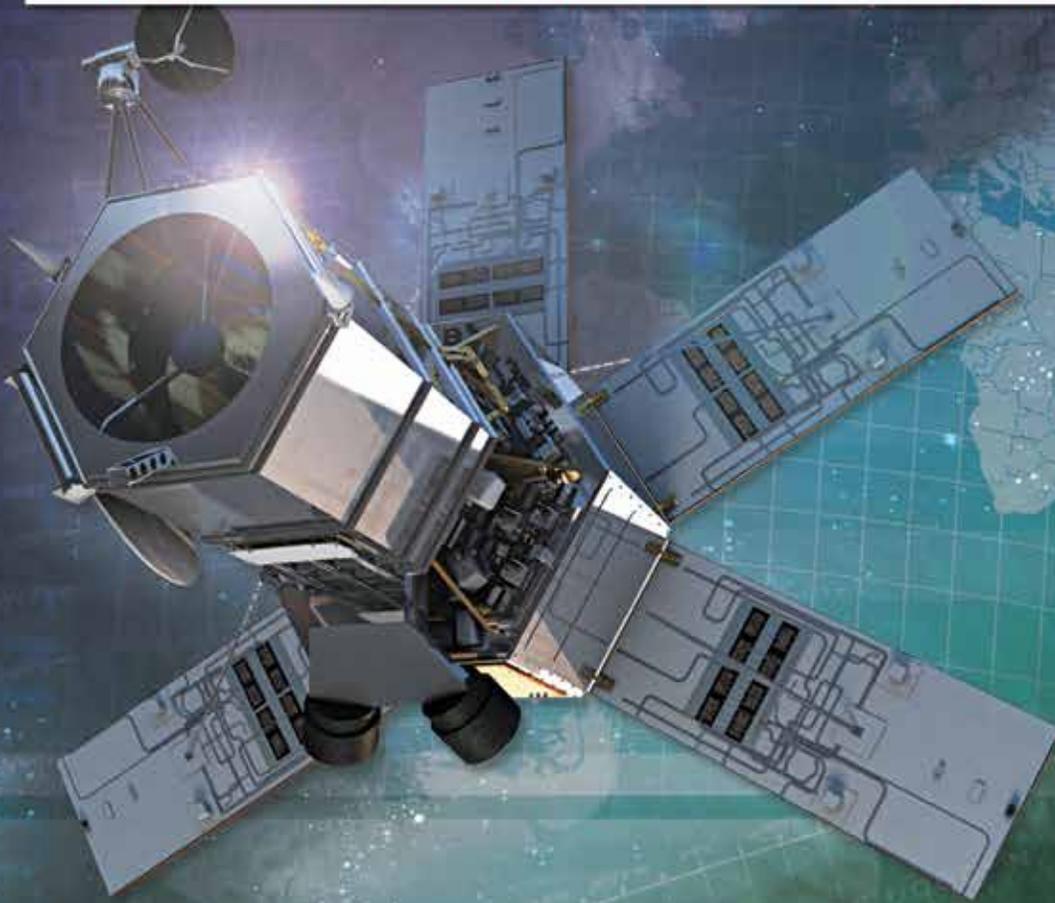


39° 54' N, 116° 24' E

# 2017 GEOINT PORTFOLIO CONFERENCE AND TECHNOLOGY EXPOSITION



## 20-21 SEPTEMBER 2017

## PROGRAM GUIDE

National Reconnaissance Office | J.D. Hill Conference Center



0000° N, 103.0000° E

## GENERAL INFORMATION

### CONFERENCE BADGE

For security reasons, please wear your conference badge at all times. You will not be permitted to enter sessions without it.

### MESSAGE CENTER

If you need to receive telephone messages during the conference, please direct calls to Attendee Registration at 703-808-6757.

### COFFEE/REFRESHMENTS

Coffee and light refreshments will be served in the Exhibit Hall during the conference break periods.

### TECHNOLOGY EXPOSITION

The Exhibit Hall is located directly across from the auditorium in the atrium and breakout rooms.

Companies will feature innovative products and solutions. Time has been allotted throughout the conference to visit the exhibits.

#### Exhibit Hall Hours:

**Wednesday 8:00 AM – 6:00 PM**

(Exhibits will remain open during the Networking Social)

**Thursday 8:00 AM – 11:00 AM**

### NETWORKING SOCIAL

Please join us from 5:00 PM – 6:30 PM in the atrium for the Networking Social.

