

Space Industry Days 2024

Integrated Warfighting for the Great Power Competition DAY 2 (24 OCT) SLIDES





The Air & Space Forces Association (AFA) is an independent nonprofit dedicated to advocating for and supporting the U.S. Air and Space Forces.

EVENTS:

- ✓ SSC Executive Forum - June
- ✓ Salute to SSC Dinner - June
- ✓ Schriever Wall of Honor Induction - Sept
- ✓ SSC Industry Days (co-host)
- ★ **Schriever Space Futures Forum and Executive Reception – Nov 14-15**
- ★ **Space Force Ball – Nov 15**

ACTIVITIES:

- SSC Events support
- Airmen & Guardian and Family Support
- Awards & Scholarships for Military/Civilian
- Air & Space Forces Retiree & Veterans Events
- Gold Star Families Support
- ROTC & JROTC Scholarships & Support
- STEM Education Awards & Grants
- CyberPatriot & Stellar Xplorer Grants
- LA Military Charitable Fund Donations
- Air & Space Forces Recruiting Support



Space Domain Awareness &
Combat Power:
**INTEGRATED WARFIGHTING for the
GREAT POWER COMPETITION**

SPACE INDUSTRY DAYS
24 October 2024

Colonel Bryon E. C. McClain
Program Executive Officer



»»» The Challenge: Great Power Competition

Space Threat 2020



Are we ready?



Space Threat 2030



»»» What is SDACP?

What We Do

Space Domain Awareness

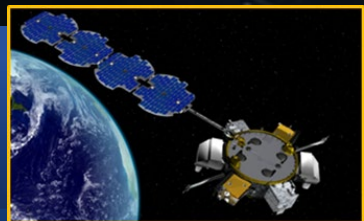
- Rapidly detect, warn, characterize, attribute, and predict threats to national, allied, and commercial space systems
- High capacity ground radars, detailed optical systems, and space-based assets maximize full characterization

Combat Power

- National security deterrence capabilities countering threats and aggression and prevail in conflict in space
- Unrivalled offensive and defensive capabilities required to gain, maintain, and exploit space superiority

Innovation & Prototyping

- Next-generation rapid, innovative & affordable technology that leverages international, commercial, & interagency partnerships



Mission

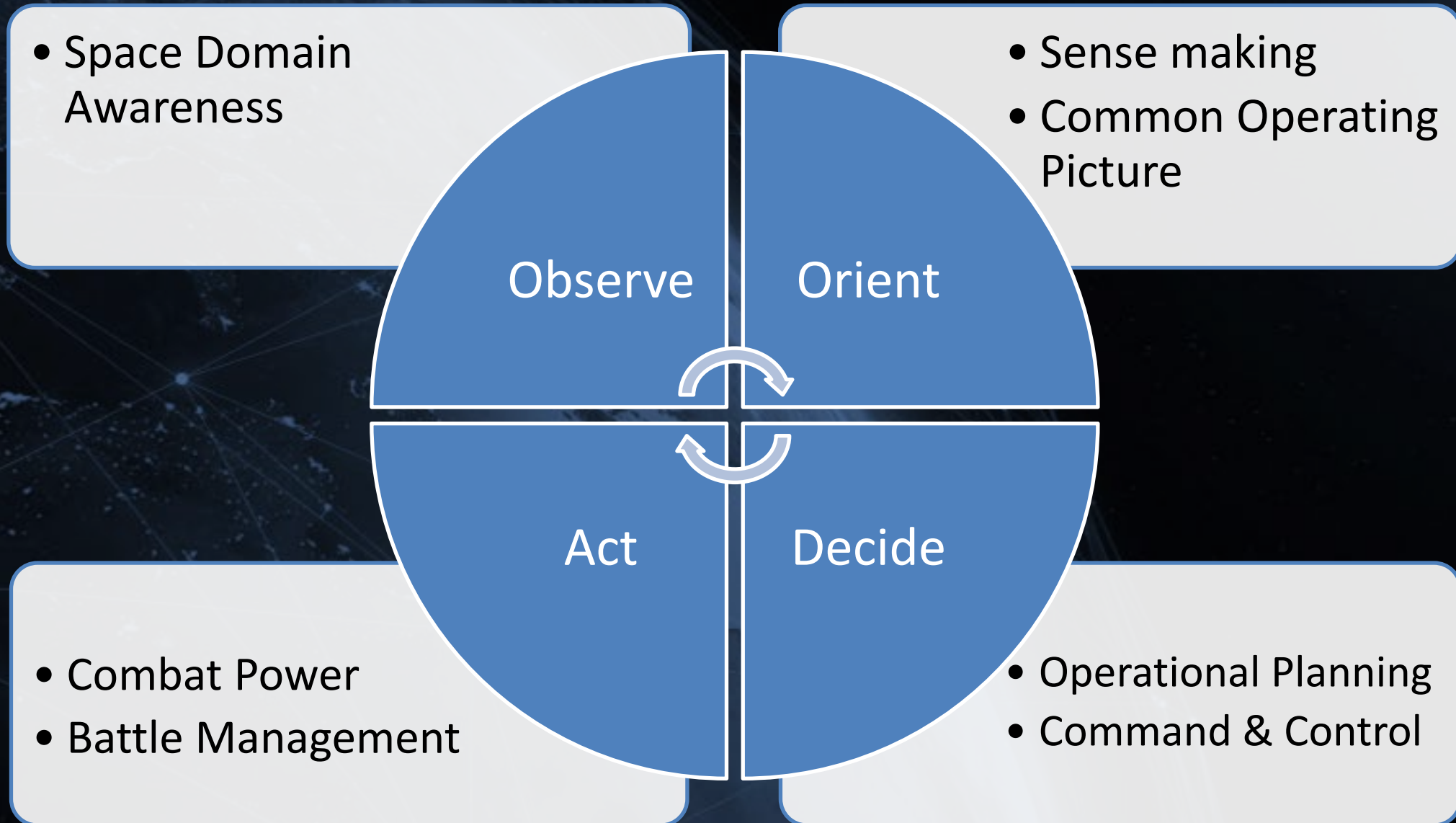
Drive advanced warfighting capabilities in, from, to and through space for the joint fight

Vision

A world-class team outpacing the threat



»»» How do SDACP capabilities integrate?





»»» Program Management Required



(Image by Jim Osterman, AI Poe)



»»» Exploit, Buy, Build - Industry & Exploit



Thrift Store



Department Store



Tailor Made



Collaboration






»»» Thinking Different: Vision

Nine Space Acquisition Tenets

A Simple Formula to Go Fast in Space Acquisition

Essential Program Management Skills for Government Space Acquisition Professionals

- 
- 1) Build smaller systems
 - + 2) Use existing technology
 - + 3) Drive contractor scope to 3 years or less
 - + 4) Use fixed price contracts
- = Mission Capabilities Faster to Our Warfighters

How Can Industry Help?

- Only bid on programs you can actually achieve
- Propose executable contracts
- Help us take advantage of existing technology
- Deliver warfighter capability on cost and schedule



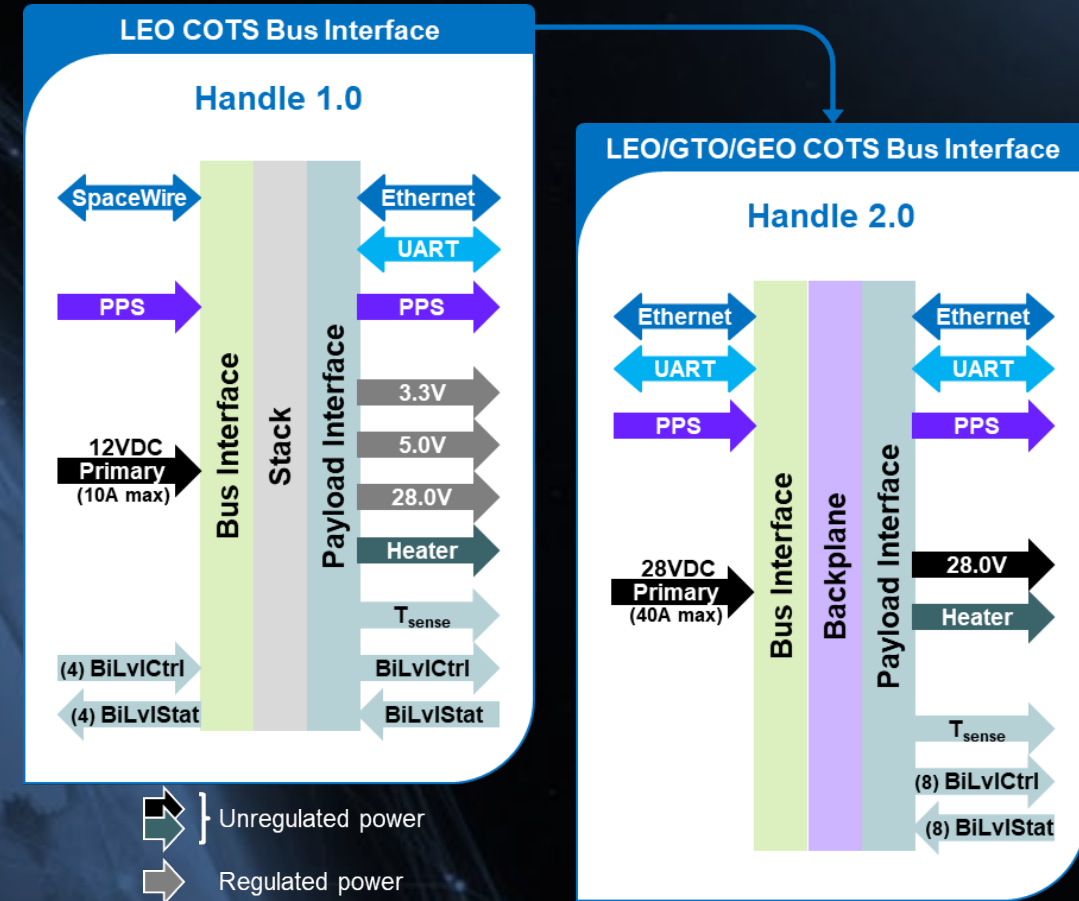
Go Fast: Open System Architecture

- Space Safari is motivated to use COTS spacecraft and mission payloads to meet response timelines
- Employing modular open systems approach (MOSA) to enable rapid integration of space capabilities
- Developing bus-payload interface electronics
 - Covers electrical and digital interfaces
 - Dev kit for independent payload development
 - Command and control via OpenC3, “drop in” to ground architecture
- Prototyping against 6 different payloads and 2 buses
- Exploring tech transfer options

Handle ICD available for industry review on 01 Dec 24

- Seeking “pain point” identification and/or level of compliance
- Send request to library.mailbox@aero.org
- Provide Government org & contract number with need-to-know statement

Aerospace Corp's Handle Transformation



As flown (Aerospace funded)

(Government funded)

Handle-only SWaP (28W, 3kg, 200x200x100 mm³)

SSC.SZ.SpaceSafari_Outreach@spaceforce.mil



Program: GEO SDA RFI

GEO SDA: The Government is considering a proliferated GEO SDA architecture to meet future 2030 collection requirements

- Government exploring options to compete future product lines
- Draft RFP expected to be released in FY25 with an FY26 start
- Future acquisition goal to reduce security

SAE TENETS: Build smaller systems, Use existing technology, Drive contractor schedule to 3 years or less, Use fixed price contracts



Industry Dates of Interest

- 05Mar24 - RFI issued
- 12Sep24 - Market Research Industry Day
- Classified Draft RFP - scheduled FY25



EW Threat Integration Program (EWTIP)

EWTIP: Provides intelligence informed software capabilities against *new and emerging* threats to ensure CCS and other EW architectures maintain effectiveness against evolving adversary capabilities.

