

# Single Channel Ground and Airborne Radio System (SINGARS)

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

### MISSION

Provides Joint commanders with a highly reliable, low-cost, secure, and easily maintained Combat Net Radio (CNR) that has both voice and data handling capability in support of tactical command and control operations.

### DESCRIPTION

The Single Channel Ground and Airborne Radio System (SINGARS) Advanced SINGARS System Improvement Program (ASIP) radio is the DoD/U.S. Army multi-service fielded solution for voice communication for platoon level and above, operating over the 30.000 to 87.975 megahertz frequency range. This radio provides the capability of establishing two-way communications (including jam-resistance) using the SINGARS waveform and provides multimode voice and data

communications supporting ground, air-to-ground, and ground-to-air line-of-sight communications links.

The ASIP radio is the newer version of the SINGARS radio. It is smaller than the System Improvement Program (SIP) and weighs significantly less, while still maintaining all the functionalities of the SIP for backward compatibility. Enhancements include the Embedded Global Positioning System (GPS) Receiver (EGR) and the radio-based combat identification/radio-based situational awareness (RBCI/RBSA) capability, which provides the warfighter with enhanced situational awareness and identification of friendly forces in targeted areas.

RBCI serves as a gap filler for combat identification, providing an interrogation/responder capability to satisfy the air-to-ground positive identification of platforms prior to release of weapons to prevent fratricide. RBSA adds a radio beaconing capability for every ASIP-equipped platform to enhance the Blue Force situational awareness picture. The Internet controller enhancements

add improved addressing capabilities in support of tactical Internet enhancements being provided by Joint Battle Command–Platform for Joint interoperability. Crypto modernization is a programmable communications security capability for SINGARS that will allow the radios to continue to provide secure communications to the secret and top-secret level of security.

SINGARS is part of Capability Set (CS) 13, the Army's first package of network components, associated equipment, and software that provides integrated connectivity from the static tactical operations center to the commander on-the-move to the dismounted Soldier. CS 13 begins fielding to Brigade Combat Teams in 2012.

### SYSTEM INTERDEPENDENCIES

None

### PROGRAM STATUS

- **1QFY12-4QFY12:** Continue to field in accordance with Headquarters Department of the Army guidance to support the Army Campaign Plan; National Guard, Army Reserve, and Active Army, Operation Enduring Freedom requirements and urgent Operational Needs Statement

### PROJECTED ACTIVITIES

- **2QFY13-2QFY15:** Continued fielding of SINGARS

## ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

## Single Channel Ground and Airborne Radio System (SINCGARS)

### FOREIGN MILITARY SALES

Australia, Bahrain, Croatia, Egypt, Estonia, Finland, Georgia, Greece, Hungary, Ireland, Italy, Korea, Kuwait, Morocco, New Zealand, Portugal, Saudi Arabia, **Supreme Headquarters Allied Powers Europe (SHAPE) Tech Center:** Slovakia, Taiwan, Thailand, Ukraine, Uzbekistan, Zimbabwe

### CONTRACTORS

#### Radio design/production:

ITT (Fort Wayne, IN)

#### Hardware Installation Kits:

UNICOR (Washington, DC)

#### Engineering Support and Testing:

ITT (Clifton, NJ)

#### Total Package Fielding:

USFalcon/EPS Corp. (Morrisville, NC, and Tinton Falls, NJ)