### QUESTIONS OR CONCERNS

If you have any questions or concerns at any time during the conference, please do not hesitate to speak to an NCSI representative.

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## NATIONAL RECONNAISSANCE OFFICE

14675 Lee Road  
Chantilly, VA 20151-1715

20 September 2017

MEMORANDUM FOR FORUM ATTENDEES

SUBJECT: 2017 NRO GEOINT Portfolio Conference, 20-21 September 2017

The National Reconnaissance Office (NRO) Geospatial Intelligence Systems Acquisition Directorate (GEOINT) is pleased to welcome you to the 2017 GEOINT Portfolio Conference. The theme, *Evolving GEOINT Capabilities Through Innovation and Partnership*, will provide valuable insight into the current and future GEOINT architecture. The conference will focus on current GEOINT capabilities through 2020 and provide insight into the systems' successes and challenges. In addition, it will concentrate on GEOINT advances through persistence, new phenomenologies, resilience, and leveraging commercial capabilities. In light of today's global threats and the dependence on space-based intelligence to monitor, analyze, and understand critical strategic and military developments, this GEOINT Portfolio Conference is crucial to ensure that GEOINT continues to deliver capabilities to the Intelligence Community and Warfighter.

I am excited about the speakers scheduled to participate. They provide many years of experience and will provide an outstanding opportunity to discuss the successes and challenges of the GEOINT architecture. In addition, I hope this event enables attendees to partner across all organizations to further investigate and advance GEOINT capabilities in support of our national security interests.

I welcome your feedback to ensure our future efforts build upon this week's forum. Again, welcome to the NRO and thank you for attending the 2017 GEOINT Portfolio Conference.

Dr. Troy Meink  
Director, Geospatial Intelligence  
Systems Acquisition Directorate

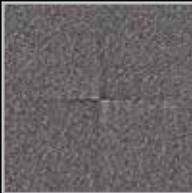
# AGENDA

DAY 1 - 20 SEPTEMBER	
7:15 AM - 8:00 AM	<b>Registration &amp; Breakfast</b>
8:05 AM - 8:30 AM	<b>Administrative &amp; Opening Remarks</b> <i>Mr. Jimmy Comfort, NRO/GEOINT</i>
8:30 AM - 8:40 AM	<b>Keynote Speaker</b> <i>Ms. Betty Sapp, Director, NRO</i>
8:40 AM - 9:10 AM	<b>Overview of Current GEOINT Architecture</b> <i>Dr. Troy Meink, NRO/GEOINT</i>
9:10 AM - 9:40 AM	<b>Program Updates</b> <i>Col Erich Hernandez-Baquero, NRO/GEOINT</i>
9:40 AM - 10:10 AM	<b>Program Updates</b> <i>Col Rob Introne, NRO/GEOINT</i>
10:10 AM - 10:30 AM	<b>BREAK/TECHNOLOGY EXPO</b>
10:30 AM - 10:45 AM	<b>Program Updates</b> <i>Lt Col Sam Little, NRO/GEOINT</i>
10:45 AM - 11:15 AM	<b>Tech Initiatives</b> <i>Mr. Karl Eager, NRO/GEOINT</i>
11:15 AM - 11:45 AM	<b>Congressional Picture</b> <i>Mr. Hayden Milberg &amp; Mr. Collin Lee, Congress</i>
11:45 AM - 1:00 PM	<b>LUNCH/TECHNOLOGY EXPO</b>
1:00 PM - 1:30 PM	<b>Keynote Speaker</b> <i>Ms. Angela Zutavern, Booz Allen Hamilton</i>
1:30 PM - 2:00 PM	<b>Space Protection Strategy/Third Offset</b> <i>Dr. Byron Knight, NRO/SED</i>
2:00 PM - 2:30 PM	<b>GEOINT Operations</b> <i>Mr. Joe Murphy, NRO/MOD</i>
2:30 PM - 3:00 PM	<b>Warfighter Highlights</b> <i>COL Frank Tank, NRO/MID</i>
3:00 PM - 3:15 PM	<b>BREAK/TECHNOLOGY EXPO</b>
3:15 PM - 3:45 PM	<b>NGA Highlights</b> <i>Mr. Justin Poole, Deputy Director, NGA</i>
3:45 PM - 4:15 PM	<b>Analytic Way Forward</b> <i>Mr. Andrew Hayden, NGA</i>
4:15 PM - 4:45 PM	<b>Leveraging Commercial Imagery</b> <i>Mr. Pete Muend, NRO/SED</i>
4:45 PM - 5:00 PM	<b>Closing Remarks</b> <i>Mr. Jimmy Comfort, NRO/GEOINT</i>
5:00 PM - 6:30 PM	<b>NETWORKING SOCIAL</b>