- Pre-execution embedded Software Acquisition Path
- Creates opportunities for businesses to engage in new mission technique developments

SAE TENETS: Use existing technology, Drive contractor scope to 3 years or less to deliver



Industry Dates of Interest

- Initial Study (FOPR Sep24; Contract Oct24)
- Port Rams (RFP Feb 25; Contract Mar25)
- Titans Study (RFP Mar25; Contract May25)



>>> FY25 RFPs & CONTRACT AWARDS

Acq Delta	Program Name	Name of Planned Contract in FY25/CY25	Target RFP Release (date)	Target Contract Award (date)	POC
SSC/SZ	PARCS Product Division	Logic Chassis Replacement project	Nov 2024	Jan 2025	Mr. Randy Threet/ Mr. James Hartmetz NH-03
SSC/SZ	NCMC ITWAA	NISSC II Follow-On - NCMC Sustainment	FY25	Mar 2026	John Martin
SSC/SZ	NCMC ITWAA	NISSC II Follow-On - CMSFS Comm Support	FY25	Dec 2025	Capt Maldonado Santiago
SSC/SZ	NCMC ITWAA	IDSS Follow On	Feb 2025	Jul 2025	Matt Sheridan
SSC/SZ	Space Domain Awareness	MARK IV-B Next Gen	Sep 2024	Jan 2025	Jennifer Valentine
SSC/SZ	MEADOWLANDS	CCS Meadowlands Sustainment	Mar 2025	Jan 2026	Lt Col Natasha Peeples



QUESTIONS



Battle Management Command, Control, and Communications (BMC3)

SSC Industry Day
Ms. Shannon Pallone
Program Executive Officer

DISTRIBUTION – A: APPROVED FOR UNLIMITED RELEASE; DISTRIBUTION UNLIMITED



Threat Environment

“

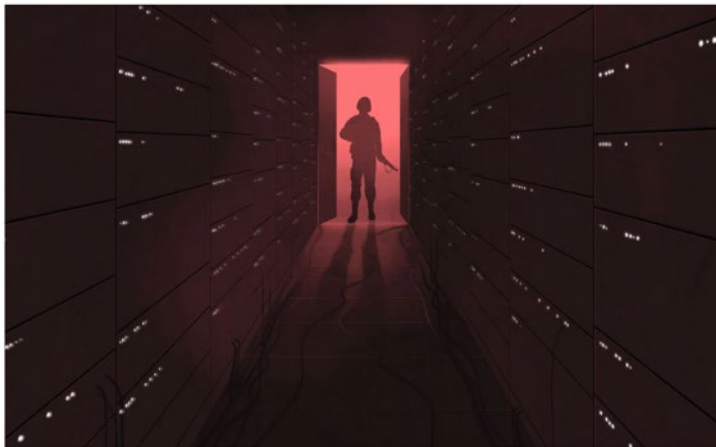
The Space Force must harness the benefits of technological innovation and emerging capabilities if we're going to be able to out-compete our competitors, or Space Force will lose, the Joint Force will lose, and the U.S. will lose

”

Gen. B. Chance Saltzman, Chief of Space Operations, 10 April 24

How AI is changing warfare

An AI-assisted general staff may be more important than killer robots



Redefining Space Defense In The Digital Age



Kelle Wendling Forbes Councils Member
Forbes Technology Council COUNCIL POST | Membership (Fee-Based)



May 29, 2024, 06:15am EDT



America's military has the edge in space. China and Russia are in a counterspace race to disrupt it

By Simone McCarthy, CNN

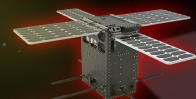
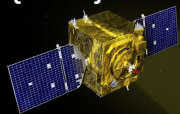
© 12 minute read · Published 12:12 AM EDT, Mon May 27, 2024



OBSERVE ORIENT DECIDE ACT (OODA) LOOP

HYPOTHETICAL SITUATION: AN UNKNOWN SATELLITE APPROACHES A CRITICAL U.S. SATELLITE WITH ERRATIC MANEUVERS, PROMPTING CONCERN ABOUT ITS INTENTIONS.

Geosynchronous Space Situational Awareness Program (GSSAP)



Threat



U.S. High Value Asset



Upgraded Early Warning Radar (UEWR)

SDACP Key Players

- UEWR
- Space Fence
- Space Surveillance Telescope
- GSSAP
- TacRS



SDACP SDA assets detect unusual activity. The threat's maneuvers are unpredictable.

OBSERVE

ORIENT

OODA LOOP

ACT

DECIDE

BMC3 Key Players

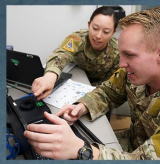
- Unified Data Library
- Warp Core
- Space Command & Control (C2)



BMC3 programs analyze and interpret information to understand its meaning and context.

SDACP Key Players

- CCS
- Rapid Reaction Branch
- Defensive Cyberspace Operations – Space
- TacRS



SDACP denies the threat's ability to maneuver.



Counter Communications System (CCS)

BMC3 Key Players

- Rapid Resilient C2
- Space C2
- Strategic Decision Conferencing



Based on the analysis, decision makers weigh options and choose the best course of action.



»»» BMC3 By the Numbers

BMC3 SNAPSHOT

**TOTAL VALUE WITHIN
PORTFOLIO**

\$4.4B
(FY22-29)

74+ CAPABILITIES DELIVERED
FOR THE WARFIGHTER

**MISSIONS
SUPPORTED 28+**

Programs:

1 SWP Program 8 AML-Exempt Projects
1 ACAT III Program 37 Sub-Application/Projects

7 INTERNATIONAL COALITIONS

AUS - CAN - FRA - GER - NZL - U.K. - JPN



Connecting USSF space systems, international operations centers, commercial and civil antennas, and the DoD to build a resilient enterprise ground architecture

Our Partners:

100

INDUSTRY
PARTNERS

60

GOVERNMENT
PARTNERS

X

CLASSIFIED
PARTNERS

Our People:

22%

~180

Military & Civilians

78%

~625+

Contractors



»»» FY2024 Highlights

Satellite Control Network (SCN) Typhoon Recovery

Returned 2/3 SCN antennas damaged by Typhoon Mawar to full ops in under 4 months

SDA Capability Integrated Tests (SCIT)

Accelerated SW development proved out agile practices, averaging 126 days to close CAT IU Test Problem Reports

meshONE-T Operations Support

Installed 9 nodes to support NORAD-USNORTHCOM, providing 10G long-haul comms between the Eastern Air Defense Sector and the Secret Commercial Cloud Services system supporting the ABMS Cloud-Based C2

Unified Data Library (UDL) High-to-Low Data Transfer

Reduced time to provide critical data to govt partners (NASA & DoC) from 4 hrs to mere mins supporting planetary defense and space traffic management missions

Allied Exchange Environment (AXE)

Won "Fight Tonight" Competition; Enabled data sharing with international allies



Operational C2

"The USSF seeks capabilities from the commercial sector that can contribute to the holistic generation of SDA."
USSF Commercial Space Strategy 2024

Mission Overview

- Deliver critical services to warfighters for timely, quality driven battlespace decisions in the space domain fight
- Provide infrastructure, enterprise services, and mission applications that enable responsive, resilient operational-level capabilities for space operations centers

2024 Major Activities

- Space Delta 2 Operationally Accepted UDL, CODA and NDPP providing first electro-optical data from commercial and non-traditional sensors
- National Space Defense Center Operationally Accepted Kronos
- ATLAS is conducting its 9th Integrated Test Event; on track for Operational Trial Period

Key Technology Areas

- Data as a Service
- Software (SW)
- Application development
- Platform
- Infrastructure



Industry Opportunities

Program Name: Space Command and Control (C2)

Description of Effort: Space C2 performs software, platform, and infrastructure development for the Space Domain Awareness (SDA) mission area and for Operational C2 centers such as the Combined Space Operations Center (CSpOC), National Space Defense Center (NSDC), Space Force Deltas, COCOMs and other DoD customers.

Summary:

1. DevSecOps Platform and Space C2 Enablement: FOPR released 13 Sep 24 GSA **OASIS Pool 1b**
2. 24/7 Network Operations Center: FOPR release 1QCY25 **to OASIS+**
3. Data Software Services (DSS): FOPR release 4QCY24 **to 18 DSS IDIQ Contract Contractors**
4. Organic Software Support: FOPR release 1QCY25 **to GSA MAS**
5. Other SDA SW FOPRs/RFPs: Release FY25 TBD
 - SDA Common SDA Workflows
 - Dynamic SDA Events
 - Messaging
 - Launch Risk Reduction

Timeline: **Anticipate Contract Awards spanning 1QCY25- 3QCY25**

Contract Value Ranges: **~\$15M to ~\$200M including option years**

Contact Information: Matt Gonzales, SSC/BCCS, matthew.gonzales.8@spaceforce.mil



Industry Opportunities

Program Name: 24x7 Network Operation Center (NOC) Support

Description of Effort: This contract seeks to provide expert services in support of a 24x7 NOC to monitor ATLAS as well as its suite of applications and data feeds. This solution must enable continuous monitoring of the system and available information boards, as well as enable basic Tier 1 level maintenance such as account resets and login issues. It must also enable the requirement to roll back to legacy system in the event of an outage lasting longer than 2 minutes

Timeline:

- Draft RFP Release Date: 4QCY24 to OASIS+ Small Business Pool
- RFP Release Date: 1QCY25
- Estimated Contract Award Date: 3QCY25

Contract Value: ~ \$30-40M (5 years)

Contact Information: Logan Bolitho, Maj, BCCS, logan.bolitho@spaceforce.mil



Industry Opportunities

Program Name: Data as a Service (DaaS) *changing to Data Software Services (DSS)*

Description of Effort: The Government has transitioned to an agile approach toward software development to deliver advanced warfighter capabilities that require the aggregation of massive amounts of data from disparate sources and systems. The DaaS contract will assist the scaling of this effort by providing enterprise data storage and data management solutions capable of operating in secure environments and providing data products and advanced analytics to the DoD and Joint force with focus on Air and Space operational communities

Timeline:

- Draft RFP Release Date: **4QCY24 to DSS IDIQ Pool**
- RFP Release Date: **4QCY24**
- Estimated Contract Award Date: **3QCY25**

Contract Value: ~ **\$150-180M (5 years)**

Contact Information: Matt Gonzales, SSC/BCCS, matthew.gonzales.8@spaceforce.mil



Industry Opportunities

Program Name: Space C2 Organic Support

Description of Effort: The Organic Support contract seeks to provide product management, product design, and software engineering services to support the design, development, integrations, test, deployment, and continuous improvement of operational capabilities delivered by Kobayashi Maru's Rapid Software Section (Section 31). These capabilities primarily support Space Tasking Cycle and Electronic Warfare workflows for the Combined Space Operations Center under Delta 5 and the Satellite Communications mission area under Delta 8.

Timeline:

- Draft RFP Release Date: 4QCY24 to GSA MAS
- RFP Release Date: 1QCY25
- Estimated Contract Award Date: 2QCY25

Contract Value: ~ \$35-45M (5 years)

Contact Information: Matt Gonzales, SSC/BCCS, matthew.gonzales.8@spaceforce.mil



»»» Satellite Control Network

"The USSF seeks capabilities from the commercial sector that increase and/or improve data transport speed, capacity, agility, flexibility, reliability, and/or resiliency and incorporate emerging technologies for the Joint Force to maintain competitive endurance." USSF Commercial Space Strategy 2024

Mission Overview

- Sustain and maintain the Satellite Control Network (SCN)

2024 Major Activities

- SCN Sustainment
- Mission Transport Remote Tracking Station (MTR)
- Air Force Satellite Control Network Edge Transport System (ANETS)

Challenges

- Sustaining beyond End of Life (EoL) equipment
- Aging infrastructure
- Electronic and mechanical failures w/significant downtime

Recent Successes

- Typhoon Mawar Response Team



Industry Opportunities

Program Name: The Data Transport Product Support Sustainment Logistics Maintenance (DSLML) contract was awarded 22 Mar 2024 and ends Sept 2029. **Industry engagements will occur in 2028.**

Description of Effort: The DSLML contract provides for sustainment, maintenance, logistics, facilities and security support. The contract locations potentially include: Schriever Space Force Base, CO; Vandenberg Air Force Base, CA; Diego Garcia, British Indian Ocean Territory; Guam Tracking Station, Guam; Hawaii Tracking Station, HI; New Boston Air Force Station, NH; Eastern Vehicle Checkout Facility, FL; Thule Air Base, Greenland; Oakhanger, Hampshire, United Kingdom; Automated Test Bed, Colorado Springs, CO. It also provides for coordination with various depots in support of Level 2 hardware and software maintenance responsibilities

Timeline:

