastructure
  - Existing Air Force SIPRNet enterprise domain (AFNet-S) core service operations
  - Integration of other mission/functional applications into the existing AFNet-S

#### AF Systems Networking (AFSN)

- Implementation & Tier III Sustainment of Air Force Enterprise Network Infrastructure
- Network Recapitalization/Modernization
- Network Performance Engineering/Analysis
- Long-haul Comms Circuit & SDP Mgmt
- Air Force Enterprise Internet Protocol Address Mgmt
- Quick reaction network engineering & implementation for short notice/emergency requirements

## C3I&N Industry Opportunities – Enterprise IT & Cyber Infrastructure Division



#### **Emergency Mass Notification System (EMNS)**

- Implement an AF-wide layered and integrated EMNS, in accordance with Air Force Manual (AFMAN) 10-206,
   "Operational Reporting"
- The Air Force requires a single EMNS system to alert and warn 100% of assigned forces quickly and effectively of an emergent event with a single click activation
- The EMNS needs to increase situational awareness for Airmen and their families, regardless of their physical location, to enable protective measures when tragic events or emergencies occur

#### Cloud One Follow On

- Sustain and expand Cloud One's hosting environments and services for Impact levels 2-6, and across multiple Cloud Service Providers
- Cloud One incorporates ZeroTrust and Enterprise ICAM as these crucial capabilities are refined

#### Next Generation Gateway (NGG)

- Architect and deploy Next Generation Gateways to Component Enterprise Data Centers (CEDC) and base boundaries in direct support of DAF's Zero Trust Strategy
- Virtual Infrastructure Deployment via Software Defined WAN on Hyperconverged Infrastructure (HCI)
- Software Defined Perimeter (SDP) / Micro-Segmentation Deployment & Enablement

### PEO C3I&N Roadshow



- Cloud One is the preeminent enterprise cloud available to the DoD and managed by the Air Force.
- A multi-cloud, multi-vendor ecosystem, Cloud One is a one-stop shop for DoD mission application owners that require a full array of commercial cloud services, delivering speed, scale and security with cutting-edge technologies, approaches and solutions for cloud computing.





#### Assistant Secretary of the Air Force

It is time we put our heads, data, and cutting edge capabilities in **Cloud One** so that our future airmen fight with electron speed and lightning bolt power

> Cloud One and DevSecOps 13 Sep 2019

#### Air Force Chief Software Officer

Cloud One provides a plethora of services that will accelerate the accreditation process, ensure continuing compliance with security controls, and facilitate rapid future deployment of capabilities

Migration Guidance for DAF Enterprise Cloud Services 21 Jun 2021

#### DoD Chief Information Officer

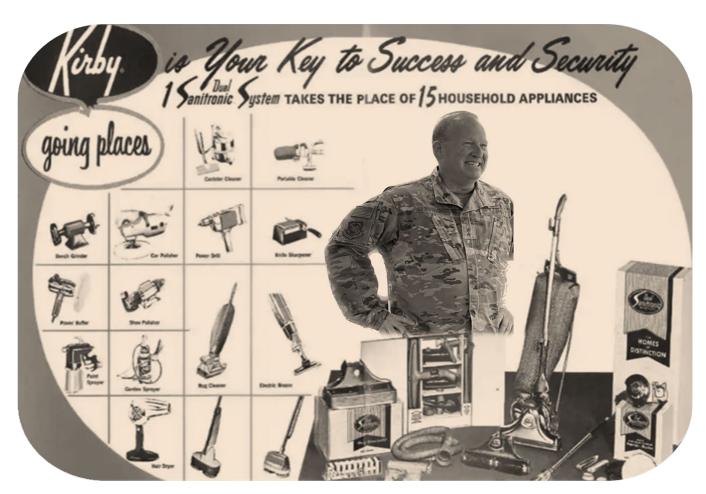
The DoD Cloud
Strategy provides the
Department unifying
guidance to focus cloud
computing investments on
reducing inefficiencies and
accelerating the
Department's digital
modernization efforts

Interim Guidance for Implementation of the DoD Cloud Strategy 16 Apr 2020

Stay tuned for additional details on PEO C3I&N Roadshow in 2023 and beyond!