DAY 2 - 21 SEPTEMBER	
7:00 AM - 8:00 AM	Registration & Breakfast
8:00 AM - 8:15 AM	<b>Welcome Back/Opening Remarks</b> <i>Mr. Jimmy Comfort, NRO/GEOINT</i>
8:15 AM - 9:00 AM	<b>Future Architectures</b> <i>Dr. Didi Kuo, NRO/GEOINT</i>
9:00 AM - 9:30 AM	<b>Automatic Target Recognition (ATR)</b> <i>Col Tim Gillespie, NRO/GED</i>
9:30 AM - 10:00 AM	<b>BREAK/TECHNOLOGY EXPO</b>
10:00 AM - 10:30 AM	<b>Keynote Speaker</b> <i>HON James R. Clapper, Former DNI</i>
10:30 AM - 11:00 AM	<b>Keynote Speaker</b> <i>Mr. Chris Quilty, Quilty Analytics</i>
11:00 AM - 11:10 AM	<b>Closing Remarks</b> <i>Mr. Jimmy Comfort, NRO/GEOINT</i>

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How does this... become this?




**Are you ready to test your imagery skills?**

- 1) Go to [www.Northstrat.com/GEOINT2017-Challenge](http://www.Northstrat.com/GEOINT2017-Challenge)
- 2) Download the images for Challenge #1 and Challenge #2
- 3) Apply your skills to answer the questions
- 4) Enter your answers in the fields provided
- 5) Contest ends midnight on September 30th

All participants will be given the answers and techniques to solve the challenges after the contest ends



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## KEYNOTE SPEAKERS

(IN ALPHABETICAL ORDER)



### THE HONORABLE JAMES R. CLAPPER

The Honorable James R. Clapper served as the fourth U.S. Director of National Intelligence (DNI) from August 9, 2010 to January 20, 2017. In this position, Mr. Clapper led the United States Intelligence

Community and served as the principal intelligence advisor to President Barack Obama.

Mr. Clapper retired in 1995 after a distinguished career in the U.S. Armed Forces. His career began in 1961 when he enlisted in the U.S. Marine Corps Reserve and culminated as a lieutenant general in the U.S. Air Force and Director of the Defense Intelligence Agency. His intelligence-related positions over his 32 years in uniform included Assistant Chief of Staff for Intelligence at Headquarters, U.S. Air Force during Operations Desert Shield/Desert Storm, and Director of Intelligence for three combatant commands: U.S. Forces, Korea; Pacific Command; and Strategic Air Command. He served two combat tours during the Southeast Asia conflict, and flew 73 combat support missions in EC-47's over Laos and Cambodia.

Following his retirement, Mr. Clapper worked in industry for six years as an executive in three successive companies with the Intelligence Community as his business focus. He also served as a consultant and advisor to Congress and to the Departments of Defense and Energy, and as a member of a variety of government panels, boards, commissions, and advisory groups. He was a senior member of the Downing Assessment Task Force which investigated the Khobar Towers bombing in 1996, was vice chairman of a commission chaired by former Governor Jim Gilmore of Virginia on the subject of homeland security, and served on the NSA Advisory Board.

Mr. Clapper returned to the government two days after 9/11 as the first civilian director of the National Imagery and Mapping Agency (NIMA). He served in this capacity for almost five years, transforming it into the National Geospatial-Intelligence Agency (NGA) as it is known today.

Prior to becoming the Director of National Intelligence, Mr. Clapper served for over three years in two Administrations as the Under Secretary of Defense for Intelligence, where he served as the principal staff assistant and advisor to the Secretary and Deputy Secretary on intelligence, counterintelligence, and security matters for the Department. In this capacity, he was also dual-hatted as the Director of Defense Intelligence for the DNI.