- **Awarded March 2024 ends September 2029**

Contract Value: \$271M Awarded

Contact Information: Ms. Tane Yingling, Email: tane.yingling@spaceforce.mil



SCN Modernization

“The USSF seeks capabilities from the commercial sector that increase C2 capacity and capability. The USSF will prioritize capabilities with dynamic technology (i.e. multi-band). These types of capabilities allow for delivery of resilient data management, decision support tools, planning support, and secure global communications to the Joint Force to avoid operational surprise and deny adversarial first-mover advantages.” USSF Commercial Space Strategy 2024

Mission Overview

- Drive enterprise integration and modernization of tactical level C3 capabilities to transform satellite operations

Major Activities

- Deliver AFSCN Scheduling Tool (AST) for Operational Acceptance
- Stand up the Joint Antenna Marketplace (JAM)
- Expand meshONE-T
- Deliver Minimal Viable Product for Enterprise Resource Manager (ERM)
- Deliver Federal Augmentation Services (FAS) for Operational Acceptance
- Characterize suitability of Modularized Transitional RTS – Deployable (MTR-D)

Key Technology Areas

- Expanding network capacity
- Ground Resource Management
- Aging infrastructure
- Modern data transport networks



Industry Opportunities

Program Name: Joint Antenna Marketplace (JAM)

Description of Effort:

- **Exploit** existing antenna capabilities and services
- **Buy** or lease commercial antenna capacity
- **Build** antennas with niche capability only (e.g. SGLS and Mil Ka)
- Provide framework to streamline access to enhanced antenna capacity
- Enable secure, dynamic, real-time satellite command and control
- Flexible marketplace model facilitates adaptive scheduling of contacts and data transport globally to and from antenna locations, significantly enhancing USSF satellite control resiliency

Timeline: November: JAM RFI Follow-Up Industry Days in Colorado Springs, CO

- RFI Released 3 September, 22 responses received
- 19-21 November: JAM RFI Follow-Up Industry Days in Colorado Springs, CO

Contract Value: TBD

Contact Information: Lt Col Brian Kester, USSF SSC/BCT; brian.kester.1@spaceforce.mil



»»» Ways to Engage

CTO Industry Engagement

Launched Nov 2023

176 Industry Partner Meetings



Minutes of Engagement

8,285

Ways to Connect

45 In-Person
45 Virtual
15 Follow-On

Top 10 Topics of Discussion

1. → **DevSecOps**
2. → **Artificial Intelligence and Machine Learning**
3. → **Cybersecurity**
4. → **Space Domain Awareness**
5. → **Cloud Computing**
6. → **Data Management and Analytics**
7. → **Command and Control**
8. → **Integration**
9. → **Software Development**
10. → **Ground Station Networks**

Look for Us At:

SFA SPACEPOWER 24
AFA WARFARE 25
SPACE SYMPOSIUM 25
SPEC INDUSTRY DAYS 25
SPACE INDUSTRY DAYS 25
SFA SPACEPOWER 25
OTHERS... TDB

SCAN TO CONNECT



WOW! (Waffles on Wednseday)



Waffles Eaten?

1,534 Wednesdays

of 52

Connections Made?

INVALUABLE

The Wisdom Sessions

Launched March 2024

The Wisdom Sessions, our lunchtime series, was created to foster learning, growth, and community within our teams. Topics are carefully curated to inspire and challenge. We hope you'll join us!

WISDOM.001



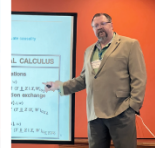
Dynamic Space Operations
ExoAnalytic Solutions

WISDOM.002



Explainability in AI
Nara Logics

WISDOM.003



Looking Backwards to Understand
Orion Space Solutions, an Archfield Company

WISDOM.004



AI for Knuckle-Draggers
Dr Jack Long, acting Navy Chief AI Officer at the Office of Naval Research

WISDOM.005



The Future of AI is Horse Poop!
Dr. Joel Mozer, Space Force Chief Science Officer Emeritus

UPCOMING
WISDOM.006
Dec 4th
WISDOM.007
Jan 8th
WISDOM.008
Feb 12th
WISDOM.009
Mar 5th



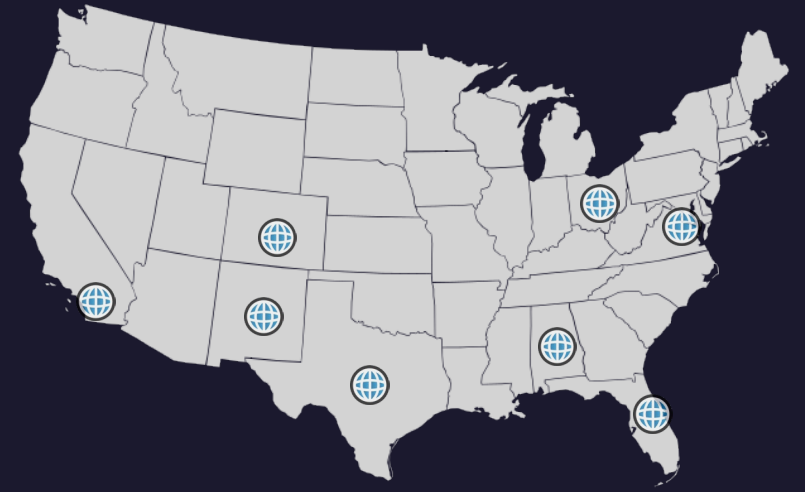
#TogetherWeWill
WWW.THECTO.SPACE

Transparent Community Dialogue

About OMNI

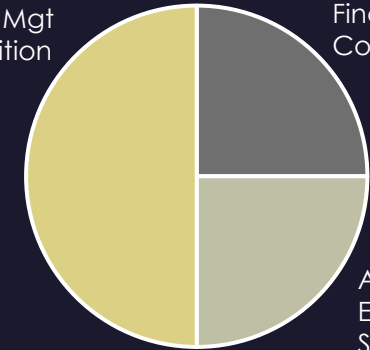
➤ OMNI Consulting Solutions specializes in providing expert advisory support to the U.S. Space Force, offering strategic insights, acquisition support, and innovative solutions tailored to the unique challenges of Space, Defense, and Security.

- Supporting SSC since 2011 – 160+ employees nationwide
- OASIS Pool 5B SB & OASIS+ Prime
- Top Secret facility clearance
- Service Disabled Veteran Owned Small Business
- ISO 9001:2015, 14001, and 27001 certified



Program Mgt
& Acquisition

Financial &
Contract Mgt



Architecting,
Engineering,
Software/IT

•Contact

- HQ: El Segundo, CA
- Nate Conn – Chief Growth Officer
- nconn@omniconsultcorp.com
- www.omniconsultingsolutions.com

Architecting, planning, engineering, and executing Space programs to maximize customer outcomes

Our data analytics, cyber & integrated solutions

are built around a digital ecosystem that is standards based, leverages artificial intelligence/machine learning (AI/ML) and best of breed technology to deliver a wide range of products & solutions to support the warfighter in all domains – Sea, Air, Space, Ground & Cyber.

Our Core Tenants:

Mission-Driven Innovation & Speed to Solution

Technology centered around the warfighter to deliver tangible and mission critical solutions – in months, not years.

Agility & Responsiveness w/out Disruption

“Aim, Fire, Adjust” - we want to deliver not only rapidly but in a way that is flexible, scalable and capable of rapid deployment and iteration. We don’t look to displace or disrupt, but compliment & augment. Additionally, data ownership always remains with our customers.

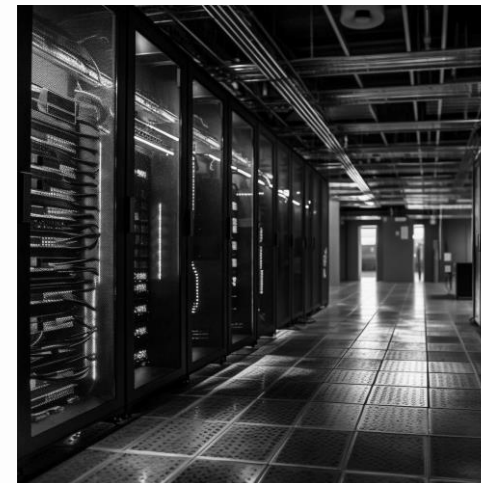
Deliver Value @ Reduced Cost

High quality solutions can be delivered at lower costs without sacrificing performance, capabilities or reliability.



AI + Digital Transformation.

Integrated across our portfolio.



Risk Analysis & Rapid Integration.

Solutions to meet the mission.



Logistics, Modeling & Simulation

Advanced Analysis & Exploitation.



Defensive & Resilient Cyber

Identify, Protect and Defend.



Space Domain Awareness.

Meeting Space challenges today.



Acquisition & Sustainment.

Decades of continued support.

SETTING THE TRAJECTORY. FUELED BY INNOVATION.

We support the nation by creating a technological advantage for our mission partners and by solving the most complex and demanding national security and space-related challenges.



SPACE DOMAIN
AWARENESS



VERY LOW EARTH ORBIT
(VLEO) CAPABILITIES



SYSTEMS OF SYSTEMS
ENGINEERING AND
INTEGRATION



SENSOR AND
PAYLOAD DESIGN



SMALLSAT AND CUBESAT
SPACECRAFT

ARCFIELD™

ORION
SPACE SOLUTIONS


STC
AN ARCFIELD COMPANY



Space Industry Days MilComm & PNT (MCPNT)

24 October 2024

Mr. Cordell DeLaPena Jr, SES, DAF
Program Executive Officer for MilComm & PNT

- 
- MilComm & PNT: Overview
 - Current Operational Environment
 - Year of the Pivot
 - Where We Are
 - Where We Are Going
 - Contract Actions



MCPNT Video

Mission

Rapidly deliver premier MilComm and PNT capabilities resilient to the threat by the relentless pursuit of warfighter needs and acquisition excellence

Vision

World-class space professionals connecting people and systems, any time any place, to enable unity of effort across all warfighting domains

EPS-R Launch from Vandenberg SFB, CA, 11 Aug 2024

1800+

active duty, civilian, and contractor employees

4 GPS Ground Stations

17 GPS Monitoring Stations

2 GPS Control Stations

GPS satellites in sustainment

6-GPS IIR

7-GPS IIR-M

12-GPS IIF

6-GPS III

SATCOM satellites in sustainment

6-AEHF

6-DSCS

2-EPS

5-MILSTAR

5-MUOS

10-WGS

4-UFO

28 satellites/payloads in production or development

WGS 11(1) WGS 12(1) GPS III(4) GPS IIIF(10) R-GPS(8) MUOS (2) EPS-R(2)

FY24-28
total budget
\$21.6 billion

8 Ground Systems

Over 2 Million Units

of GPS User Equipment (UE) fielded
with next-gen Military GPS UE starting to field

Over 400,000

GPS User Equipment (UE) sold through
GPS Foreign Military Sales (FMS)

17,000+

SATCOM Terminals

More than 200 GPS FMS cases
in work and active engagement with 60 allied nations

MCPNT
BY THE
NUMBERS

32 Active Programs

9 Systems in Sustainment

9 ACAT I Programs

1 ACAT II Programs

5 ACAT III Programs

3 MTAs

3 SWPs

10 AML Exempts

1 Quick Start

CHINA

- “Develop the space industry and build China into a space power is our eternal dream”
 - Sees space as critical to both a modernized economy and “informatized” warfare
- Relies on a suite of growing space & counterspace capes to support national goals
 - Near term: regional hegemony
- Plans to COMPETE
 - Sees future of domain as China-led
 - 550% increase in on-orbit satellites since 2015

RUSSIA

- The bedrock of Russian strength in space is Soviet-era technology & infrastructure
- Recent sanctions reduced space development capabilities
 - Faces challenges related to budget, corruption, workforce, and quality
- Plans to DENY & DEGRADE
 - Acknowledges asymmetric position
 - Aggressively pursuing diverse counterspace options

“The Space Force’s \$30 billion budget needs to grow — whether that’s through internal Defense Department trades or an increase from Congress”

“[The Space Force] budget is going to need to double or triple over time to be able to fund the things we’re actually going to need to have,”

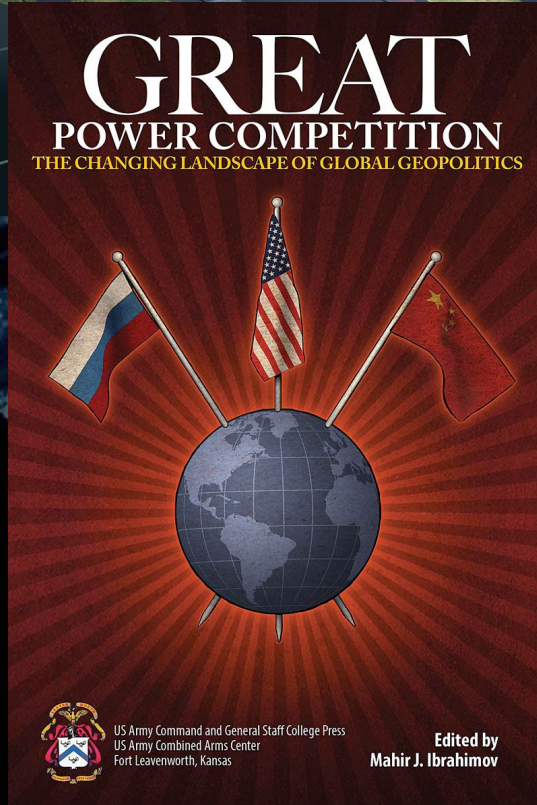
“We have received Quick Start authority to field additional low-cost GPS satellites to increase the resilience of the GPS system and have initiated that program.”