### You cannot live without IT





<sup>\*</sup>Both DAF and DoD endorsement is neither implied nor intended.\*

### Summary





https://go.mil/C3IN

Please Contact
PEO C3I&N Engagement Team for additional information –
C3IN\_Engagement@groups.af.mil



### https://go.mil/HanscomInnovation

Hanscom Innovation Team
PEO C3I&N
PEO Digital
PEO NC3
CROWS
66th ABG

## Back-ups



## DLE ID/IQ Contract Business Opportunities



- Description: Develop Advanced Tactical Data Link (ATDL) technology to include Common Data Link, Software Programmable Open Missions Systems Compliant (SPOC) radios, Gateways, and other HNA projects
- Schedule:
  - ID/IQ Contract Awarded: Jan 2018
  - Post Award Conference: Feb 2018
- ID/IQ Contract Awardees (9): BAE, Boeing, Booz Allen Hamilton, Cubic, L3-Harris Technologies, Lockheed Martin, Northrop Grumman, Raytheon, Collins Aerospace
- Value: \$2.835B (Contract Ceiling)
- Customers: Army, Navy, Marines, AF, JITC, Joint Spectrum Center
- POC: Mr. William Leavis, AFLCMC/HNAG, william.leavis@us.af.mil

Expect to see more offerings as the AF further develops OI 2

## BlackArrow (RRK-NG) Business Opportunity



### 3-3-AGRARRENS

#### BlackArrow **Business Opportunity** Development and Production of NSA Type 1 CM2-compliant Remote Rekey solution to re-key, manage and provide upgrades to unmanned End Cryptographic Units (ECUs) across the Air Force CM2 Reprogramability of Algorithms, S/W, OS, & Trust Anchors Modular Open Systems Architecture, reconfigurable with HAIPEs and non-standard network equipment, within a reduced form-factor Provide KMI Capabilities while leveraging iApp marketplace Foreign Military Sales Releasable Schedule **Contract Information** RFP: Q3 FY23 Anticipated Contract Strategy/Vehicles: Competitive Best Value Evaluation Anticipated Award: Q2 FY24 Vehicles: FIA2T Period of Performance: TBD Anticipated Contract Type: TBD PM: Capt Harrison Hatcher, 210-925-2767 PCO: Ms. Quinella M. Purks, 210-232-3719

### Crypto Enterprise Management Business Opportunity



#### Crypto Enterprise Management



#### **Business Opportunity**

- Develop/deliver "real-time" cryptographic asset tracking, management, and situational awareness capability
- Consolidate, integrate, sustain, and standardize data from the disparate USAF logistics and SCM systems tracking CCI
- Provide expertise with data/software engineering, enterprise management systems, and data platform infrastructure
- Capability to extract, transform, and load (ETL) techniques and application programming interface (API) concepts

#### Schedule

- RFI: Q2 FY23RFP: Q2 FY23
- Anticipated Award: Q3 FY23

- Anticipated Contract Strategy/Vehicles:
- Competitive Best Value Evaluation
- Period of Performance: 1 Yr with 1 Yr option
- Vehicles: Cyber IDIQ
- Anticipated Contract Type: CPFF
- PM: Mr. Andrew Davenport; 210-925-5156
- PCO: Ms. Quinella Purks; 210-925-1088

# Evolved Strategic SATCOM (ESS) Crypto Business Opportunity

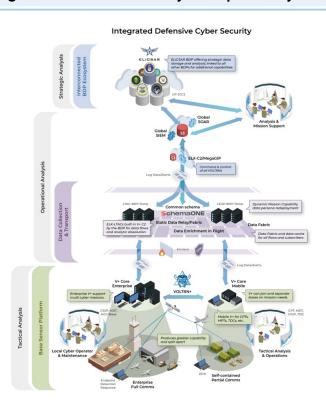


Program Name / Image	Business Opportunity	
Evolved Strategic SATCOM (ESS) Crypto	<ul> <li>Development and NSA certification of encryption devices for ESS satellite vehicles and ground test terminals</li> <li>Production of encryption devices to support multiple satellites and ground test terminals</li> </ul>	
Schedule	Contract Information	
<ul> <li>Draft RFP: Q1 FY23</li> <li>RFP: Q2 FY23</li> <li>Anticipated Award: Q4 FY23</li> <li>Period of Performance: NSA Certification Q4 FY27</li> </ul>	<ul> <li>Anticipated Contract Strategy/Vehicles: Competitive Best Value Evaluation</li> <li>Vehicle: FIA2T</li> <li>Anticipated Contract Type: CPFF</li> <li>PM: Mr. Brian Harr, 210-925-1105</li> <li>PCO: Mr. Brandon Jernigan, 210-925-5112</li> </ul>	