Mr. Clapper earned a bachelor's degree in government and politics from the University of Maryland, a master's degree in political science from St. Mary's University, San Antonio, Texas, and an honorary doctorate in strategic intelligence from the then-Joint Military Intelligence College.

His awards include three National Intelligence Distinguished Service Medals, two Defense Distinguished Service Medals, the Air Force Distinguished Service Medal, the Coast Guard's Distinguished Public Service Award, three Department of Defense Distinguished Civilian Service Awards, the Presidentially-conferred National Security Medal, and many other U.S. civilian and military, as well as foreign government, awards and decorations.

He is married to the former Susan Terry, and they have two grown children and four grandchildren.



### MR. JAMES L. "JIMMY" COMFORT Deputy and Technical Director GEOINT, NRO

Mr. Jimmy Comfort, a member of the Defense Intelligence Senior Level Service, is the Deputy and Technical Director of the Geospatial Intelligence Systems Acquisition Directorate (GEOINT) at the National Reconnaissance Office (NRO). Previously, he served the Deputy Director for the Electro-Optical System Program Office of Imagery Intelligence Systems Acquisition Directorate (IMINT), NRO. He was also the Chief System Engineer for a National Space Program in the Systems Engineering Office of IMINT, NRO. Before coming to the NRO, he was the Squadron Commander for the 3rd Space Launch Squadron, Cape Canaveral Air Force Station (AFS), Florida, where he commanded a 102-person operations squadron that conducted all Titan IV processing and space launch operations for Defense Support Program, MILSTAR and NRO Satellites.

Colonel (Ret) Comfort entered the Air Force in 1985 as a graduate of Georgia Tech's Reserve Officer Training Corp program. His operations experience includes seven different systems. Col (Ret) Comfort has been the Operations Officer for the 3rd Command and Control Squadron at Offutt Air Force Base (AFB), Nebraska, the 13th Space Warning Squadron at Clear Air Force Station (AFS), Alaska, and the 1st Space Launch Squadron at Cape Canaveral AFS, Florida.

His staff experience includes tours at the MILSATCOM Joint Program Office, where he was a Space Systems Test Manager, MILSTAR Flight Operations Director and Chief, Advanced Network Planning and Control. He has served at Headquarters Air Force Space Command as Advanced MILSATCOM Command Lead and Executive Officer to the Director of Requirements. Col (Ret) Comfort also served at the Pentagon in Headquarters US Air Force as Chief Wargaming and Experimentation Integration Branch and Executive Officer to the Director of Command and Control. Col Comfort retired in 2013 and was appointed a Defense Intelligence Senior in July 2013.

He is married to Colonel (Ret) Denise Comfort and they have two sons, Cameron, 24 and Greyson, 21.

**DR. TROY E. MEINK****Director GEOINT, NRO**

(U) Dr. Troy E. Meink was appointed Director, Geospatial Intelligence Systems Acquisition (GEOINT) at the National Reconnaissance Office (NRO) in April 2017. As the Director of GEOINT, Dr. Meink is responsible for the successful execution of all national geospatial intelligence satellite systems acquisitions within the NRO with a budget of more than \$15 billion. His responsibilities span the design, acquisition, launch, deployment and operations support for current and future GEOINT constellations. In support of these efforts, Dr. Meink manages a government workforce of around 200, and a support contractor and industrial workforce of several thousand. Of equal importance to these responsibilities, he is also charged with sustaining mission partner relationships between federal agencies and representing NRO programs to Congress, the Director of National Intelligence, the Department of Defense, the Office of Management and Budget and the Community Management Staff.

(U) Dr. Meink is from Lemmon, South Dakota and entered the Air Force in 1988 through the ROTC program at South Dakota State University. His assignments have included operations and training, systems engineering, research and development, and program management of major defense acquisition programs. Dr. Meink began his career as a KC-135 Tanker Navigator and Instructor and then a lead test engineer for the design and evaluation of ballistic missile test vehicles for the Missile Defense Agency. As an Air Force Civilian, he managed multiple next generation joint research and development programs transitioning global space capabilities, optical sensors, and advanced structures. He subsequently led development for the Military Satellite Communications Joint Program Office and served as program director for the Transformational Satellite Communications System. He was Director, Communications Directorate, Office of the Assistant Secretary of Defense/Networks and Information Integration, and the Director, Signal Intelligence Systems Acquisition, National Reconnaissance Office. Dr. Meink was then assigned to the Department of the Air Force as the Undersecretary of the Air Force for Space and Director, Executive Agent for Space Staff in Washington, D. C. His previous assignment was the Assistant Director of National Intelligence for Systems and Resource Analyses. In this capacity, he served as the DNI's principal staff advisor on matters pertaining to systems analyses, cost analyses and program evaluation.