SECAF Frank Kendall at the
Air & Space Forces Association’s
2024 Air, Space and Cyber
Conference

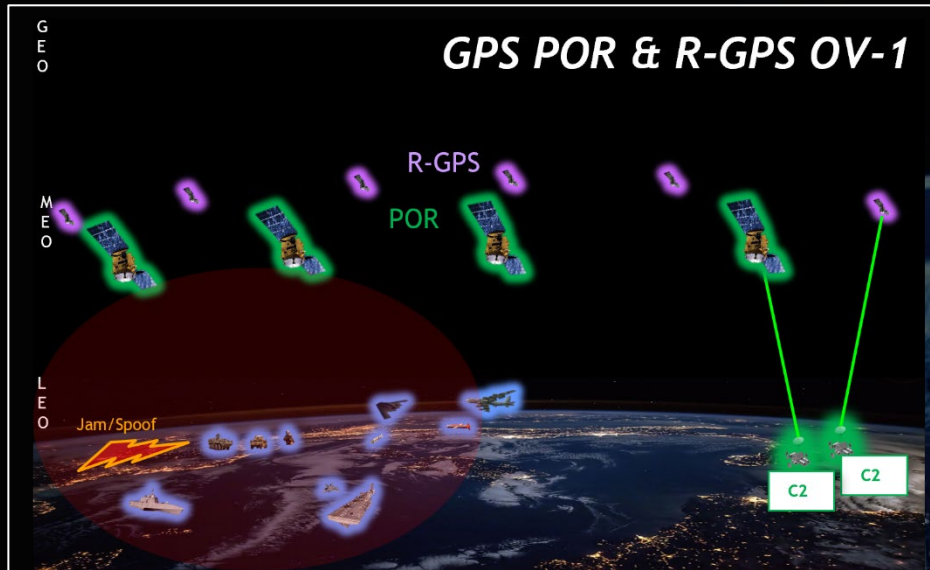
“I have instructed our briefers to stop referring to the Chinese Communist Party and the People’s Liberation Army as a ‘future’, or ‘emerging’, or ‘potential’ threat. ... It is a serious threat today,”

- SECAF Kendall, AFA, 16 Sep 24

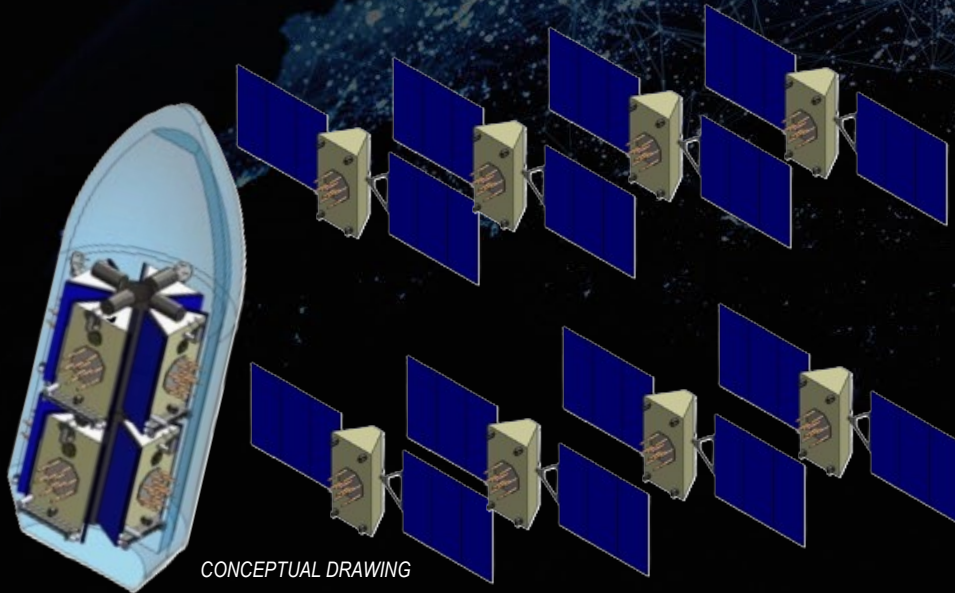


- ❖ Capability Delivery:
 - ❖ Current programs focused on execution
- ❖ Race to Resiliency:
 - ❖ USSF's first Quick Start for Resilient GPS (R-GPS)
 - ❖ SATCOM Disaggregation
- ❖ Commercialization & International:
 - ❖ Luxembourg mPOWER
 - ❖ PTS-G
 - ❖ Space Norway (EPS-R)
- ❖ Non-Traditional:
 - ❖ Reverse Industry Days
 - ❖ SpaceWERX Challenge Events
 - ❖ STRATFI / TACFI

Outpace the Threat & Accelerate Joint Warfighter Capabilities



- **Resilient GPS augments GPS constellation with proliferated small satellites**
 - Implementing SWAC Force Design and Defense Science Board recommendations
 - Transmit core GPS signals providing resilience to Million+ military (DoD & Allied) and Billion+ worldwide civilian users
 - “YMCA” signals: L1 C/A, P(Y), and M-Codes
 - Acquired in LEAPs (Lite Evolving Augmented Proliferation) of up to 8 satellites
- **Leveraging new FY24 NDAA “Quick Start” Authority**
- **Strategy leveraging both traditional and non-traditional vendors**
 - Phase 0: 4 vendors to executable design concepts in early 2025
 - Phase 1: Up to 2 vendors to Full Design and Payload Demo in 2026
 - Phase 2: Up to 2 vendors build up to 8 satellites for launch as early as 2028
 - USSF Affordability Goal: \$50 - \$80M per SV



Resilient GPS LEAP 1 Phase 0 Awarded September 2024 - 6 Months from Approval to Award!

Disaggregated and Diverse Systems

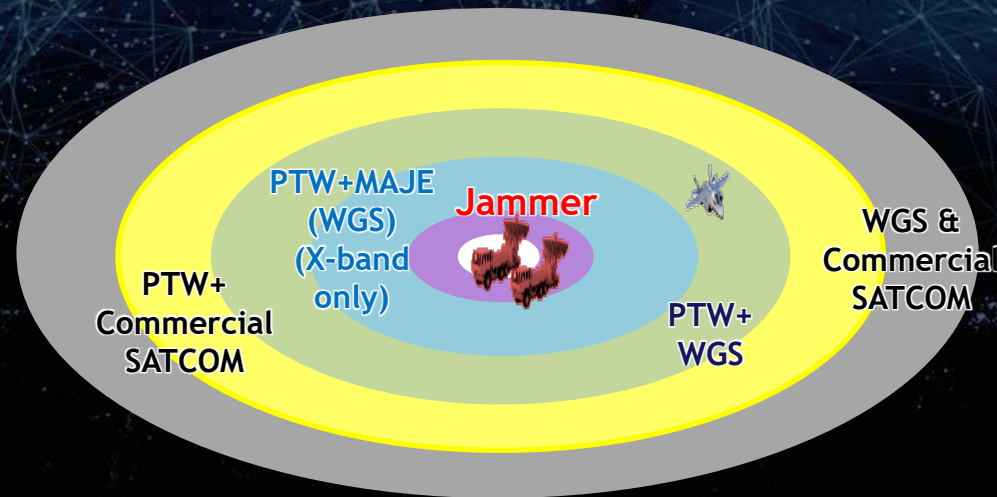
ESS

- Survivable and endurable SATCOM capability for the NC3 Mission
- Space and control segments for worldwide arctic DoD strategic, secure and jam-resistant communications for ground, sea, and air assets



PTS-R

- Provide tactical users with beyond-line-of-sight, advanced anti-jam, low-probability-of-intercept protected communications in highly-contested anti-access/area denial environments by utilizing the Protected Tactical Waveform



PTS-G

- Purpose-built, disaggregated X-band and mil-Ka band capability to satisfy demand as an extension to WGS
- PTS-G = GEO orbit disaggregated complement to PTS-R
- Maximizes the use of commercial space vehicle providers - COTS products with minor modifications



ESS Space Development and Production	CPIF/CPAF/CPFF/FFP	Competitive	Est. Award Q2FY25
PTS-R EMD, Production & Operations	FFP	Competitive (Limited)	Est. Award Q2FY25
Protected Tactical SATCOM-Global (PTS-G)	IDIQ (FFP)	Competitive	Est. Award Q3FY25



Commercial SATCOM Augmentation

Protected-Strategic (EHF)

AEHF

ESS

TRANSITIONING

Protected-Tactical (X, mil-Ka)

PTS-Resilient

PTS-Global

X-band

Wideband (X, mil-Ka)

WGS (1-10)

WGS (11-12)

TRANSITIONING

Commercial (L, C, Ku, Ka)



Narrowband (UHF)

MUOS

MUOS SLE

2010s

2020s

2030s

- Critical for ops through and after nuclear attack (NC3)
- Moderate data rates, classified user equipment
- Onboard processing for anti-jam, anti-scintillation

- Critical for ops near enemy (anti-jam or low detectability)
- High data rates, unclassified user equipment (5000+ users)
- PTS-R: onboard processing for high anti-jam in conflict area
- PTS-G: ground processing, anti-jam or low detectability

- Assured military access using commercial technologies
- High data rates, unclassified user equipment (5000+ users)
- After WGS12, transitions to PTS-R, PTS-G, & commercial

- Alternate paths, high capacity, low cost for routine ops
- Worldwide coverage in GEO and now MEO, LEO
- Military shares resources with other users

- Critical for mobile users through canopy and all weather
- 3G cellular-like SATCOM, global voice and data
- Low data rates, small user equipment (20,000+ users)

International Partnerships



Executing 400 active FMS cases

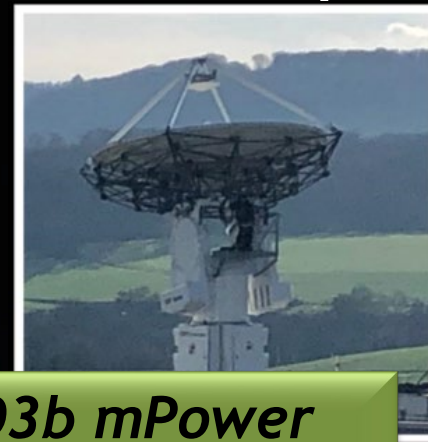
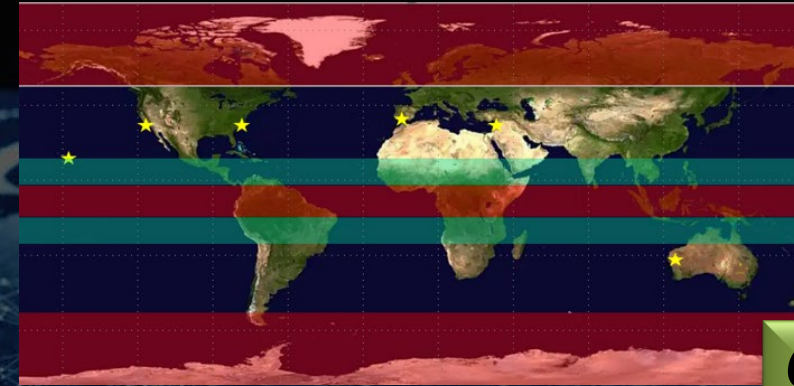
- Total active case value ~\$70M
- In receipt of inquiries for over 40K M-code receivers



