

SPACE AND MISSILE SYSTEMS CENTER

INDUSTRY DAY & TECH EXPO

NEW OPPORTUNITIES IN THE SPACE WARFIGHTING CONSTRUCT

OCTOBER 18-19, 2017

GORDON CONFERENCE CENTER, LOS ANGELES AFB



PROGRAM GUIDE

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.

LUNCH

Lunch has been provided to all attendees on 18 October, compliments of Lockheed Martin.

TECHNOLOGY EXPOSITION

The Technology Exposition will take place on 19 October from 10:00 to 14:00. Companies will feature innovative products and solutions. Please be sure to network and visit with the exhibiting companies.

PAYMENTS

If you need to settle your registration fee or would like a hard copy of your receipt, please email Brianna Taylor at Taylor@ncsi.com.

QUESTIONS OR CONCERNS

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

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DEPARTMENT OF THE AIR FORCE
SPACE AND MISSILE SYSTEMS CENTER (AFSPC)
LOS ANGELES AIR FORCE BASE, CALIFORNIA



18 October 2017

Lieutenant General John F. Thompson
Commander, Space and Missile Systems Center
483 North Aviation Boulevard
El Segundo, CA 90245-2808

Dear Industry Day Attendees,

Welcome to Los Angeles Air Force Base, home of the Space and Missile Systems Center – the world’s premier space acquisition center of excellence. The men and women of Team SMC are honored and excited to host the 2017 SMC Industry Day and Tech Expo. The next two days provide our industry partners an outstanding opportunity to showcase the latest innovative products and services.

As we address a diverse array of topics affecting our Center, Air Force Space Command, and the space acquisition community writ large, discussions will focus on upcoming opportunities in the SWC over the next five years. Rest assured, Team SMC is eager to ensure everyone has a productive and memorable experience!

During your visit, please let me know if you need any assistance or have any issues whatsoever. Lastly, your feedback is much appreciated; thank you in advance for completing the Industry Day feedback sheet. I hope you’re as excited as I am about the next two days. Let’s get started!

Sincerely

A blue ink signature of John F. Thompson.

JOHN F. THOMPSON
Lieutenant General, USAF

INTEGRITY, SERVICE, EXCELLENCE



DAY 1 - 18 OCT 2017

07:30 – 08:30	Check-In & Continental Breakfast
08:30 – 08:40	Welcome & Administrative Remarks
08:40 – 09:10	PEO – Opening Remarks <i>Lt Gen John F. Thompson</i>
09:10 – 09:40	HQ AFSPC Guest Speaker <i>Maj Gen Catherine A. Chilton</i>
09:40 – 10:00	Program Integration (SMC/PI) <i>Mr. Cordella A. Delapena, Jr.</i> <i>PI Emphasis</i>
10:00 – 10:20	BREAK
10:20 – 11:00	Remote Sensing Directorate Portfolio Presentation <i>Col Dennis O. Bythewood</i> <i>RS's Way Forward for SWC</i>
11:00 – 11:20	Space Defense Task Force (SMC/SDTF) <i>Col Kevin B. Massie</i>
11:20 – 12:50	LUNCH
12:50 – 13:30	MILSATCOM Portfolio Program Presentation <i>Mr. Robert E. Tarleton</i> <i>MC's Way Forward for SWC</i>
13:30 – 14:00	Advanced Systems and Development Directorate Overview <i>Col John S.R. Anttonen</i> <i>AD's Way Forward for SWC</i>
14:00 – 14:35	Space Superiority Directorate Portfolio Presentation <i>Col Wallace R. Turnbull, III</i> <i>SY's Way Forward for SWC</i>
14:35 – 14:50	BREAK
14:50 – 15:30	Launch Enterprise Directorate Portfolio Presentation <i>Dr. Claire E. Leon</i> <i>LE's Way Forward for SWC</i>
15:30 – 16:10	Global Positioning System Directorate Portfolio Presentation <i>Mr. Michael J. Dunn</i> <i>GP's Way Forward for SWC</i>
16:10 – 16:40	Range and Network Directorate Presentation <i>Col Thomas R. Rock, Jr.</i> <i>RN's Way Forward for SWC</i>
16:40 – 16:55	Wrap-Up

DAY 2 - 19 OCT 2017	
07:30 – 08:30	Check-In & Continental Breakfast
08:30 – 08:35	Welcome & Logistics
08:35 – 09:15	Operationally Responsive Space Directorate Presentation <i>Lt Col Christopher J. Kadala</i> <i>ORS's Way Forward for SWC</i>
09:15 – 10:05	SMC Panel: Shortening the Contract Award Timeline <i>Mr. David C. Block and Mr. Ronald A. Ortiz</i>
10:05 – 10:30	PEO Open Q&A with Industry <i>Lt Gen John F. Thompson</i>
10:30 – 10:40	Wrap-Up

THE TECHNOLOGY EXPO WILL BE FROM 10:00 – 14:00.



