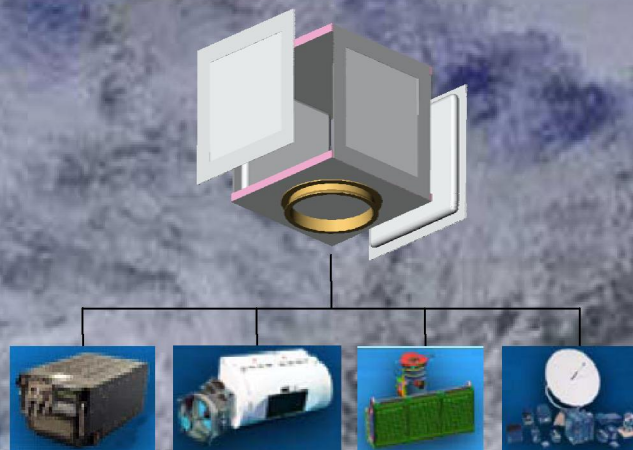
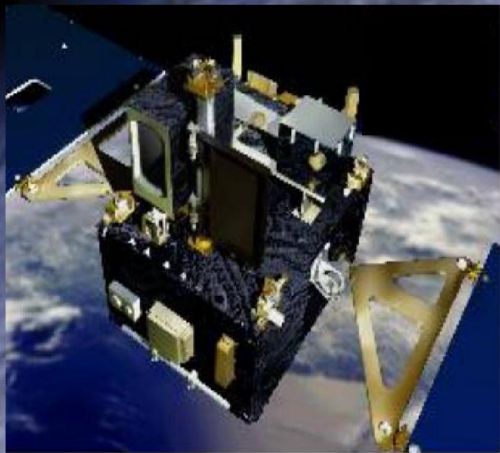


Operationally Responsive Space (ORS)

Brigadier General William N. McCasland

Our space systems today are truly amazing machines. They provide our soldiers, sailors, airmen and marines with incredibly precise navigation, weather and communication services. Space based sensors help protect US forces from enemy missiles and provide battlefield awareness to help them accomplish their mission. Space based systems give US forces an incomparable advantage, and in many ways current space systems are incredibly responsive. Our global constellations support users around the world 24 hours a day 7 days a week. We need to do better, though. There are some areas where we have difficulty passing time-sensitive data through complicated and interrelated command structures. In other areas high costs, long development processes and launch timelines delay important capabilities. Any one of these impediments can keep critical support from our nation's warfighters when there may be lives on the line.

Operationally Responsive Space is an effort to make space capabilities more dynamic. Space systems are sophisticated systems and we must address the challenge of making them more responsive from a broader perspective. We can look to the command and control structure for how we schedule, allocate and task services. For other capabilities, we focus on new systems and platforms. In the long term some of these capabilities may benefit from a more consumable approach of the launch-on-demand of dedicated platforms. Shortening the development timeline and reducing the cost to provide new capabilities will allow us to respond more quickly to the problems of the 21st century. General McCasland will present these opportunities with the goal of fostering broad dialog.





Brig. Gen. William N. McCasland is Vice Commander, Space and Missile Systems Center, Los Angeles Air Force Base, California. He is responsible for assisting the Commander in the research, design, development and acquisition of space launch, command and control, and satellite systems. The Space and Missile Systems Center is the nation's center of technical expertise for military space acquisition, with an annual obligation authority exceeding \$8 billion and more than 3,200 employees nationwide.

General McCasland was commissioned in 1979 from the U.S. Air Force Academy. He has served in a wide variety of space research, acquisition and operations roles within the Air Force and the National Reconnaissance Office.



He has served as the Chief Engineer of Navstar Global Positioning System Joint Program Office, and later as System Program Director for the Space Based Laser Project at the Space and Missile Systems Center. He commanded the Phillips Research site, Kirtland AFB, NM, also serving as the Technical Director, Space Vehicles Directorate, Air Force Research Laboratory. Prior to his current assignment, he was the Vice Commander of the Ogden Air Logistics Center, Hill AFB, UT.

EDUCATION

- 1979 Bachelor of Science degree in aeronautical engineering, U.S. Air Force Academy, Colorado Springs, Colo.
- 1980 Master of Science degree in aeronautical engineering, Massachusetts Institute of Technology, Cambridge
- 1988 Doctor of Philosophy in aeronautical engineering, Massachusetts Institute of Technology, Cambridge
- 1995 Air War College, Maxwell AFB, Ala.

MAJOR AWARDS AND DECORATIONS

- Defense Superior Service Medal
- Legion of Merit
- Defense Meritorious Service Medal with two oak leaf clusters

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS

- Associate Fellow, American Institute of Aeronautics and Astronautics