EPS-R
Space Norway



- 18 April 2024: EPS-R Control and Planning Segment (CAPS) Operationally Accepted
- 11 August 2024: Successful dual launch of Space-X payloads; now undergoing on-orbit checkout



O3b mPower
Luxembourg

Current Status

- USSF is funded for 3 years of pooled capacity (FY24-26) and six dedicated gateways
- Capacity should be available for DoD users by the summer of 2024; will fully leverage SES commercial gateways and infrastructure

Future Plans

- Long term plan is for a sovereign ground infrastructure, followed by the joint hub variant to enable PTWoC
- Sovereign unique solutions, sovereign capacity management, other modifications also in consideration

5 Areas of Modernization/Integration:

1. Move SATCOM into the Space Data Network (SDN) domain
2. Increase communications adaptability through system virtualization
3. Achieve higher capacity gateway and infrastructure resilience
4. Increased need for small/micro satellites to build more prolific constellations
5. Leverage 5G/6G NTN/Direct to Device technologies while maintaining military robustness, resilience, and autonomy



2 Days / 160+ Participants

Reverse Industry Days and SpaceWERX Challenge Integration

2023: Alt PNT RID
2024: MILSATCOM RID

2024: AltPNT SBIR Awards
2025: MILSATCOM SBIR Awards

Gather >

Hone >

Collaborate >

Solicit >

Evaluate >

Execute

MILSATCOM

ALT PNT

Stage 1
Gather market intelligence

Stage 2
Review ideas

Stage 3
Develop challenge focus areas

Stage 4
Use industry input to finalize RFP

Stage 5 *
Request customer memorandum

Stage 6
Customer feedback, review and prioritization

Stage 7
Contract Management and/or Accelerator

* Based on solicitation requirements

TOTAL =

Front Door Facilitated

SpaceWERX Facilitated

Reverse Industry Day

Problem Definition Workshop

Challenge Definition Workshop

Challenge Campaign

Tech Eval/ Solution Showcase

Award

SPACEWERX



Commercial Integration: PNT Development Initiatives

SpaceWERX/AFWERX Alt PNT Challenge

- ❖ 122 responses from industry
- ❖ Awards: 20 x \$1.9 Million

Focus Areas

- **Non-Radio Frequency (RF) PNT:** Develop PNT that is not based on electromagnetic signals
- **Alternative Space-Based PNT:** Develop space-based PNT from other non-Global Navigation Satellite System sources
- **PNT Fusion:** Develop techniques and algorithms for fusing multiple independent sources of PNT
- **PNT Assurance and Integrity:** Develop and mature GPS and GNSS signal integrity and PNT assurance techniques to validate signals broadcast in a multi-GNSS environment
- **PNT Situational Awareness (SA), Monitoring:** Enhanced capabilities to monitor the global GNSS spectrum environment
- **PNT Innovation Center:** Define, develop, and equip a government-funded Alternative PNT Innovation Center

TeraSense

mesa
quantum

Xairos

AO Sense

TRIDENT
SENSING E

POLARIS
SENSOR TECHNOLOGIES

SLINGSHOT
AEROSPACE

StarNAV

TRUSTPOINT

SYSTEMS ENGINEERING
INFINITY

DEVORTO
CORPORATION

Xona
space systems

nousystems

* Awards have the potential for follow-on TACFI Funding

- Led by Ms. Katherine Coens
- Responsible for near-term to long-term MilComm & PNT future capabilities
 - Leveraging both AI/ML
 - Teaming with Partner Nations/NATO allies (Allied by Design)
- Implementing SWAC Force Designs into MilComm & PNT programs
- Working with SpaceWERX, AFWERX, SSC Front Door, SpOC, and AFRL to bring new capabilities into programs
 - SBIR for MILSATCOM being released soon
 - Partnering with industry through TACFI and STRATFI
 - Transitioning AFRL technology into programs of record

Working to rapidly adapt to the threat through new technologies, partnerships, investments

FY24 Awarded Contracts

Contract	Contract Type	Sole Source or Competitive Contract	Award Date	Value
MCPNT SAFS Financial Support Services	FFP	Competitive	Q1FY24	\$185M
SAFS-2 SATCOM Financial Services	CPFF	Sole Source	Q2FY24	\$9.9M
SAFS-2 PNT Acquisition and Financial Services	FFP	Sole Source	Q2FY24	\$20.3M
WGS-12	FFP	Sole Source	Q2FY24	\$439.6M
SLE Space Risk Reduction and Early Design (Phase 1)	FPIF	Competitive	Q2FY24	\$132M
Foreign Military Sales BAE Selective Anti-Spoofing Module SAASM 3.7 Single Chip Module	FFP	Sole Source	Q2FY24	\$8.5M
Foreign Military Sales BAE GPS Receivers	FFP	Sole Source	Q2FY24	\$7.4M
Foreign Military Sales Trimble Military and Advanced Systems Receivers	FFP	Sole Source	Q2FY24	\$18M
ESS Mission Planning Apps (Phase 1 & 2)	FFP x 5 and FPIF x 2	Competitive	Q4FY24	\$250K x 5, \$20M x 2
WGS GSCCE	FFP	Sole Source	Q4FY24	\$28.6M
Resilient GPS Phase 0	FFP	Competitive	Q4FY24	\$10M x 4

FY24 Contract Awards: \$930.55M

Non-Traditional and Commercial Awards & Opportunities

Contract Type	Award	Value
SBIRS: Alt PNT SBIRS Contract Awards	Q4FY24	\$41.8M (22 x \$1.9M)
TACFI: Tactical Funding Increase Award	Q2FY24 Q3FY24 Q4FY24	\$5.7M (3 x \$1.9M) \$3.6M x 1 \$1.25M x 1
STRATFI: Strategic Funding Increase Award	Q3FY24 Q4FY24	\$3.3M \$4M

FY24 Contract Awards: \$59.65M

Opportunity	Award Window	Value
SBIRS: MILSATCOM SBIRS Contract Awards	Q3FY25	\$15.2M (8 x \$1.9M)
COMMERCIAL: Timing Over Commercial Signal	FY25	\$10M

FY25 Potential Awards: \$25.2M

Active Solicitations and Upcoming RFPs

Contract	Contract Type	Competitive / Sole Source	RFP Release/ Award Date	Value
ESS Space Development and Production - Active Solicitation	CPIF/CPAF/CPFF/FFP	Competitive	Q2FY24 / Q2FY25	~\$8B*
MUOS Ground Modernization - Active Solicitation	CPIF/CPAF/CPFF/FFP (IDIQ)	Sole Source	Q2FY24 / Q1FY25	\$2.2B ceiling
Tiqker Space Duty Acceleration (TACFI) - Active Solicitation	FFP	Sole Source	Q3FY24 / Q4FY24	\$3.9M
PTS-R EMD, Production & Operations - Active Solicitation	FFP	Competitive (Limited)	Q3FY24 / Q2FY25	~\$6.3B*
ESS Out-of-Band Command & Control (OOB-C2) Application via Command and Control System - Consolidated (CCS-C)	Task Order via IDIQ	Sole Source	Q1FY25	~\$40M
Enterprise Management & Control (EM&C) [OTA]	FFP	Non-Competitive	Q1FY25	\$5M
Enterprise Management & Control (EM&C) - Development	IDIQ	Competitive	Q1FY25	< \$100M
Enterprise Management & Control (EM&C) - Integrator	IDIQ	Competitive	Q1FY25	> \$100M
Protected Tactical SATCOM-Global (PTS-G)	IDIQ (FFP)	Competitive	Q2FY25	~\$4B ceiling
ESS GIF & SOSI (Phase 2)	FPOF & CPAF	Sole Source	Q2FY25	\$287M
MUOS SLE Space (Phase 2)	FFP/CPFF	Limited Competition	Q2FY25	~\$2.2B
Space Hub Integrated ECU Leading-Edge Development (SHIELD)	FFP	Sole Source	Q2FY25	~\$20M
ESS Mission Planning Apps (Phase 3)	TBD	Sole Source	Q4FY26	~\$240M

FY25-FY26 Contracts Value: ~\$22.8 Billion

*In Source Selection;
Values Pre-Decisional

#CommunicateNavigateDominate



#SpaceStartsHere



GDIT

Art of the possible.

Accelerating the Space Force
digital ecosystem.

SOFTWARE FACTORY

IL6 MULTI-CLOUD

DEFENSIVE CYBER

ICAM / ZERO TRUST

DIGITAL ENGINEERING

QUANTUM CRYPTOGRAPHY



Southern California Aerospace Professional Representatives

WHAT do we do?

- We promote and maintain effective business-related communication between Southern California government agencies and the aerospace industry.
- Establish a forum and environment for the presentation of information on government space programs that is helpful to our members.
- We are a non-profit, non-discriminatory and politically non-partisan organization.

WHO are we?

- Over 120 members from over 80 large and small companies employed in business development and program management.
- All members have an interest in working with government and military space programs.
- SCAPR is a non-attribution environment where speakers can talk candidly about their programs and related issues without fear of being directly or incorrectly quoted in the press.

Complete Membership Application

Scan the QR Code to the right:

Or go to:

www.scaprla.org/apply-for-membership/



2024 SPEAKERS



Ms. Barbara Baker

Deputy Program Executive Officer
MILCOM and PNT



Dr. Claire Leon

Director
Space Systems Integration Office



Col Rich Kniseley

Senior Materiel Leader
Commercial Space Office



Col Craig Frank

Chief Information Officer
Space Systems Command



Col Bryon McClain

Program Executive Officer
Space Domain Awareness and Combat
Power



Lt Gen Philip Garrant

Commander
Space Systems Command



Ms. Natalie Riedel

Director of Contracting
Space Systems Command



Lt Col Gary Thompson

Chief
Platform and Enterprise Services,
Operational C2 Delta, PEO BMC3



Empowering our customers to tackle what's next with impactful solutions.

30+ years of *Results with Impact*

CAPABILITIES & EXPERTISE

SPACE

- Launch Operations & Integration
- Systems Engineering & Integration
- Cybersecurity
- Turnkey Multi-Project Mission Solutions
- Safety & Mission Assurance
- Multi-Disciplinary Engineering
- Aeronautics Research
- Advanced Technology Development
- SmallSat Integration & Development
- Rapid Development

DEFENSE

- Force Protection
- Counter-UAS
- Logistics Engineering
- Environmental and Safety
- Aviation Services
- Air & Missile Defense
- Test & Evaluation
- Systems Engineering
- Software Engineering
- Modeling & Simulation
- Range Operations

CIVIL

- Air Traffic Management
- Information & Cybersecurity
- Procedure Development
- Safety Risk Management
- Test & Evaluation

SPACE CUSTOMERS

- US Space Force
- US Space Command
- Air Force Research Lab (AFRL)
- NRO
- DIA Missile and Space Intelligence Center
- NOAA & FAA
- Commercial Space
- OSD Research & Engineering
- Joint Special Operations Command (JSOC)
- NASA

SPACE LOCATIONS

- El Segundo/ Vandenberg/ Mtn View / Pasadena, CA
- Denver/Colorado Springs, CO
- Albuquerque, NM
- Stennis Space Center, MS
- Ogden, UT
- Glenn Research/ Dayton, OH
- National Capital Region
- TN Valley/Huntsville Metro, AL
- Greenbelt, MD
- Patrick SFB/Melbourne, FL
- Johnson Space Center, TX
- Hampton/Wallops Island/ Langley, VA





SPACE RAPID CAPABILITIES OFFICE

PRESENTATION TO THE 2024 SPACE INDUSTRY DAYS

OCTOBER 2024

Distribution A: Approved for public release: distribution is unlimited (Case number: SPR-002)

For additional info, please contact: Space RCO Strategic Communications Director at matthew.fetrow@spaceforce.mil