SPEAKER BIOS

(IN ALPHABETICAL ORDER)



COLONEL JOHN S.R. ANTTONEN

Colonel John S.R. Anttonen serves as Director, Advanced Systems & Development Directorate and Commander, Space & Missile Systems Center, Detachment 1, Kirtland Air Force Base, N.M. The directorate's mission is to deliver responsive space capabilities to users across the National Security Space community and conduct developmental planning, science & technology, and pre-systems acquisition for the Space & Missile Systems Center. Colonel Anttonen leads a combined team of 740+ military, government civilians, and contractors in four geographically separated units responsible for development, acquisition, demonstration, launch, test and operations of DOD and civil space systems.

Prior to this position Colonel Anttonen was the Director of the Operationally Responsive Space Office, Kirtland AFB, NM, overseeing the development, demonstration, and fielding of space capabilities focused on timely satisfaction of Joint Force Commanders' needs.

Colonel Anttonen was commissioned in 1989 through the ROTC program at Oregon State University where he studied Mechanical Engineering. During his career, Colonel Anttonen has served in a variety of space research and development positions including Propulsion Development, Test Resource Management, Military Spaceplane Technology Development, DARPA Deputy Program Manager for the Falcon Spacelift Program, and at the National Reconnaissance Office.

Colonel Anttonen is a graduate of the Air Force Institute of Technology at Wright-Patterson Air Force Base, Ohio, where he earned a Doctorate in Aeronautical Engineering. His dissertation was entitled "Techniques for Reduced Order Modeling of Aeroelastic Structures with Deforming Grids". In 2007, he attended the prestigious Industrial College of the Armed Forces in Washington DC where he earned Distinguished Graduate honors and the Department of Homeland Security award for Excellence in Research for his paper entitled "The Three Computer War".

Colonel Anttonen was deployed twice as a United Nations Ballistic Missile Expert for Arms Control to Iraq. Additionally, he was deployed in support of Operation Enduring Freedom and served in the Office of Security Assistance, Logistics in Kabul, Afghanistan.

Colonel Anttonen is married to the former Dee C. Peters from Reedsport, Oregon. They have two children, John and Christina.



MR. DAVID C. BLOCK, GG15

Mr. David C. Block is the Acting Director of Contracting for the Space and Missile System Center (SMC) and the Director of Contracts for the Global Positioning Satellite (GPS) Division at SMC, Los Angeles Air Force Base, California. He oversees a staff of approximately 300 contracting professionals. The Directorate is responsible for the planning and execution of all contract actions to support the SMC programs valued at \$60 billion.

Mr. Block entered federal government service in April 1981 as a Contract Specialist at the Sacramento Air Logistics Center, McClellan AFB, California. He started as a Copper Cap and rotated through the staff and line contracting positions. In June 1987, he transferred to the Naval Ocean System Center in San Diego, California, where he was responsible for the administration of range services contracts, engineering and scientific service contracts and research and development contracts in support of the Underwater Surveillance and Anti-Submarine Warfare Department.

In November, 1987, he was promoted to the Chief of Contracts for Specialized Contracting, Sacramento Air Logistics Center, Sacramento, California. He was responsible for all contract actions in support of the F-117 Stealth Fighter and other classified programs. In December of 1998, he transferred to the Space and Missile Center at Los Angeles AFB, California. He has been the Contracting Officer for Space-Based Infrared Radar System (SBIRS)-High, Contracting Officer and Deputy Director of Contracts for the Space Based Radar, the Acting Director of Contracts for SBIRS and the Director of Contracts for MILSATCOM. He completed Advanced Program Management at the Defense Acquisition University in 2001 and completed his Masters Degree in Management in 2002. Based on his extensive experience in Major Systems Acquisition and in Sustainment Contracting, he has presented several workshops for the National Contract Management Association, both at the local level and at the World Congress in Phoenix.



COLONEL DENNIS O. BYTHEWOOD

Colonel Dennis O. Bythewood is the Special Assistant to the Director, Remote Sensing Systems Directorate, Los Angeles AFB, CA.

Prior to assuming this role, he was Commander of the 50th Operations Group, Schriever AFB, CO, where he was responsible for more than 1,000 military and Department of Defense civilian personnel serving in six squadrons and one detachment. These units perform around-the-clock global satellite operations on more than 60 satellites across diverse orbital regimes, providing warfighters and other users worldwide with position, navigation and timing capabilities; military satellite communications; intelligence, surveillance and reconnaissance products; and environmental and space situational awareness.