### Defensive Cyber Ops Business Opportunity



#### Integrated Defensive Cyberspace System



#### Schedule

- Defensive Cyberspace Operations is executing transition from Legacy Sustainment programs to new Acquisition: FY23-24-25
- Initiating Software Acquisition Pathway: 2Q FY23
- Continuing prototyping: 4Q FY22-FY23
- Begin Baseline HW fielding: 2Q FY23
- Complete Baseline HW fielding: early FY25 (target date)
- Field Minimum Operational Functionality (HW + SW): mid FY24
- Recompete Big Data Platform contract: mid FY24
- Begin Scaling HW to support expanded capability: mid-late FY24

- HW procurement contract award: 3Q FY23
- SW development contract awards: 4Q FY23-3Q FY24
- GOTS and COTS SW purchases, expert professional services, ongoing
- Smaller support contracts such as Data Science, CI/CD platform support, Transition Coordinator, FY23+
- Opportunities for Small, Large Businesses, Best Value Competitions
- Anticipated Contract Types: Fixed Price, LH and T&M
- PM: Mr. James Robison, 210–395–1272
- PCO: Mr. Richard Bremer, 210-395-1233

## Joint Command and Control Business Opportunity



Joint Cyber Command and Control (JCC2)	Business Opportunity	
ASSESS DECISION QUARTY  PLAN  BUTCHELL  BUTCHE	<ul> <li>Leverage industry partners to:         <ul> <li>Enhance integrated cloud-based software capabilities within the JCC2 cyber situational awareness and battlespace management application portfolio under a DevSecOps construct</li> <li>Develop new capabilities in response to USCYBERCOM requirements in support of the Joint Cyber Warfighting Architecture (JCWA), with a focus on cyber operator ease of use and real-time data access/analytics</li> <li>Develop and implement enterprise-level Training and Sustainment/Service Desk strategies</li> </ul> </li> </ul>	
Schedule	Contract Information	
<ul> <li>Industry Days: TBD</li> <li>RFI: ~Q3 FY23</li> <li>Draft RFP: ~Q1 FY24</li> <li>Anticipated Award: Sep 24</li> <li>Period of Performance: Sep 24 - TBD</li> </ul>	<ul> <li>Anticipated Contract Strategy/Vehicles: TBD</li> <li>Anticipated Contract Type: TBD</li> <li>PM: Mr. Bruce Goldstein, 210-977-2698</li> <li>PCO: Mr. Isaac Jones, 210-986-2094</li> </ul>	

### **Unified Platform Business Opportunity**



Unified Platform (UP)	Business Opportunity	
UP Software Development Services  UNIFIED PLATFORM	<ul> <li>UP Product Development</li> <li>DevSecOps Labor (Platform &amp; Application)</li> <li>IT Operations Labor</li> <li>Atlassian Suite Expertise (JSM &amp; ESM)</li> <li>Data Science/Engineering Labor</li> <li>Cloud Infrastructure</li> <li>License Automation</li> </ul>	
Schedule	Contract Information	
<ul> <li>Multiple Awards Anticipated</li> <li>RFI: Q3 FY23</li> <li>Draft RFP: Q4 FY23</li> <li>Anticipated Award: Q1 FY24</li> </ul>	<ul> <li>Anticipated Contract Strategy/Vehicles:         <ul> <li>Potential Set Aside: Small Business</li> <li>Competitive Best Value Evaluation</li> <li>12-month periods (may vary)</li> <li>Vehicles: GSA IT Schedules, P1 BOA, others TBD</li> </ul> </li> <li>Anticipated Contract Type: Labor Hour, Fixed Price</li> <li>Dep PM: Mr. Ryan Thompson, ryan.thompson.30@us.af.mil</li> <li>PCO: Ms. Sylvia Kirwan, sylvia.kirwan.1@us.af.mil</li> </ul>	

### Platform One Business Opportunity



#### Warfighter Benefits

- Enables continuous delivery of secured software through DevSecOps components and platforms
- Democratizes a Government-orchestrated, vendor-neutral software innovation ecosystem optimized for DAF/DoD missions

