

Defense Satellite Communications System (DSCS)

Provides secure voice and data communications and intelligence transfer to deployed forces worldwide.



DESCRIPTION AND SPECIFICATIONS

The Defense Satellite Communications System (DSCS) provides super-high-frequency, beyond-line-of-sight communications and a critical conduit for intelligence information transfer. DSCS consists of a geosynchronously orbiting satellite network, fixed enterprise military satellite terminals, baseband, payload control systems, and related equipment. DSCS also provides reachback capability to sanctuary for deployed forces (teleport and standard tactical entry point sites). DSCS modernization efforts provide tactical warfighters with reachback access to Defense Information Systems network services, ensure survivable communications for critical nuclear command and control, and support the Army's mission of payload and network control on super high frequency wideband communications satellites.

DSCS is designed to satisfy long-term communication needs of warfighters and combatant commanders, as well as command, control, communications, and intelligence requirements. DSCS provides the equipment that the U.S. Army Space and Missile Defense Command uses to perform its payload and network control mission on wideband satellites. DSCS also provides an anti-jam and anti-scintillation capability for key strategic forces.

The DSCS program includes modernization of enterprise terminals, baseband, and payload and network control systems required to support warfighter use of these satellites.

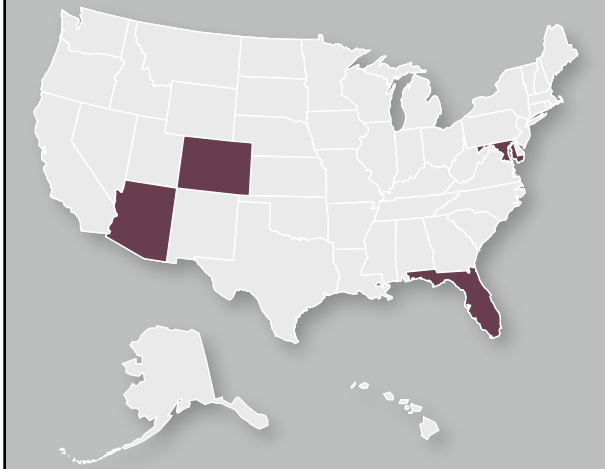
The Department of Defense will begin to launch Wideband Gapfiller Satellites (WGS) to provide warfighters with greatly increased capacity and a new Ka-band capability in December 2005.

PROGRAM STATUS

- **3QFY04** Currently deployed worldwide. Modernization efforts to support WGS and Transformational Satellite continue.
- **4QFY04** AN/GSC-52 modernization program continues to extend life for these terminals to 2015.
- **4QFY04** Installations, deinstallations, and relocations of fixed strategic ground terminals and baseband continue as required by combatant commanders and validated by Joint Staff.
- **4QFY04** Awarded contract for multiplexer integration and Defense Satellite Communications Subsystem automation system follow-on production, depot support, and post production software center support.
- **4QFY04** Completed first article test and system integration test for Global Terrestrial Critical Control Circuit system.

PROJECTED ACTIVITIES

- **3QFY05** Begin enhanced bandwidth efficient modem production deliveries.
- **4QFY05** Complete teleport generation I installations for initial operational capability 2.
- **4QFY05** Begin installation of fixed Ka-band terminals.



CONTRACTORS

Satellite Equipment:

ITT Industries (Colorado Springs, CO)

Installation Kits:

Harris Corporation (Melbourne, FL)

DSCS Integrate Management System and DSCS Objective Control System

Software:

John Hopkins University Applied Physics Laboratory (Laurel, MD)

Engineering Support:

U.S. Army Information Systems Engineering Command (Ft Huachuca, AZ)

Software:

Northrop Grumman (Orlando, FL)

INVESTMENT COMPONENT

Modernization

ACQUISITION PHASE

- Production and Deployment