Colonel Bythewood received his commission in 1992 upon graduating from the University of Vermont with a degree in electrical engineering. His career has included numerous acquisitions and satellite operations positions in Air Force Space Command, Air Force Materiel Command and the National Reconnaissance Office.



**MAJOR GENERAL
CATHERINE A. CHILTON**

Major General Catherine A. Chilton is the mobilization assistant to the Commander, Air Force Space Command, Peterson Air Force Base, Colorado.

General Chilton entered the Air Force in 1981 through the Reserve Officer Training Corps program and was assigned as a test director in the 4950th Test Wing, Wright-Patterson AFB, Ohio. After completing graduating from Test Pilot School as a flight test engineer in 1984, she served in a variety of key positions supporting the testing and evaluation of the flutter characteristics of the F-16, flying qualities of the A-10, and a variety of air-to-ground and air-to-air munitions test programs. In 1989, the general transitioned to the Air Force Reserve individual mobilization augmentee program where she saw service at the San Antonio Air Logistics Center, Texas; Schriever AFB, Colorado; Hanscom AFB, Massachusetts; Headquarters U.S. Air Force; the Missile Defense Agency, Washington, D.C.. She served as the Director, Air, Space and Information Operations, Headquarters Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio; and she has served as the mobilization assistant to: the Commander, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio; Superintendent, U.S. Air Force Academy, Colorado Springs, Colorado; and to the Military Deputy, Office of the Assistant Secretary of the Air Force for Acquisition, Washington, D.C.

Prior to her current assignment, she was the mobilization assistant to the Under Secretary of the Air Force, Washington, D.C.



MR. CORDELL A. DELAPENA, JR.

Mr. Cordell DeLaPena is the Director, Program Management and Integration Directorate, Space and Missile Systems Center, Air Force Space Command, Los Angeles Air Force Base, CA. He advises the Air Force Program Executive Officer for Space on weapon system management, acquisition, integration and analysis. He develops and deploys policies, strategies, processes, and tools for these functions across the Space and Missile Systems Center. He is responsible for the training and equipping of over 600 military and civilian program managers, executing \$6 billion annually.

Mr. DeLaPena entered the Air Force in 1985 after receiving his commission through Officer Training School. His initial assignments included aircraft modification and test management responsibilities for the 4950th Test Wing, the Aeronautical Equipment Systems Program Office, and Armstrong Laboratories. He then held program manager positions with the Airborne Warning and Control System Program Office and the National Reconnaissance Office. As the transition manager at a space operations site, he was responsible for the integration and readiness of a new imaging capability. He held staff positions with the Air Force Program Executive Officer for Command & Control and Combat Support, and the Under Secretary of the Air Force. He led the development of integrated Intelligence, Surveillance, and Reconnaissance (ISR) Architectures for the National Security Space Architect's Office. He then served on the staff for the Under Secretary of Defense for Intelligence as the director for airborne ISR. He was the 653d Materiel Group Commander, Senior Materiel Leader for the Airborne Network Division, and the Senior Materiel Leader for the ACAT 1D Family of Advanced Beyond-Line-of-Sight Terminals Program at Hanscom AFB. In 2014, he retired from active duty in the rank of Colonel and entered civil service as a member of the Senior Executive Service.

Mr. DeLaPena is a graduate of the Defense Systems Management College's Executive Program Manager Course. He is a designated member of the Defense Acquisition Workforce and is certified Level III in Program Management and Systems Planning, Research, Development, and Engineering.



SPEAKER BIOS

(IN ALPHABETICAL ORDER)



MR. MICHAEL J. "MIKE" DUNN

Mr. Michael J. Dunn is the Technical Director, Global Positioning Systems (GPS) Directorate, Space and Missile Systems Center, Air Force Space Command, Los Angeles Air Force Base, Calif. He serves as the primary technical advisor to the GPS Director. Mr.

Dunn oversees the design, development, acquisition, integration, and testing of critical GPS space systems, operational control systems, and user equipment systems to provide sustained and enhanced position, navigation, and timing information to warfighters and civil users worldwide.

Mr. Dunn was commissioned in the Air Force as a graduate of the U.S. Air Force Academy and served 30 years. In his last military assignment, he was Director of Launch Programs where he led acquisition, engineering, and operational support for Titan II/IV, Atlas IIA/IIAS/III, and Delta II launch system families, plus Centaur and Inertial Upper Stages. He certified the flightworthiness of each vehicle and served as Air Force mission director. His government and industry team set a record 33 consecutive mission successes. Mr. Dunn previously served as the GPS Space Group Director, leading satellite development, launch and on-orbit support.