#### Description / Background



#### System Capability

- · Cloud Native Access Point (CNAP) provides zero trust security
- Iron Bank (IB) offers hardened, supply-chain secured software
- Big Bang (BB) automates DevSecOps platform (DSOP) deployments
- Party Bus (PB) is a DSOP with a continuous authority-to-operate

#### Potential Industry Opportunities (Schedule, Contract Type)



**Vehicles** 

- Basic Ordering Agreement (BOA) 2.0 refines DSO services categories; on-ramps new vendors (4QFY23, BOA)
- Commercial Solutions Opening (CSO) kick-off (4QFY23, varies)



**Innovations** 

Support and transition path for DAF SBIR opportunities (2QFY23, SBIR Phase II/III)



Services

- Container Hardening-as-a-Service (1QFY24, TBD)
- Monoliths-to-Microservices training (4QFY23, TBD)
- Secure Software Environment Services (TBD, TBD)



- Commodities
- Fortify and Appgate software licenses (July, FFP)
- SD Elements software license (Aug, FFP)
- Atlassian Jira & Confluence (Sep. FFP)
- And many more after September 2023

#### POC's:

- Chief Acquisitions Officer (acting): Mr. Duong Hang; duong.hang.3@us.af.mil
- Contracting Branch Chief: Maj George Severson; george.severson.1@us.af.mil

# Enterprise IT & Cyber Infrastructure Division Base Infrastructure Modernization (BIM) Business Opportunity



#### BIM



#### Schedule (Notional)

- RFP Release: FY23
- Anticipated Award: FY23
- Period of Performance: 10 Years (5 yr base, 5 yr option)

#### **Business Opportunity**

- Holistic upgrade to the Base Area Network (BAN) for all DAF bases:
  - Switch to Govt Owned / Contractor Operated Model
  - Wired Inside and Outside Plant fiber
  - Wireless Latest Wi-Fi solutions, 5G
- Scalable solutions to support future infrastructure requirements
- Improved user experience

- Anticipated Contract Strategy/Vehicles: Multi Award IDIQ
- Anticipated Contract Types: CPFF, CPIF, CR, FFP
- POC: MSgt Jason Lent jason.lent@us.af.mil
- PCO: John Meehan -- john.meehan.4@us.af.mil

# Enterprise IT & Cyber Infrastructure Division AF Systems Networking (AFSN) Business Opportunity



## Network Engineering Integration Services (NEIS)



#### **Schedule**

- Solicitation(s): RFP anticipated late Q2FY23
- Anticipated Award: anticipated late Q2FY23
- Period of Performance: 3 yrs 4 mos

#### **Business Opportunity**

- Implementation & Tier III Sustainment of Air Force Enterprise Network Infrastructure
- Network Recapitalization/Modernization
- Network Performance Engineering/Analysis
- Long-haul Comms Circuit & SDP Mgmt
- Air Force Enterprise Internet Protocol Address Mgmt
- Quick reaction network engineering & implementation for short notice/emergency requirements

#### **Contract Information**

Anticipated Contract Strategy/Vehicles: Section 8(a) Direct Award

Anticipated Contract Types: Firm Fixed Price

POC: James Dufour - james.dufour@us.af.mil

PCO: Richard Ashley - richard.ashley.1@us.af.mil

# Enterprise IT & Cyber Infrastructure Division SIPR Installation Service Node (ISN) Tech Refresh (TR) Business Opportunity



Business Opportunity	Schedule	Contract Information
<ul> <li>Contractor will tech refresh, operate (government owned / contractor operated), sustain, and provide the following:</li> <li>Existing enterprise management capability to support and monitor base level infrastructure</li> <li>Existing Air Force SIPRNet enterprise domain (AFNet-S) core service operations</li> <li>Integration of other mission/functional applications into the existing AFNet-S</li> </ul>	<ul> <li>Solicitation(s): RFP anticipated Q2FY24</li> <li>Anticipated Award: FY25</li> <li>Period of Performance: 5 Years</li> </ul>	<ul> <li>Anticipated Contract Strategy/Vehicles: GSA</li> <li>Anticipated Contract Types: Firm Fixed Price</li> <li>POC: Andrew Shearin – andrew.shearin@us.af.mil</li> <li>PCO: Sheras Spahija –- sheras.spahija@us.af.mil</li> </ul>