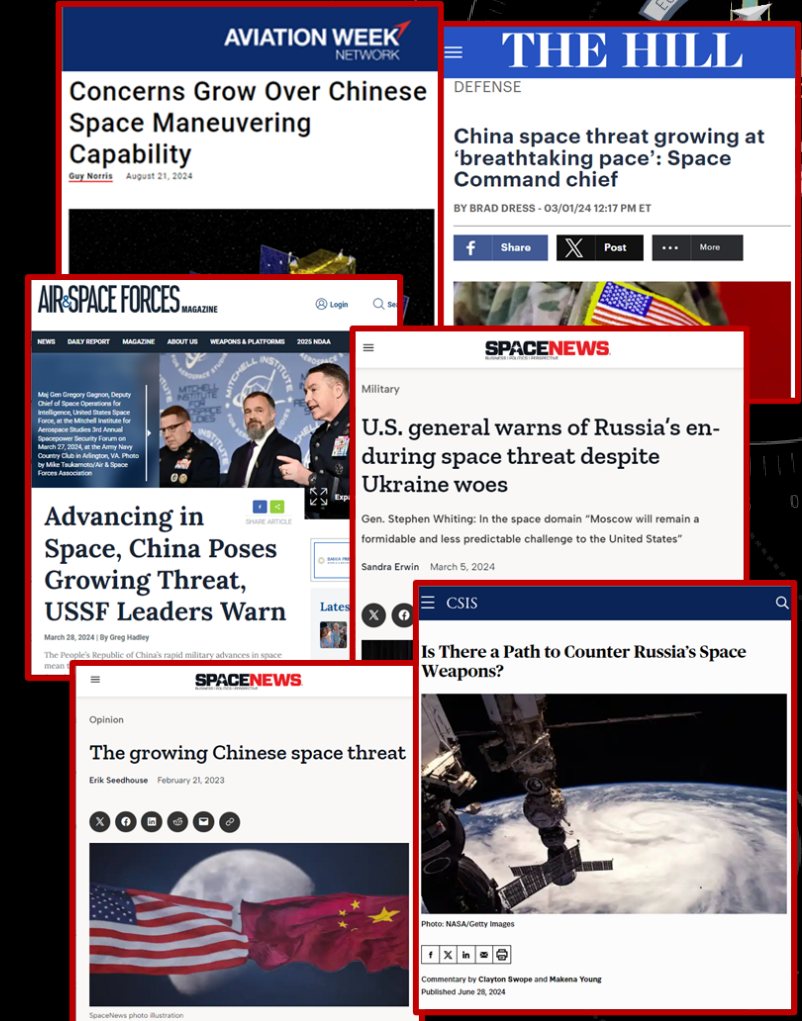
OVERVIEW

- Space RCO Introduction
- Program Examples
- Working With Us



THE THREAT IS REAL AND HERE NOW

- Space is a warfighting domain with threats growing at a “breathtaking pace”
- Military space leaders increasingly more direct in the need to be able to counter those threats
- Means the USSF needs to be able to present new, but operational *and combat-credible* systems that:
 - Responsibly hold space threats at risk when needed
 - Defend US and allied satellites when threatened
 - Employ dynamic and dominant space maneuver to achieve surprise and gain the tactical initiative
 - Possess all supporting enablers of awareness, autonomy, etc.



Space RCO is proud to be the office delivering timely and combat-credible systems to counter increasing space threats

PROTECT AND DEFEND FOCUS

We are the Space Force's acquisition office delivering space and ground systems to counter threats:

- Awareness sensors to alert operators of threats to HVA's
- Ground jammers to deny adversary comms with satellites used to target our forces
- Satellite operations software allowing operators to control many dynamic satellites at once
- Flexible ground communication systems that connect to multiple satellites at a time
- And many more...



"We have seen [China's] development of counter-space weapons just rapidly, breathtakingly increase.... Now, it is about having professionals laser-focused on this problem: How do we defend against these threats?" *Gen. Stephen Whiting, CDR, USSPACECOM, Aspen Security Forum, 7/17/24*

OFFICE DETAILS: SMALL & INDEPENDENT

- A small (~250 people), independent non-traditional USSF acquisition office established by statute in 2018
- Executing about a dozen programs assigned by our Board-of-Directors (BoD)
- Charged with rapidly delivering first-of-their-kind operational space systems to counter threats
 - Systems that protect space assets and defend Joint forces from space-enabled attack
- Headquartered in Albuquerque, NM, with offices and staff in LA, CO and DC



***Space Force Rapid Capabilities Office:
Delivering the most challenging military space systems***

WE DON'T WORK ALONE



- We work with STARCOM early in and throughout the acquisition to execute Integrated Test for our systems



- We work with SpOC in defining system requirements, creating design reference missions, to support their fielding decision and operational acceptance



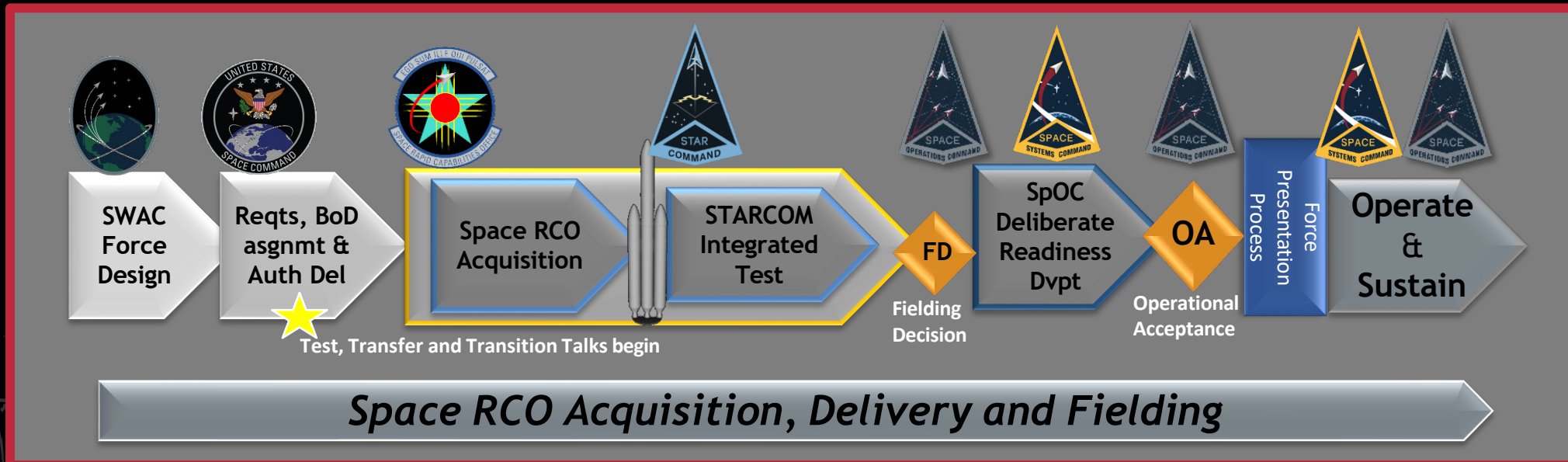
- And we work with SSC to prepare for system sustainment and follow-on programs



We aren't done until our systems are combat-credible and presentable

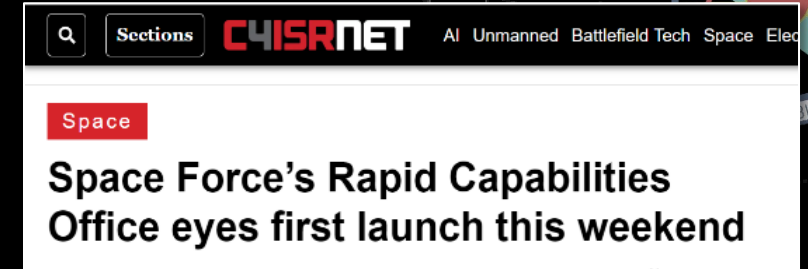
PARTNERSHIPS TO GAIN COMBAT CREDIBILITY

- Delivering and *successfully fielding* a combat-credible space capability to the USSF goes far beyond Space RCO; requires continuous coordination with all USSF Field Commands and many others
- Requirements and integration well-coordinated inside and outside the USSF
- Space RCO completes initial acquisition but tests with STARCOM, transfers to SSC for follow-on acquisition and sustainment, and transitions to SpOC for operational acceptance



PROGRAMS: SPACE PROTECTION PAYLOADS

- Two on-orbit warning payloads to help USSF high value satellites detect and ID threats
- One small, robust encryption payload to support secure data downlink on the host spacecraft
- Launched on SSC's LDPE-3A in January 2023 and tested for 6 months—still collecting interesting data!
- Space RCO delivered 8 systems so far; transferring production contracts to SSC
- Coordinated with USSF S5, SSC/SSIO, SpOC and others on an enterprise approach for space protection payloads on USSF spacecraft



KG-505 Flight Hardware



PROGRAMS: SATELLITE COMMUNICATIONS AUGMENTATION RESOURCE (SCAR)

- Relocatable, electronically-steerable satellite comm systems (antennas, electronics, software) to expand satellite control comms bandwidth and flexibility
 - Designed to make multiple contacts simultaneously
 - Relocatable system with flexible tasking to better support dynamically operating satellites
- Contract awarded to BlueHalo in May 2022
 - Aug 2023: Completed sub-scale demo
 - April 2024: Integrated backend mission services demo and feedback session with operators
- Site for first unit selected by SpOC
- Unit deliveries starting in 2025



Image credit: Senior Airman Ruben Garibay



Image credit: BlueHalo

PROGRAMS: REMOTE MODULAR TERMINALS (RMT)

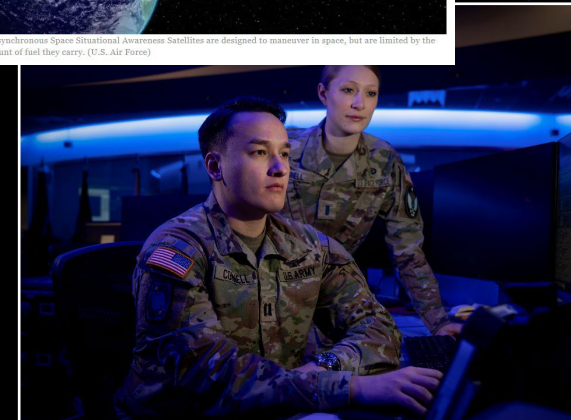
- Small, low-cost transportable jammers for ground-based electronic warfare against satellites used to target Joint Forces
 - Augments existing jammers with proliferated, remotely controlled and relocatable systems, to include austere environments
- Contract awarded to small biz Northstrat Inc in Sep 2022, just 38 days from receipt of proposals
 - Completing the first set of 24 units (antennae, electronics, software) with 4 delivered ~1 year from contract kickoff!
- Tightly coordinating with all USSF Field Commands to get to Operational Acceptance
 - STARCOM: Stood up Integrated Test Team within 4 mos and Integrated Test completed within 18 mos from award
 - SpOC co-authored key requirements documents, participated in all milestone reviews and leading Fielding Decision processes for operational transition
 - SSC provided Dep PM and Space RCO will transfer production contract to SSC in 2025



Image credit: STARCOM

PROGRAMS: RAPID RESILIENT COMMAND AND CONTROL (R2C2)

- Combined Space RCO/SSC program delivering critical, tactical ground segment software to operate dynamic USSF satellites with protect and defend missions
 - Provides 8 tactical SatOps functions, such as Rendezvous and Proximity Operations (RPO) planning, antenna brokering and telemetry, tracking and command
 - Connects machine-to-machine through C3BM-approved interfaces to the operational battle management system, integrated to the larger C3BM architecture
- Awarded a multi-year indefinite-delivery/indefinite-quantity contract to 20 small business for software tools and infrastructure for application development
 - A total of 25 software vendors now on contract
 - AWS for cloud infrastructure, La Jolla Logic and IS4S for backbone services
- Authority to Operate in place for both unclassified & classified commercial cloud environments granted in 3 months



(U.S. Space Force photo by Dennis Rogers)

HOW TO DO BUSINESS WITH SPACE RCO

- We expect to have just a few specific opportunities in the next year
- Space RCO tailors every acquisition and acquisition strategy
- For most acquisitions, we will publish Requests For Information – to aid in refining acquisition strategy and to assess the industry base
- Sometimes our specific opportunities are classified – even the RFIs and RFPs might be classified. For these efforts, we need to work with companies who can manage classified programs:
 - Facility Clearance Letter (FCL) (allows companies to hold and manage clearances)
 - Staff with security clearances (or readily clearable)

DOING BIZ WITH US: WHAT WE ARE/AREN'T LOOKING FOR

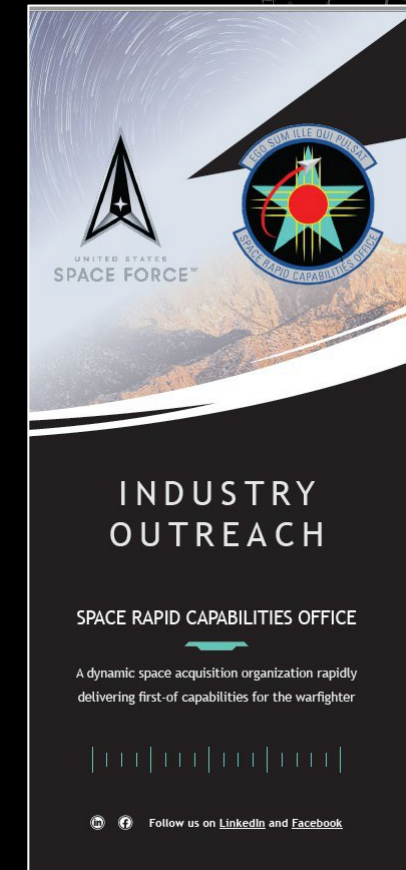
- Helping industry better understand how we do business and what we ARE and are NOT looking for saves time for both parties!
 - We are interested in full system capabilities – not component tech or subsystems
 - We're looking for mature tech (TRL 6+)—but okay with putting together multiple higher TRL components that have not yet been demo'd together
 - We do NOT do tech maturation, but happy to refer you to folks that do
 - We're generally looking for products and services to engender dynamic protect and defend missions, such as agile, autonomous spacecraft capable of sustained, dynamic space maneuver and key enablers
 - We do NOT focus on traditional space-based services (PNT, SatCom, ISR, MW)



We're interested in mature, whole-system tech for protect and defend missions. We are not currently interested in space services missions.