MR. THOMAS A. FITZGERALD

Mr. Thomas A. Fitzgerald is a member of the Senior Executive Service. He is the Director of Engineering, Space and Missile Systems Center, Air Force Space Command, Los Angeles Air Force Base, CA. He is presently serving as SMC Executive

Director. Mr Fitzgerald leads a team of military, government civilian and contractors who are responsible to the SMC Commander for the quality of all engineering, technical, architecting, test/evaluation, and mission assurance activities for military space and missile programs. He provides the Center Commander, Program Offices, Program Executive Officer and external customers with engineering support in the form of manpower, policy, processes, tools and advice. He is responsible for organizing, training, equipping and providing policy and mentorship for military and civilian space and missile engineers and information protection personnel executing \$8 billion annually. He provides oversight of the system and traditional engineering activities for SMC in close collaboration with other National Security Space stakeholders and his peers throughout OSD, the AF Secretariat, AF Space Command and Air Force Materials Command.

Mr. Fitzgerald was commissioned into the Air Force in 1971 through the Virginia Military Institute's ROTC program. He has served extensively in the aircraft and space acquisition arenas, with notable assignments in the F-16 program office, the Strategic Defense Initiative Organization and several other tours in the Pentagon. He has served in missile operations, as an ACAT I Program Director, and in multiple program management and engineering positions. He retired from AF active duty as a Colonel and entered Civil Service in 2001.



LIEUTENANT COLONEL CHRISTOPHER J. KADALA

Lt Col Christopher J. Kadala is the program manager for the Operationally Responsive Space (ORS) 8 program, ORS Directorate, Space and Missile Systems Center (SMC), Kirtland Air Force Base, New

Mexico. The ORS-8 program is a Secretary of Air Force directed rapid satellite acquisition to fill a USSTRATCOM urgent need for space based environmental monitoring, in particular, cloud characterization and theater weather imagery. The program is anticipated to launch in FY21.

Lt Col Kadala earned his Air Force commission through ROTC at the University of Maryland and began his career as a communication and information officer, later cross-training into acquisitions. He has served in a wide variety of acquisition and staff assignments involving air, space, cyber and intelligence systems.



DR. CLAIRE E. LEON

Dr. Claire Leon, a member of the Senior Executive Service, is the Director of the Launch Enterprise Directorate, Space and Missile Systems Center, Air Force Space Command, Los Angeles, Air Force Base, California. She is responsible for leading the acquisition, integration, development, production, operation and sustainment of the Evolved Expendable Launch Vehicle Program and the Rocket System Launch Program.

Dr. Leon held a variety of leadership positions prior to joining the Air Force Executive Service. Most recently she was a senior adviser for Integrity Applications Incorporated. She also taught courses in systems engineering and program leadership at Loyola Marymount University. She started her career at Hughes, Space and Communications Group in 1979, in the Propulsion Department. She gained experience across the company, in Systems Test, Systems Engineering, Line Management, and Program Management through positions of increasing responsibility. In 2008, she was promoted to Vice President of Navigation and Communications Systems within Boeing, Space and Intelligence Systems, responsible for the Wideband Global SATCOM System, the Transformational Satellite Communications System and Global Positioning System IIF satellite systems, as well as a number of classified programs. She retired from Boeing, in 2013, as the Vice President of National Programs after 34 years in the aerospace industry.



COLONEL KEVIN B. MASSIE

Colonel Kevin Massie is the Director, Space Defense Task Force and Chief, Space C2 Mission Systems Division, Space and Missile Systems Center, Los Angeles Air Force Base, California. As the Director of the Space Defense Task Force, he is responsible for integrating Space Battle Management, Command and Control (BMC2), Enterprise Ground Services (EGS), and Space Threat Warning and Response (TWAR) efforts into one coherent organization to address future threats, while delivering effects in multi-domain operations.

Colonel Massie received his commission through the U.S. Air Force Academy in 1995. He has served as an acquisition officer and developmental engineer across a variety of acquisition, systems engineering and staff positions. His assignments include acquisition tours at the National Reconnaissance Office and Electronic Systems Center and developmental engineer tours at the Electronic Systems Center and the Space Warfare Center. Additionally, he has served on staff positions in SAF/AQ at the Pentagon and in Headquarters Third Air Force in Europe. Colonel Massie has also deployed to Albania, Mozambique, and Afghanistan.

Colonel Massie and his wife, Beth, have two sons, Ryan and Nathan.



MR. RONALD A. ORTIZ

Mr. Ronald A. Ortiz currently holds the position as Director of Contracts, Military Satellite Communications (MILSATCOM) Systems Directorate at Los Angeles Air Force Base, California. In this position, he directs the actions of 33 personnel and manages a diverse contracts portfolio of in excess of \$20B. He creates, executes, and oversees implementation of innovative and highly agile business and acquisition contract strategies supporting Milstar, Defense Satellite Communications, Wideband Global SATCOM, and the Advanced Extremely High Frequency Programs. In addition, he also supports other Advanced Development, Advanced Concepts, Special Capabilities, and Logistics and Operations Support programs.

