

Secure Mobile Anti-Jam Reliable Tactical–Terminal (SMART-T)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides range extension to the Army's current and future tactical communications networks.

DESCRIPTION

The Secure Mobile Anti-Jam Reliable Tactical–Terminal (SMART-T) is a mobile military satellite communication terminal mounted on a standard High Mobility Multipurpose Wheeled Vehicle. The SMART-T extends the range of current and future tactical communications networks through DoD Milstar communication satellites. With the SMART-T's higher power transmitter, it now provides data rates up to 8.192 million bits per second (Mbps). It provides the Army with its only protected (anti-jam and anti-scintillation) wideband satellite communication capability with new AEHF Transmission Security (TRANSEC) algorithms. A production contract was awarded to upgrade SMART-T to support the Advanced Extremely High Frequency (AEHF) waveform. The AEHF satellite system will dramatically increase the Army's end-to-end communications throughput capability. The AEHF upgrade to the

SMART-T will include up-armoring in compliance with recent changes in Army policy for the deployment of personnel carriers.

SMART-T processes data and voice communications at both low and medium data rates. The terminal provides worldwide, anti-jam, low probability of intercept, secure voice, and data capabilities for the Joint warfighter. Its enhanced system interfaces include base-band interface changes, accommodating additional data rates. SMART-T will be fielded at the brigade and division levels.

SYSTEM INTERDEPENDENCIES

Other Major Interdependencies
The SMART-T communicates with Milstar military communication satellites, and is being upgraded to communicate with AEHF communication satellites.

PROGRAM STATUS

- **2QFY07–4QFY10:** Deployed up to 47 SMART-Ts in Southwest Asia; received positive feedback
- **3QFY08:** Completed fielding of 239 EHF SMART-Ts
- **2QFY09:** Completed Army buyout of AEHF SMART-T Upgrade Kits
- **3QFY10:** Awarded contract to procure 39 complete AEHF SMART-Ts

PROJECTED ACTIVITIES

- **1QFY11:** Obtain conditional materiel release for AEHF SMART-T modification work order
- **2QFY11:** Initiate AEHF SMART-T fieldings to operational Army units
- **3QFY12:** SMART-T will participate in Air Force AEHF multi-service operational test and evaluation

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Secure Mobile Anti-Jam Reliable Tactical-Terminal (SMART-T)

FOREIGN MILITARY SALES

None

CONTRACTORS

Production and Spares:

Raytheon (Largo, FL)

Engineering Support, Management:

Raytheon (Marlborough, MA)

Circuit Cards:

Teledyne (Lewisburg, TN)

Filters:

Transtector (Hayden, ID)

Amplifier Assemblies:

Spectrum Microwave (Marlborough, MA)

COMSEC:

L-3 Communications (Camden, NJ)

New Equipment Training/Fielding:

EPS Corp. (Martinez, GA)

Satellite Simulator:

Lincoln Labs (Lexington, MA)

Technical/Fielding Support:

Linquest Corp. (Colorado Springs, CO)

Admin/Tech:

JANUS Research (Eatontown, NJ)

Technical:

Booz Allen Hamilton (Eatontown, NJ)