# Enterprise IT & Cyber Infrastructure Division Unified Capabilities Business Opportunity



#### **Unified Capabilities**



#### Schedule

- Solicitation(s): RFP Release Q3FY23
- Anticipated Award: FY24
- Period of Performance: 3+ Years

#### **Business Opportunity**

- The Department of the Air Force (DAF) is phasing out time division multiplexing (TDM) technology and replacing it with Voice over Internet Protocol (VoIP) and cloudbased telephony solutions
- The Unified Capabilities (UC) program management office has issued a Request for Information (RFI) for Session Border Controllers (SBCs) to gather information on how regionally deployed SBCs could be utilized to facilitate interoperability and Session Initiation Protocol (SIP) connectivity between DAF facilities and remote telephony systems

#### Unified capabilities include:

- Telephone Management System (TMS)
- Enhanced 911
- Cyber Transport System (CTS)
- Consolidated Operator Answering System (COAS)
- Automated Call Distribution (ACD)
- Legacy Voice Protection System (VPS)

- Anticipated Contract Strategy/Vehicles: IDIQ
- Anticipated Contract Types: Service/Product Buy
- POC: Michael Milligan michael.milligan.13@us.af.mil
- PCO: Abbey Gallivan -- abbey.gallivan@us.af.mil

### Enterprise IT & Cyber Infrastructure Division Emergency Mass Notification System (EMNS) Business Opportunity



#### **Emergency Mass Notification System**



#### Schedule

- Solicitation: FY24
- Anticipated Award: FY24
- Period of Performance: 5 Years

#### **Business Opportunity**

- Implement an AF-wide layered and integrated EMNS, in accordance with Air Force Manual (AFMAN) 10-206, "Operational Reporting"
- The Air Force requires a single EMNS system to alert and warn 100% of assigned forces quickly and effectively of an emergent event with a single click activation
- The EMNS needs to increase situational awareness for Airmen and their families, regardless of their physical location, to enable protective measures when tragic events or emergencies occur

- Anticipated Contract Strategy/Vehicles: Army ITES-35
- Anticipated Contract Types: FFP
- POC: Capt Jeffrey Shimko jeffrey.shimko.1@us.af.mil
- PC0: Steve Pekunece steven.pekunece@us.af.mil

## Enterprise IT & Cyber Infrastructure Division Cloud One Follow On Business Opportunity



Cloud One

## CLOUD SME

#### Schedule

- Solicitation: Q4FY23
- Anticipated Award: FY24
- Period of Performance: 5 Years

#### **Business Opportunity**

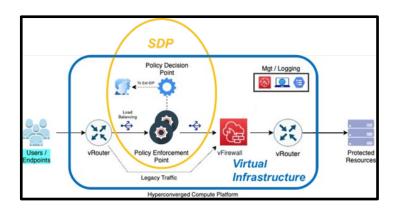
- Sustain and expand Cloud One's hosting environments and services for Impact levels 2-6, and across multiple Cloud Service Providers
- Cloud One incorporates ZeroTrust and Enterprise ICAM as these crucial capabilities are refined and promulgated across the AF and DoD

- Anticipated Contract Strategy/Vehicles:
  - Modular contracting approach w/ 3 contracts:
    - C1 Architecture & Commons Services GSA
    - Migrations GSA
    - Cloud Service Offerings & Software License Reseller - GSA
- Anticipated Contract Types: TBD\*
- POC: Capt Brandon Koury brandon.koury.1@us.af.mil
- PCO: James Faria james.faria.3@us.af.mil

### Enterprise IT & Cyber Infrastructure Division Next Generation Gateway (NGG) Business Opportunity



#### NGG



#### Schedule (Notional)

RFP Release: FY23

Anticipated Award: FY24

Period of Performance: 5 Years

#### **Business Opportunity**

- Architect and deploy Next Generation
   Gateways to Component Enterprise Data
   Centers (CEDC) and base boundaries in direct
   support of DAF's Zero Trust Strategy
  - Virtual Infrastructure Deployment via Software Defined WAN on Hyperconverged Infrastructure (HCI)
  - Software Defined Perimeter (SDP) / Micro-Segmentation Deployment & Enablement

- Anticipated Contract Strategy/Vehicles: Multi Award IDIQ
- Anticipated Contract Types: CPFF, CPIF, CR, FFP
- POC: John Zelinski john.zenlinski.2@us.af.mil
- PCO: Catherine Frotten catherine.frotten@us.af.mil