Mr. Ortiz began his Air Force career in January 1987 after graduating from Southern Methodist University with Bachelor of Science in Engineering Management. During his 29-year Air Force career he has served in a full range of assignments leading competitive defense acquisition activities, awarding and administering multi-billion dollar efforts, interpreting policy and regulations governing DoD procurements, and directing contracting operations of both unclassified and special access programs. He has held a variety of acquisition positions at Air Force Material Command (AFMC), Air Force Space Command (AFSPC), Air Education and Training Command (AETC), National Reconnaissance Office (NRO), and Defense Contract Management Agency (DCMA). He has held warrants as an Administrative Contracting Officer with DCMA and a Procurement Contracting Officer with both the NRO and AFSPC. He is member of defense acquisition corps and holds Acquisition Professional Development Program Level III Contracting Management and Level II Program Management certifications. He retired from Air Force active duty and entered civil service in 2008.



SPEAKER BIOS

(IN ALPHABETICAL ORDER)



COLONEL THOMAS R. ROCK JR.

Col Thomas R. Rock Jr. is the Senior Materiel Leader for the Range and Network Division, Space and Missile Systems Center, Los Angeles AFB, CA. He leads over 250 government and contractor personnel modernizing and sustaining the world-

wide Air Force Satellite Control Network (AFSCN) as well as the nation's Launch and Test Range System (LTRS) located at Vandenberg AFB, CA and Cape Canaveral AFS, FL. As Chief, he manages execution of the LTRS Integrated Support Contract (LISC), the Satellite Control Network Contract (SCNC) contract, and the LTRS Systems Engineering and Integration (SE&I) contract. He is responsible for the Consolidated AFSCN Modifications, Maintenance, and Operations (CAMMO) acquisition and the Space Acquisition Training Office that facilitates standardized training systems for the space enterprise

Col Rock graduated from the United States Air Force Academy in 1993. He has served in a variety of operational, acquisition, staff and command assignments. Notable highlights include achieving full rate production approval for his \$2.4B ACAT I ICBM Propulsion Replacement Program, shepherding the Joint Air Surface Standoff Missile through Nunn-McCurdy certification as Program Element Monitor, and 80+ successful launch operations as squadron commander. Prior to his current assignment, Col Rock was the Deputy Director, Engineering Management and Technical Services, Air Force Life Cycle Management Center, Air Force Materiel Command, Eglin AFB, FL. He is married to the former Rebecca McCarty and they have two wonderful children Tommy (9) and Sarah (5).



MR. ROBERT E. TARLETON, JR.

Mr. Bob Tarleton, a member of the Senior Executive Service, is the Director, Military Satellite Communications (MILSATCOM) Systems Directorate, Space and Missile Systems Center, Air Force Space Command, Los Angeles Air Force

Base, California. He is responsible for acquiring, deploying, and sustaining the \$40B MILSATCOM portfolio of programs which consists of Acquisition Category I and II programs including the Defense Satellite Communications System, Milstar, Global Broadcast Service, Wideband Global SATCOM, the Advanced EHF program, Enhanced Polar System, Command and Control System- Consolidated, and associated Terminal programs.

Mr. Tarleton has held a variety of leadership positions in government and industry, primarily in the acquisition of DoD communications systems. He began his career serving in systems engineering, software, and production management roles before being selected as the Navy's Deputy Program Manager and then Program Manager for Communications Satellite Programs responsible for the acquisition of the DoD's narrowband communications satellites systems. During his tenure as Program Manager, he oversaw the successful on-orbit delivery of the final Ultra High Frequency Follow-On satellite as well as initiating the next generation Mobile User Objective System program. Mr. Tarleton was then selected as a member of the Defense Intelligence Senior Executive Service to lead the Transformational Communications Architecture at the National Security Space Office. Most recently, he served as a senior manager with Booz Allen Hamilton supporting the Navy Program Executive Office (PEO) for Space Systems, the Navy PEO for C4I and the Joint PEO for Joint Tactical Radio Systems.



**LIEUTENANT GENERAL
JOHN F. THOMPSON**

Lt. Gen. John F. Thompson is the Commander, Space and Missile Systems Center, Air Force Space Command, Los Angeles Air Force Base, California.

He is responsible for more than 5,000 employees nationwide and an annual budget of \$6 billion. As the Air Force Program Executive Officer for Space, General Thompson manages the research, design, development, acquisition and sustainment of satellites and the associated command and control systems. His extensive portfolio includes military satellite communication, missile warning, navigation and timing, spacebased weather, space launch and test ranges, certification for launch, space superiority, responsive space and other emerging evolutionary space programs.