**MR. JUSTIN C. POOLE****Deputy Director, NGA**

Mr. Justin Poole is the seventh Deputy Director of the National Geospatial-Intelligence Agency (NGA). As deputy director of NGA, he assists the director in leading the agency and managing the day to day operations of NGA and the National System for Geospatial-Intelligence. He became the deputy director on Aug. 10, 2017, after more than 26 years of service with NGA and its predecessor organizations.

Mr. Poole previously served concurrently as NGA's Content Portfolio Manager and the Director of Source, responsible for creating, collecting, and brokering authoritative GEOINT content and services to support national security priorities.

Justin began his career as a cartographer and geospatial analyst with the defense Mapping Agency, one of NGA's predecessor organizations, in 1991. He held several tradecraft and system architecture developmental positions before moving into analytic and technical management positions.

Mr. Poole joined the Senior Executive Service in 2002 and has successively served as the Deputy Director for Mission Management, National Counterterrorism Center, his first Joint Duty Assignment (JDA); Deputy Program Manager for the NSG, NGA; Associate Deputy Director of IMINT, National Reconnaissance Office, his second JDA; and Director, Xperience Directorate, NGA.

Mr. Poole holds a Bachelor of Science degree in geography (cartography) from the University of Maryland and is a graduate of the Senior Managers Program at the Harvard Kennedy School. He is a recipient of numerous awards and citations including the Meritorious Presidential Rand award, Superior Civilian Service Medal and NGA's Challenger Award.

### MR. CHRIS QUILTY

#### President, Quilty Analytics LLC

Mr. Chris Quilty is the president of Quilty Analytics is an independent research and consulting firm that provides strategy, competitive benchmarking, financial analysis, and investment diligence on all aspects of the Satellite & Space industry.

Prior to establishing Quilty Analytics in 2016, Chris served as a sell side research analyst with Raymond James for 20 years, publishing hundreds of company-specific, macro, sector, and thematic research reports on the industrial, defense, space, wireless, and communications industries. Chris is widely-acknowledged as the leading Wall Street analyst on the Satellite & Space sector, and has participated in 30+ capital markets transactions over the past five years valued at over \$2.5 billion

Mr. Quilty received a BS degree in Systems Engineering from the United States Naval Academy in 1989 and an MBA from the University of Chicago in 1994.



### MS. BETTY SAPP

#### Director, NRO

Ms. Betty Sapp was appointed the 18th Director of the National Reconnaissance Office (DNRO) on July 6, 2012. The DNRO provides direction, guidance, and supervision over all matters pertaining to the NRO and executes other authorities specifically delegated by the Secretary of Defense and the Director of National Intelligence.

Ms. Sapp began her government career as a United States Air Force officer in a variety of acquisition and financial management positions, including: business management positions in the NRO; Program Element Monitor at the Pentagon for the MILSTAR system; Program Manager for the FLTSATCOM program at the Space and Missile Systems Center in Los Angeles; and manager of a joint-service development effort for the A-10 engine at Wright-Patterson Air Force Base in Dayton, Ohio.

In 1997, Ms. Sapp joined the Central Intelligence Agency. She was assigned to the NRO where she served in a variety of senior management positions. In 2005, she was appointed the Deputy Director, NRO for Business Plans and Operations. As such, she was responsible for all NRO business functions, including current-year financial operations, preparation of auditable financial statements, business systems development, budget planning, cost estimating, contracting, as well as all executive and legislative liaison activities.

In May 2007, Ms. Sapp was appointed the Deputy Under Secretary of Defense (Portfolio, Programs and Resources), Office of the Under Secretary of Defense for Intelligence. In this position, she was responsible for: executive oversight of the multibillion-dollar portfolio of defense intelligence-related acquisition programs; the planning, programming, budgeting and execution of the multibillion dollar Military Intelligence Program; and the technology efforts critical to satisfying both current and future warfighter needs.

