



## Space Test & Operations Division

### Mission Statement

*Provide expertise, infrastructure, and processes to perform developmental test and evaluation of space assets that include scientific, technology demonstration, and developmental systems, while accelerating mission design and integration, launch operations, and ground system development, providing reliable, low-cost access to space and rapid migration of space capabilities to the warfighter.*

### Mission Partners / Contractor Support

- Air Force Research Laboratory
- DoD Operationally Responsive Space Office
- Defense Advanced Research Projects Agency
- Department of the Navy
- NASA
- National Reconnaissance Office
- Lockheed Martin
- LinQuest
- Space and Missiles System Center
- Space Test Program



Col Anttonen – SDT Chief

The Research and Development Space and Missile Operations (RDSMO) program provides a complete test and evaluation capability for R&D space missions. Through the program's distributed core capability and cadre of space test professionals, RDSMO can support the test and evaluation of any space system from any place on Earth. With a dedicated satellite operations center (the RDT&E Support Complex (RSC)) and deployable test systems, RDSMO can provide flexible, configurable, and responsive support for all space test needs. RDSMO consists of three branches – SDTC, SDTO, SDTT with prime contractor support from Lockheed Martin and LinQuest.

### Responsive Satellite Command and Control Branch (SDTC)

SDTC designs, develops, procures and upgrades the multi-mission common satellite ground system (known as the Multi-Mission Satellite Operations Center Ground System Architecture (MMSOC GSA)). MMSOC GSA is used for R&D, residual operations, and the operational community. The design, development and upgrade of MMSOC in a Service Bus Architecture approach simplifies integration of new systems through the use of open architecture standards to allow for responsive, net-ready operations and lower ground system costs.

### Space Operations Branch (SDTO)

SDTO can support the entire life cycle of operations support and engineering management required for the development and sustainment of current and future satellite C2 capabilities. The branch is supported by government contractors. The Space Test and Engineering Contract (STEC) provides mission operators, satellite engineers and orbit analysts. The Engineering, Development and Sustainment (EDS) Contract provides software and hardware engineering support to sustain RSC systems and facilities.

### Space Test Branch (SDTT)

SDTT designs, develops and employs the expertise, infrastructure and processes necessary to accomplish Developmental Test and Evaluation of space assets while enabling rapid migration of space capabilities to the warfighter. The branch operates the mobile range, rapidly deploying antenna systems worldwide in support of launch and early on-orbit checkouts. The branch also operates the only mobile AFSCN equipment suite used for factory and launch site compatibility testing.