General Thompson entered the Air Force in 1984 as a graduate of the U.S. Air Force Academy. He has served in a variety of scientific, acquisition and logistics-oriented capacities, including staff assignments at Air Force Systems Command, Air Force Materiel Command and in the office of the Assistant Secretary of the Air Force for Acquisition.

The general has been Chief of the Commodities Division, Ogden Air Logistics Center, Utah, and Chief of the Air Vehicle Division, C-17 System Program Office, Wright-Patterson AFB, Ohio. He also served as Director of Propulsion, Oklahoma City ALC, Okla.; and Chief of Staff, Air Force Materiel Command, Wright-Patterson AFB. He has commanded the 327th Aircraft Sustainment Wing, Tinker AFB, Okla., and the 303rd Aeronautical Systems Wing, Wright-Patterson AFB, Ohio, where he served as Air Force Program Executive Officer for Intelligence, Surveillance and Reconnaissance. General Thompson has also served as Air Force Program Executive Officer for Strategic Systems, Deputy Program Executive Officer for the F-35 Joint Strike Fighter Program, and KC-46 Program Director.

Prior to assuming his current position, General Thompson was Commander, Air Force Life Cycle Management Center, Air Force Life Cycle Management Center, Wright-Patterson AFB, Ohio.



**COLONEL WALLACE R.
"RHET" TURNBULL, III**

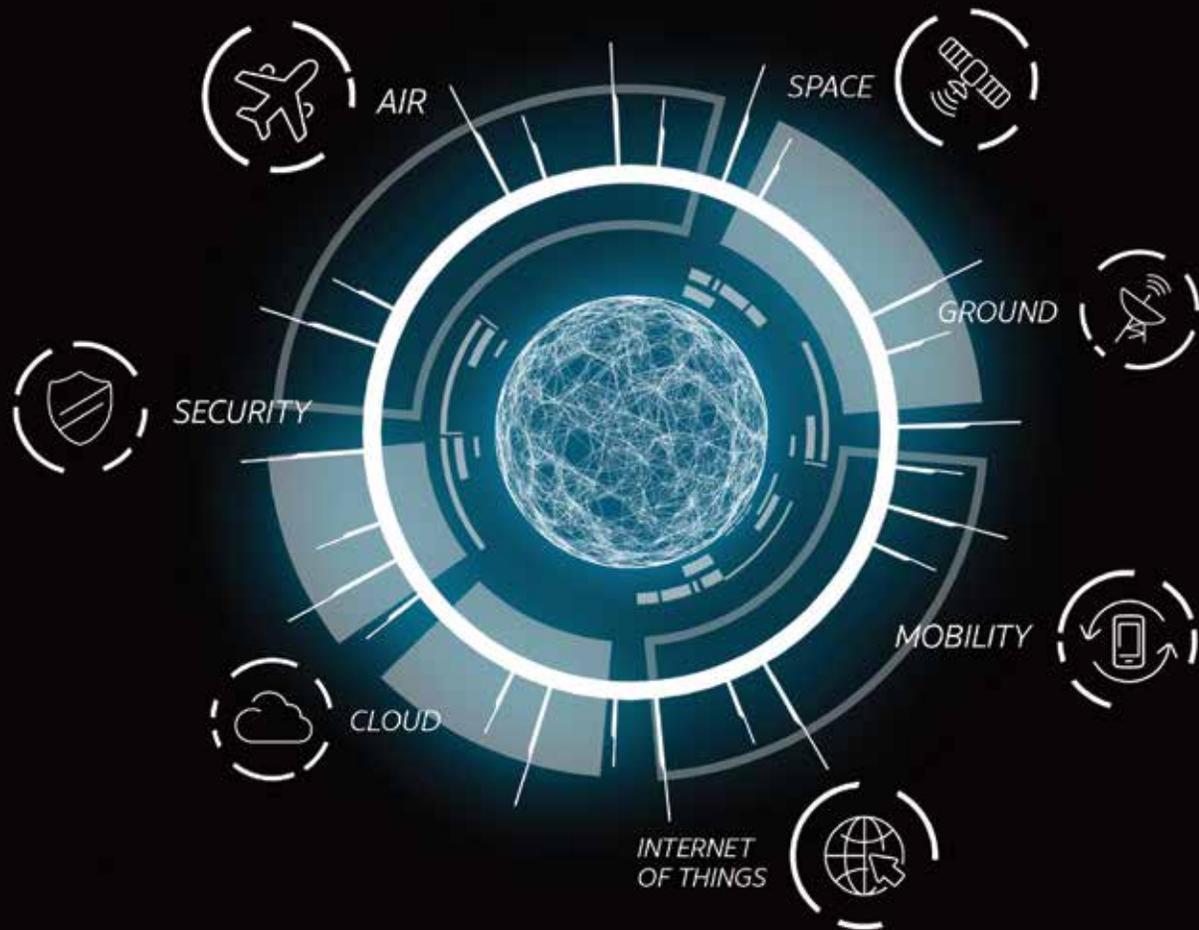
Colonel Wallace "Rhet" Turnbull, III is the Deputy Director, Space Superiority Systems Directorate, Los Angeles Air Force Base, California. The Directorate executes a multi-billion-dollar budget and conducts the planning, development, testing, deployment and sustainment of a complex and dynamic portfolio of space-superiority capabilities of the highest national priority.