In April 2009, Ms. Sapp was appointed the Principal Deputy Director, National Reconnaissance Office (PDDNRO). As PDDNRO, she provided overall day-to-day management of the NRO, with decision responsibility as delegated by the DNRO.

Ms. Sapp holds a Bachelor of Arts, and an MBA, Management, both from the University of Missouri, Columbia. She is also Level III certified in Government Acquisition and was certified as a Defense Financial Manager. Ms. Sapp is a native of St. Louis, Missouri.



## Advanced Computer Concepts

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Advanced Computer Concepts (ACC) provides best of breed IT Solutions and Network Engineering services to the Public Sector market. As a Small Woman Owned Business ACC focuses on areas such as Cybersecurity, Virtualization, Cloud Computing, and Big Data.

## Airbus

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Airbus has exclusive commercial access to optical and radar satellites, including: Pléiades, SPOT, TerraSAR-X and TanDEM-X, combined with broad applications experience, the company delivers an extensive portfolio spanning the entire geo-information value chain.

## Amazon Web Services

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Amazon Web Services (AWS) Worldwide Public Sector helps government, education, and nonprofit customers deploy cloud services to reduce costs, drive efficiencies, and increase innovation across the globe. With AWS, you only pay for what you use, with no up-front physical infrastructure expenses or long-term commitments.

## BAE Systems, Inc.

Rick Racine  
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BAE Systems is a global defense and security company delivering a full range of products and services for air, land, and naval forces, along with advanced electronics, security, and information technology solutions. BAE Systems Geospatial eXploitation Products (GXP) delivers powerful software solutions to deliver highly accurate geospatial and intelligence data.

## CDW Government

Andy Altman  
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andyalt@cdwg.com

CDW Government provides Solutions and Services to address all of your organizations IT needs. From extensive Live Feed Collaboration Tools that allow for real time planning and problem solving to Cloud Solutions, Enterprise Data Solutions and Endpoints, CDW Government is here to advise and assist you from beginning to end.

## Compusult Systems Inc.

James Moreland  
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Compusult Systems Inc. (CSI) provides geospatial solutions for the national security sector. Our offerings include open standards, interoperable software for searching, acquiring, exploiting, and managing geospatial information as well as applications for mobile devices that allow easy access to geospatial content and services through secure wireless communications to the cloud.

**Cyviz**

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Brian Robinson  
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Decision Lens is cloud-based software that enables a comprehensive business process for strategically identifying, prioritizing, analyzing, and measuring which investments, projects, and resources will deliver the highest returns. Through advanced analytics and flexible, custom visualizations and scenarios, organizations can make selections and immediately see the trade-offs to move forward with confidence.

**Forcepoint, LLC**

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ForcePoint's solutions support the unique and complex missions and objectives undertaken by the people who protect national security. Our people-centric solutions focus on securing and simplifying the intersection of technology, data and human beings, delivering solutions that work WITH and FOR your users to effectively and efficiently accomplish their missions.

**GeoNorth Information Systems, LLC**

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GeoNorth Information Systems, LLC is a geospatial imagery services provider specializing in collection and processing of remotely sensed information, enterprise geospatial, and custom application and web development. Established in 1999, we are an Alaskan Native Corporation (ANC) and Small Business Administration 8(a) firm. Markets we serve include: defense, energy, and environmental among others.

**Global Knowledge**

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Global Knowledge is the world's leading learning services and professional development solutions provider. We deliver learning solutions to support customers as they adapt to key business transformations and technological advancements that drive the way that organizations around the world differentiate themselves and thrive. Our learning programs, whether designed for a global organization or an individual professional, help businesses close skills gaps and foster an environment of continuous talent development.

**GSA FEDSIM**

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GSA FEDSIM is a leading, government-wide assisted acquisition organization that empowers federal agencies through the acquisition process. Each client receives tailor-made strategies, dedicated customer service, and technical expertise. Our integrated team approach enables clients to focus on what is most important, accomplishing their agency mission.

## IBM

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IBM Data Science Experience (DSx) is an interactive, collaborative, cloud-based environment where data scientists can use open source and IBM cognitive capabilities to activate their insights. DSX combines the most popular open source data science tools (Jupyter Notebooks, Spark, RStudio, more) enabling access to common data, eliminating the problem of siloed tools.

## Informatica Federal Operations



Roger Campbell  
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Informatica Federal Operations Corporation provides a wide variety of software offerings for data integration, data quality, data security, big data, cloud integration, master data management, and other solutions.