HOW INDUSTRY SHOULD CONNECT WITH US

- Space Small Business Director maintains an open-door policy to meet with small businesses
- Best “point-of-entry” is Space RCO’s Front Door email box:
SpaceRCO.Innovations@spaceforce.mil
 - Actively monitored by Industry Outreach and Market Research lead
 - Conducts initial engagements and refers for follow-on engagement as appropriate with appropriate Space RCO members or Small Biz Director
- We routinely engage to educate at Conference booths, association Briefings for Industry (e.g. PACA-NM, AFCEA) & speaking engagements
 - Have participated in podcasts, numerous virtual forums, Collider events, etc. to educate and reinforce Space RCO’s general interests



We have connected with over 200 companies in the last few years!!

EXPANDING OUR INDUSTRY BASE TAKES TIME

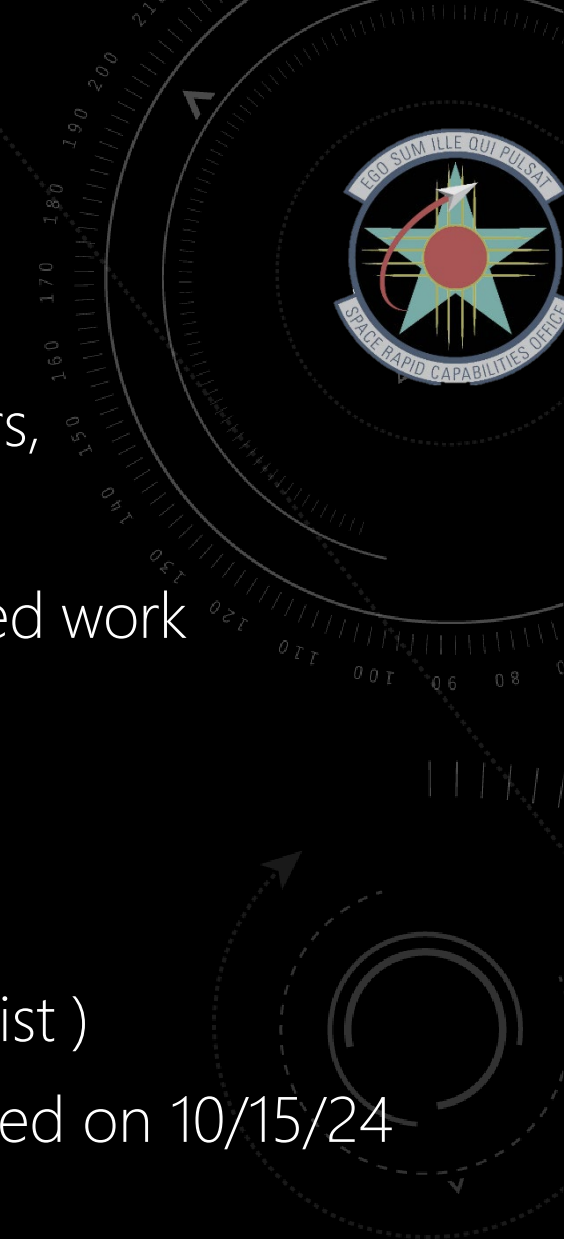
- Once preliminary Space RCO interest is established, we conduct more targeted tech exposure in a variety of ways:
 - Curated, private meeting panels with Space RCO Leadership at conferences
 - Visits from Space RCO leaders to company facilities or at Space RCO
 - Exposure and networking events with Space RCO Integrating Primes and/or Space RCO leaders
- For classified exposure and engagement (at Space RCO levels), we've sponsored a small number of companies (~20) for accesses req'd
 - Allows participation in Space RCO Portfolio Days, which includes a 1-on-1 meeting with leadership, and classified networking with Space RCO primes



Space RCO understands these efforts have been limited in expanding actual opportunities and we are working to change that

SPECIFIC OPPORTUNITIES (1 OF 2)

- We are (still) looking for GEO-capable, agile, small satellites
 - We have had many conversations with non-traditional bus providers, exploring their plans for GEO capable satellites
 - Also discussing challenges and best approaches to manage classified work
- R2C2 ground satellite operations software program
 - Announced an IDIQ with 20 companies a few months ago
 - We are not done onboarding companies
 - If you think you are right for us – reach out (we are keeping a list)
- Advisory and Assistance Services (A&AS) contract follow-on RFP released on 10/15/24
 - 8(a) set aside



SPECIFIC OPPORTUNITIES (2 OF 2)

- Space RCO working to pilot a “Prime Fusion Accelerator” – connecting small companies with mature products to traditional and non-traditional system integrators
 - Pilot starting late fall will likely focus on awareness sensors for GEO spacecraft
- Space RCO has stepped up interest in SBIR's – particularly more mature efforts in RF and optical awareness sensing
 - Working with SpaceWERX to craft upcoming special topics on threat awareness sensors and own-ship awareness



Expect to see an increasing number of unclassified Space RCO requirements posted on SAM.GOV and/or the PLEE/SOLICITATION module

CONNECT WITH US!

On Facebook:

<https://www.facebook.com/TheSpaceRapidCapabilitiesOffice/>

On LinkedIn:

<https://www.linkedin.com/company/the-space-rapid-capabilities-office>

Business Development and Other Requests:

SpaceRCO.Innovations@spaceforce.mil

And... Join us at the sidebar....





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Allen.**

110
Years Young

Booz Allen is 110 years young in 2024! From World War II to Apollo 11 to today's digital revolution, we have been empowering people to change the world.

Over 2,000 space professionals supporting Space Force, Intel Community, NASA and other Civil agencies

Core Space Business Strengths: Mission Integration, System of Systems Integration, Digital Engineering, Cyber, AI, Digital Transformation, Advanced Ground Systems

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Assured Access to Space Overview

24 October 2024

Brig Gen Kristin Panzenhagen
Program Executive Officer, AATS

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>>> Intro Video





Responsive and Reliable Launch

**NATIONAL SECURITY
SPACE LAUNCH**



**ROCKET SYSTEMS
LAUNCH PROGRAM**



**MISSION
ASSURANCE**





>>> Resilient and Ready Spaceports

INFRASTRUCTURE



SPACEPORT
OPERATIONS



DEFENSE





Industry Opportunities/Engagements

Opportunities	Date	Contact
NSSL Phase 3 Lane 1 Launch Services Procurement IDIQ	On-ramp RFP: 1Q FY25	Kirsten Precht kirsten.precht@spaceforce.mil
NSSL Phase 3 Lane 1 Launch Services Task Orders	Multiple Mission RFPs: 3Q FY25	Kirsten Precht kirsten.precht@spaceforce.mil
Cooperation with AF Civil Engineering Center to execute Spaceport MILCON efforts	Beginning FY28-30	Lt Col Brian Velez brian.velez@us.af.mil

Engagements	Date	Contact
SFA Spacepower Conference	10-12 Dec 24, Orlando FL	ussfa.org/spacepower-conference
Space Mobility Conference	28 Jan 25, Orlando FL	spacemobility.org

Monitor SAM.gov and listed websites for updates and additional information

December 14, 2024 ✦ Cape Canaveral Space Force Station, FL

3RD ANNUAL

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Technology that Moves Missions

Defense

|

Space

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National Security

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Intelligence

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Civilian





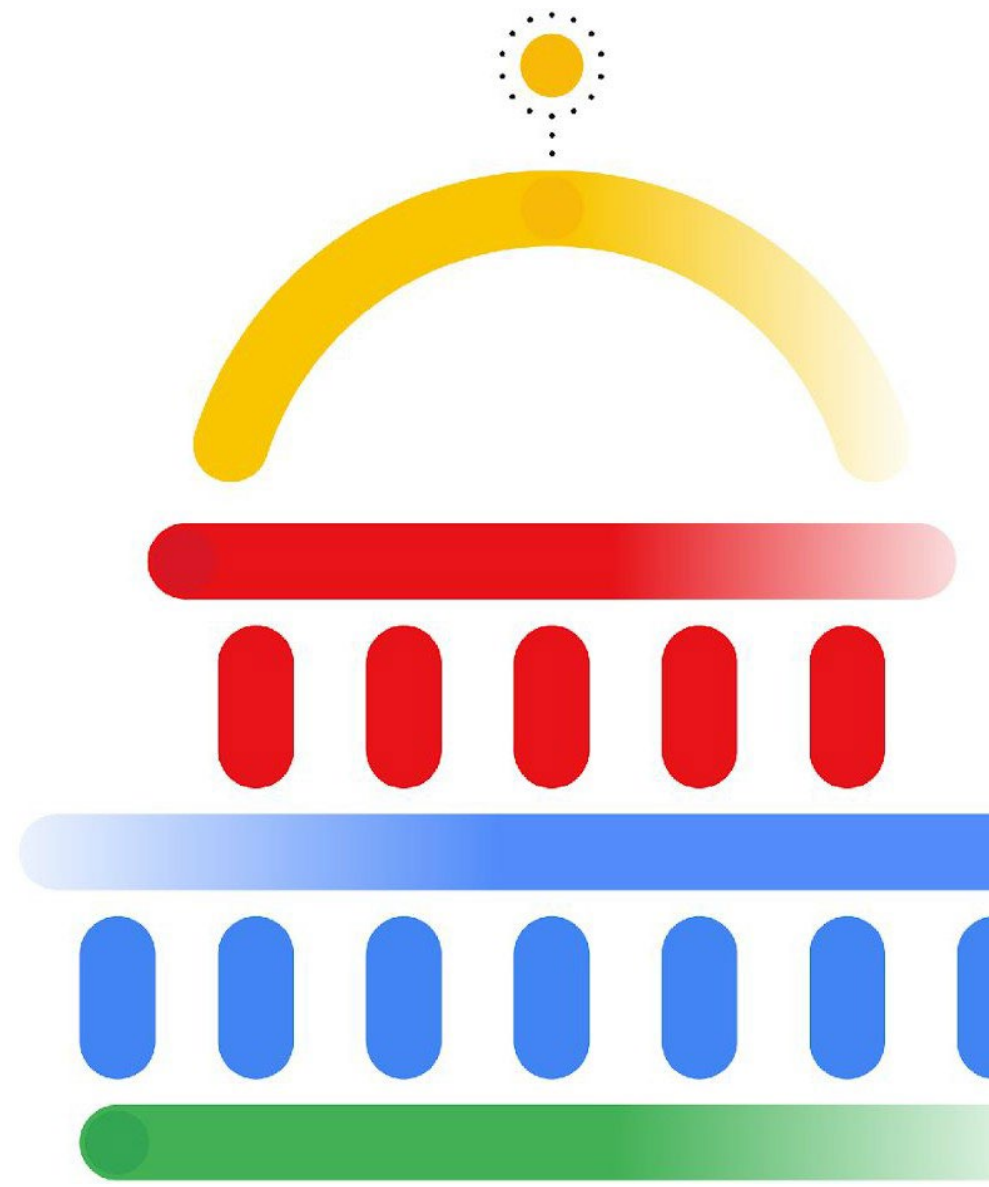
Our mission is to accelerate the development, testing, and interoperability of large complex systems and enable real-time data extraction for analysis and informed decision making.