Colonel Turnbull entered the Air Force in 1995 as a graduate of the United States Air Force Academy. He has led at the Materiel Leader level and has served in a variety of operations and acquisitions positions including spacecraft engineer, program manager and chief engineer. Colonel Turnbull has deployed in support of Operation ENDURING FREEDOM as Ministerial Engagement Officer at International Security Assistance Force Afghanistan Joint Command, Kabul, Afghanistan.

Colonel Turnbull has served in staff assignments at the Joint Functional Component Command for Global Strike and at Headquarters, U.S. Strategic Command.

Prior to his current assignment, the colonel served as the Deputy Director, Nuclear Technology Directorate, Kirtland Air Force Base, New Mexico..





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ATLAS Space Operations, Inc.

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BAE Systems Cybersecurity Products portfolio is focused on enterprise defense and the protection of information. We protect the world's most sensitive information with innovative solutions such as STOP™ secure operating system, our class-leading cross domain products, the Data Diode Solution™ and XTS® Guard 5, and our Secure Information Broker Appliance, SIBA.

Ball Aerospace

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Ball Aerospace supports critical missions for national agencies such as the Department of Defense, NASA, NOAA and other U.S. government and commercial entities. Ball develops and manufactures spacecraft, advanced instruments and sensors, components, data exploitation systems and RF solutions for strategic, tactical and scientific applications.



The Boeing Company

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Boeing's Satellite Systems division, part of Boeing Space and Missile Systems, is headquartered in El Segundo, CA. Satellite Systems is the company's center for all space-based intelligence systems and government and commercial satellite systems. Boeing offers end-to-end intelligence services and has competency in large-scale systems integration; intelligence, surveillance, and reconnaissance systems; and navigation and communication systems.

Braxton

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Braxton Technologies capabilities include Commercial Antenna Service (CAS) and Air Force Satellite Control Network (AFSCN) Scheduling Tool (AST). Both support SMC/RN directly or indirectly. Additionally, our SMC portfolio includes capability and expertise supporting SMC/GP, SY, and AD.

Ciena

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Ciena is a network strategy and technology company known for its commitment to customer success. With nearly 25 years of industry leadership, we support more than 1,300 of the world's largest, most reliable networks. Our technology is complimented with a high-touch consultative business model. As the network specialist, we're committed to developing and applying technologies that facilitate openness, virtualization, automation, collaboration, and a common experience.

Crestron Electronics, Inc.

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Our automation and control solutions for buildings and homes let people control entire environments with the push of a button, integrating systems such as A/V, lighting, shading, IT, security, BMS, and HVAC to provide greater comfort, convenience, and security. All of our products are designed and built to work together as a complete system, enabling you to monitor, manage, and control everything from one platform.

Dell

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Dell offers an end-to-end virtualization solution to defense customers to increase efficiency and security to ensure no data at rest. We feature Enterprise solutions and thin and zero clients. Dell Wyse offers the only zero clients that support VMware Blast and PCoIP protocols.

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Deloitte is one of the largest global services firms supporting the Federal Government and DoD. Deloitte is focused on outcomes. We believe in innovation over stagnation, helping the government solve problems in ways they never imagined. Deloitte provides a holistic set of offerings including cyber, modernization, mission analytics, transformation, and systems engineering.

Dynamic Systems, Inc.

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Dynamic Systems, a WOSB, has been providing IT products and architecting expert solutions for the Government since 1991. We built a superior infrastructure and assembled an experienced team to meet the depth and breadth of technology solutions to meet your unique requirements. We hold ITES-3H, GSA, SEWP V, and CIO-CS contracts and are an Oracle Platinum partner with 33 specializations.

Elotek Systems Inc.

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Elotek Systems is a solutions provider committed to the selling and marketing of technical solutions and products, which include sensing, measuring, conditioning, telemetering, recording, and processing of data. Customers include aerospace, industrial, medical, and military markets as well as OEM's, systems integrators, VARs, engineers, and end-users. We offer our services throughout the Western United States, Alaska, and Hawaii.

Exabeam

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The Exabeam Security Intelligence Platform provides organizations of all sizes with end-to-end detection, analytics, and response capabilities from a single platform. Exabeam SIP provides unlimited log management at a predictable, cost effective price, leverages UEBA for accurate threat detection, and provides automated security orchestration and playbooks for efficient incident response.