## KEYW

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csistrunk@keywcorp.com

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## OGSystems

Aarish Gokaldas  
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OGSystems is a disruptive GEOINT provider. We are technology enablers. Immersing in our clients' mission needs, we work together to combine our vast experience with the best technologies and partnerships to get you from problem to solution - faster.

## Orbis Technologies, Inc.

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## Palo Alto Networks

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Palo Alto Networks is the next-generation security company maintaining trust in the digital age by helping tens of thousands of organizations worldwide prevent cyber breaches. Our innovative security platform with game-changing technology safely enables applications, users and content, empowering businesses and government agencies to securely and efficiently move their organizations forward. Find out more at [www.paloaltonetworks.com](http://www.paloaltonetworks.com).

**PTFS**

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PTFS has an enterprise Geospatial Content Management System (GeoCMS) for managing unstructured (born digital and digitized formats) files that has been certified by NGA for handling imagery files. It is deployed at NGA and the AGC. PTFS also operates a digitization service bureau and is certified for safeguarding TS/SCI materials.

**Quantum Corporation**

Jeff Dunkelberger  
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Intelligence agencies are under pressure more than ever to make sensitive data more secure, less complex to manage and access, while making it easier to protect. To meet these requirements, intelligence agencies have turned to the cloud, specifically C2S. Quantum solutions are CAP-compliant and fully support S3 and Glacier platforms.

**Raytheon - Secure Information Systems**

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Secure Information Systems (SIS) is a mission area under Raytheon Space and Airborne Systems with extensive expertise and capabilities in cryptographic development and production. SIS's most recent offering is the Tri-speed, Layer 2 Ethernet Encryptor, KG-350. The KG-350 and its game changing technology, like being the first Tri-Speed, Layer 2 Network encryption capable of supporting speeds of 100Mbps, 1Gbps and 10Gbps, all in one platform and our KG-355 that will support 100Gps speed.

**Security Engineered Machinery**

Todd Busic  
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Security Engineered Machinery (SEM), is the largest direct supplier of information destruction equipment and services in the United States for both federal, state, and local government customers as well as commercial entities of all sizes. From paper to hard disk drives to solid state devices to optical media and everything in between, SEM has a solution that can eliminate and/or sanitize both Classified/Top Secret Information as well as Controlled Un-Classified (CUI) and/or Personally Identifiable Information (PII).

**Spectra Logic**

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Spectra Logic develops deep storage solutions that solve the problem of long term storage for business and technology professionals dealing with exponential data growth. Spectra enables affordable, multi-decade data storage and access by creating new methods of managing information in all forms of deep storage.

**Splunk, Inc.**

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Splunk takes your machine data and make sense of it. IT sense. Security sense. Business sense. Common sense. Splunk products deliver visibility and insights for IT and the business. Splunk was founded to pursue a disruptive new vision: make machine data accessible, usable, and valuable to everyone.

### **Tellabs**

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Tellabs is leading the future of networking with access solutions for today, poised to deliver services for the future. Tellabs' sole focus is to deliver secure, scalable, sustainable access solutions to optimize network performance for enterprise, government and telecom service providers. For more information, visit [www.tellabs.com](http://www.tellabs.com).

### **Ursa Space Systems, Inc.**

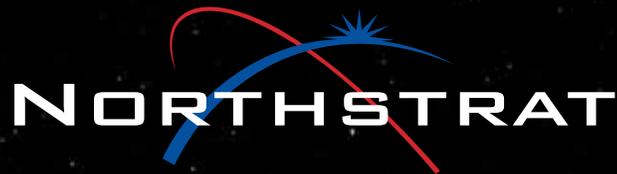
Julie Baker  
607-216-6234  
julie@ursaspace.com

Ursa delivers global economic insights to government agencies and NGOs, as well as energy and financial enterprises, providing a reliable information source about areas of the world that are traditionally opaque. Ursa specializes in access, aggregation and analytics of global commercial satellite-based radar.

### **Tyvak Nano Satellite Systems, Inc.**

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Tyvak is an industry-leading small satellite manufacturer and services provider, trusted by NASA, the DoD and international commercial customers to achieve mission success on time and within budget. Tyvak engineers tailor advanced small sat solutions by leveraging industry expertise and low-cost operating infrastructure.



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