FishEye's unique Pelagic technology unlocks data from complex systems delivering high-fidelity, high-volume data streams in real-time to stakeholders around the globe.



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Google for DoD



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**Separate
Legal Entity**

**Mission
Understanding**

**Delivery
Expertise**

**Contracting
Know-How**

Proud to Partner with DOD on JWCC



Cloud Platforms

Edge

Google Distributed Cloud (GDC)

Air-gapped offering for private cloud deployments

Classified

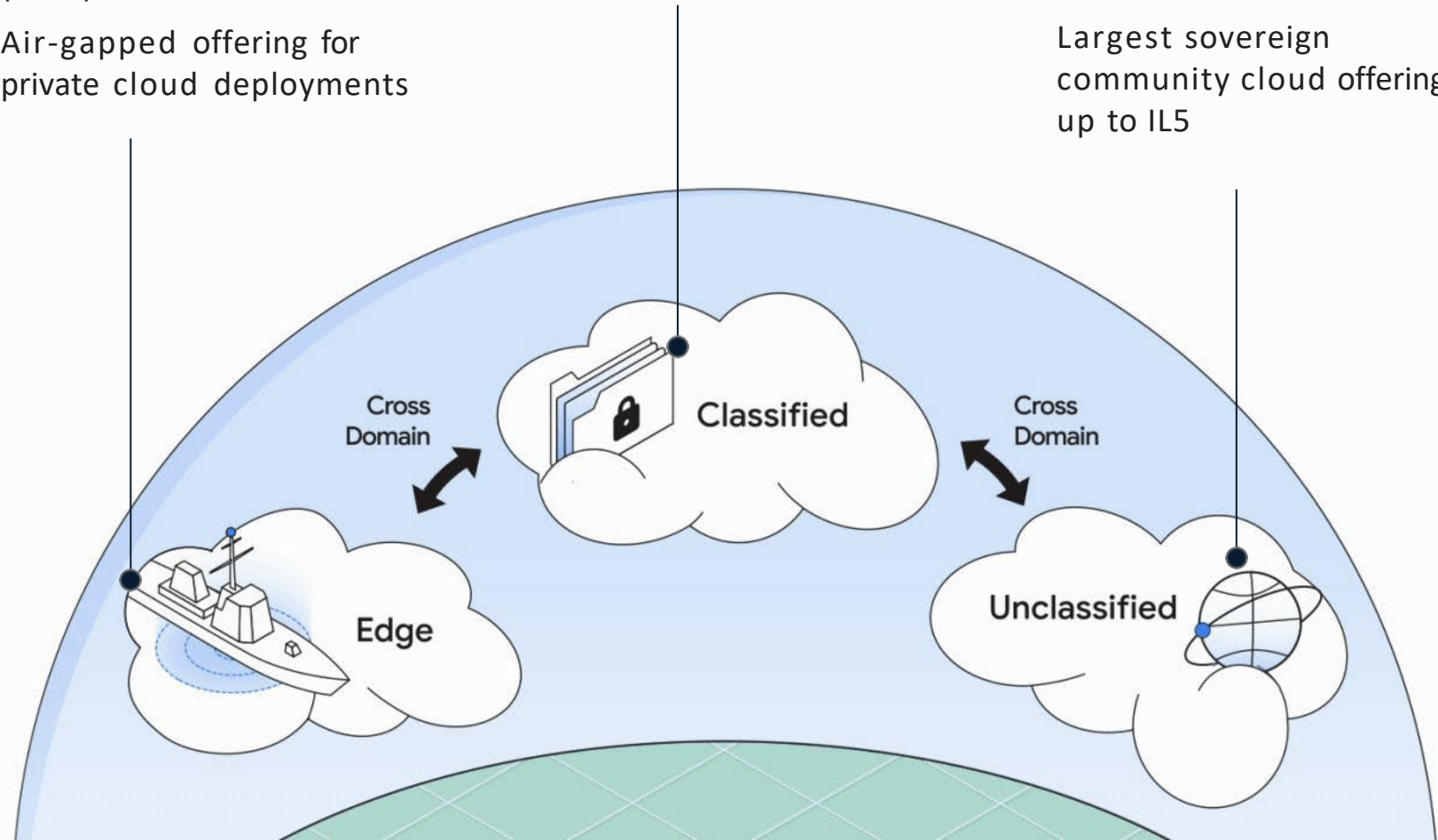
Google Distributed Cloud (GDC)

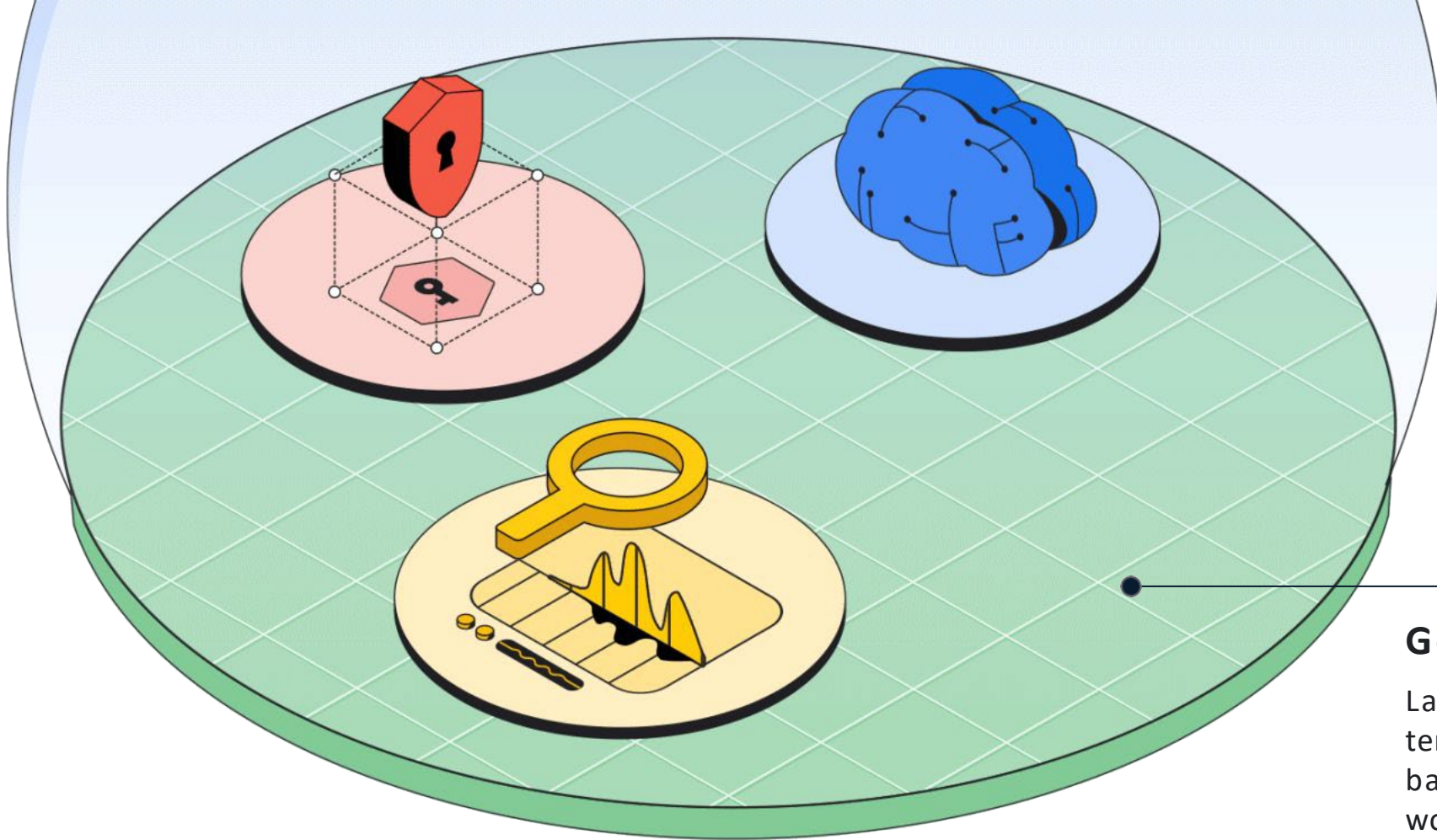
Industry leading tools & capabilities for enterprise use cases

Unclassified

Google Cloud Platform (GCP)

Largest sovereign community cloud offering up to IL5

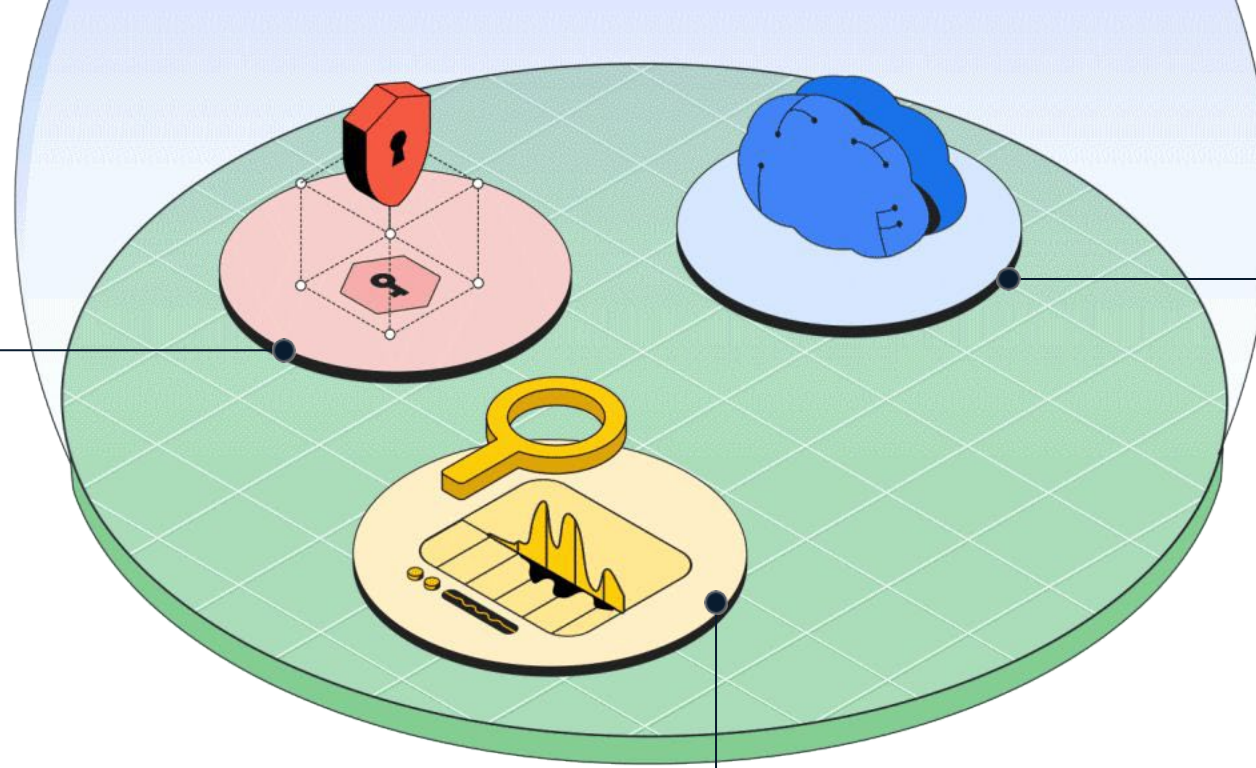




Google Global Network

Largest and most resilient
terrestrial and subsea fiber
backbone carrying 25%+ of the
world's Internet traffic

Global Mesh



Cybersecurity

Best in class SecOps
with Google Threat
Intelligence powered by
Mandiant

Data & Analytics

Comprehensive platform for
ingesting, processing,
warehousing, and analytics led
by BigQuery

Differentiated Tools & Capabilities