F5 Networks, Inc.

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F5 Networks specializes in application-delivery technology that optimizes the delivery of applications and the security, performance, and availability of servers and other network resources. F5 BIG-IP hardware and virtual devices are deployed at strategic points throughout the Air Force in support of AFIN, AF Enterprise cloud initiatives, AF Enterprise applications, and individual missions specific applications.

FEI-Zyfer, Inc.

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As the pioneering developer and manufacturer of GPS time and frequency systems, FEI-Zyfer offers both commercial-off-the-shelf (COTS) and custom designs to meet our customer requirements for precise time and frequency references. Our engineering expertise in both oscillator and system design ensures that our customers are provided with the most reliable and accurate systems available.

General Dynamics Mission Systems

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General Dynamics Mission Systems helps customers defend networks against dynamic threats by developing, deploying, and sustaining encryption products, systems, and services to protect, detect, monitor, analyze, and respond. Our world class family of cyber defense products includes the TACLANE® family, the world's most widely deployed Type 1 network encryptor.



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.

Green Hills Software

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Harris Corporation

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Hewlett Packard Enterprise

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Hughes Network Systems, LLC

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Hughes Network Systems, LLC is the world's leading provider of satellite broadband, delivering innovative network technologies, managed services, and solutions for enterprises and governments globally. Headquartered outside Washington, D.C., in Germantown, MD, Hughes operates sales and support offices worldwide, and is a wholly owned subsidiary of EchoStar Corporation.

Insight Public Sector

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Insight Public Sector is a \$6B provider of IT products, cloud services, and solutions to the Air Force, and are on the NETCENTS-2 Products, SEWP-V, GSA, and Microsoft JELA contracts. We have 125+ engineers with over 600 SME certifications to help you with your Market Research.

Iron Bow Technologies

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KaiHonua, LLC

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Kratos Defense & Security Solutions

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Kratos|RT Logic is the leader in developing, delivering, and sustaining innovative, secure satellite C2 and data management, delivery, and distribution solutions to/from space and terrestrial platforms for defense, intelligence, civil, and commercial partners. We combine market leading COTS products, best-of-breed industry tools, and engineering services to address our partners' needs.



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L3 is a leading provider of a broad range of communication and electronic systems and products used on military, homeland security, and space platforms to include communications, COMSEC, and hosted payload interfaces. L3 is also a prime contractor in aerospace systems, security and detection systems, and pilot training.

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LogRhythm

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LogRhythm, a leader in security intelligence and analytics, empowers organizations around the globe to rapidly detect, respond to, and neutralize damaging cyber threats. The company's award-winning platform unifies next-generation SIEM, log management, network and endpoint forensics, and advanced security analytics.

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New Horizons Computer Learning Centers is a leader in IT, desktop applications, project management, and business skills training. As a training provider for many of the industry's top vendors, such as Microsoft, VMware, and Cisco, we are positioned to offer the latest authorized courses. Our guaranteed-to-run Online LIVE schedule makes training convenient and cost effective. And, with certified instructors delivering training, you remain on the cutting edge of technology.

New Wave DV

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Northrop Grumman

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Northrop Grumman presents new EHF protected satcom products: Low Cost Terminal (LCT) and Enhanced Polar System Control and Planning Segment (EPS CAPS). The industry-funded LCT completed on-orbit AEHF satellite testing August 2017. EPS CAPS completed acceptance testing September 2017 and is deployed to operational sites at Clear, AK and Schriever AFB.

Nutanix, Inc.

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The Nutanix Enterprise Cloud Platform leverages web-scale engineering and a consumer-grade user-interface to natively converge compute, virtualization, and storage into a resilient, software-defined infrastructure. The result is cloud-like infrastructure consumption, robust security, and seamless application mobility for enterprise applications.

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Oracle's National Security Group is committed to providing its customers with a comprehensive, high-performance set of hardware, software, and cloud solutions that ensure mission success.

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.

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Rockwell Collins, Inc.

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SafeNet Assured Technologies, LLC

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Space Systems Loral

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Space Systems Loral (SSL) is a leading provider of advanced spacecraft systems with broad expertise to support commercial and government satellite operators and innovative space missions. The company is a subsidiary of Maxar Technologies, the leading integrated provider of satellites, imagery, and geospatial solutions. As a trusted partner, the company provides unmatched end-to-end systems capabilities and integrated solutions expertise to anticipate and address our customers most complex mission critical challenges.

TVAR Solutions

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TVAR Solutions is a small business information technology value added reseller that markets exclusively to the Federal Government and its system integrator partners. Our partner Rubrik delivers instant application availability for recovery, search, cloud, and development.

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