# Warfighter Information Network-Tactical (WIN-T) Increment 3

## INVESTMENT COMPONENT

- Modernization
- Recapitalization
- Maintenance

## MISSION

Provides "full networking on-the-move" as a mobile, multitiered, tactical communications/transport layer network, enabling Joint land forces to engage enemy forces effectively.

## DESCRIPTION

The Warfighter Information Network-Tactical (WIN-T) Increment 3 enables the full-objective mobile, tactical network distribution of command, control, communications, computers, intelligence, surveillance, and reconnaissance information via voice, data, and real-time video. Building on previous increments, Increment 3 provides more robust connectivity and greater network access via military specification radios, higher bandwidth satellite communications (SATCOM) and line-of-sight (LOS) waveforms, an aerial tier (LOS airborne relay), and integrated network operations. It manages, prioritizes, and protects information through network operations (network management, quality of service, and information assurance) while reducing organizational and operational support. WIN-T Increment 3 ensures communications interoperability with Joint, Allied, Coalition, Current Force, and commercial voice and data networks. Using communications payloads mounted on Unmanned Aerial Systems, Increment 3 introduces an air tier to increase network reliability and robustness with automatic routing between LOS and SATCOM. This extends connectivity and provides increased Warfighter mobility, providing constant mobile communications.

## SYSTEM INTERDEPENDENCIES

### In this Publication

Bradley Fighting Vehicle Systems Upgrade, Integrated Air and Missile Defense (IAMD), Joint Tactical Radio System Ground Mobile Radios (JTRS GMR), Joint Tactical Radio System Handheld, Manpack, Small Form Fit (JTRS HMS), Distributed Common Ground System-Army (DCGS-A), Stryker Family of Vehicles, Warfighter Information Network-Tactical (WIN-T) Increment 1, Warfighter Information Network-Tactical (WIN-T) Increment 2

### Other Major Interdependencies

Assistant Secretary of the Army for Acquisition, Logistics, and Technology System-of-Systems (ASA(ALT) SOS), BCT Modernization, Enhanced Position Location and Reporting System (EPLRS), Light Tactical Vehicle (LTV), PEO Integration, PM Unmanned Aircraft System (UAS), Tactical NW Operations and Security Center (TNOSC), Wideband Gapfiller

## PROGRAM STATUS

- **1QFY11:** Revised Acquisition Program Baseline (APB)

## PROJECTED ACTIVITIES

- **3QFY12:** Transmission subsystem critical design review
- **4QFY13:** Full critical design review
- **2QFY14-3QFY14:** Transmission subsystem developmental test/limited user test
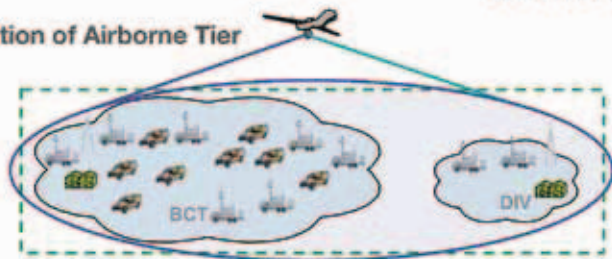
## ACQUISITION PHASE

- Technology Development
- **Engineering and Manufacturing Development**
- Production and Deployment
- Operations and Support

**UNITED STATES ARMY**

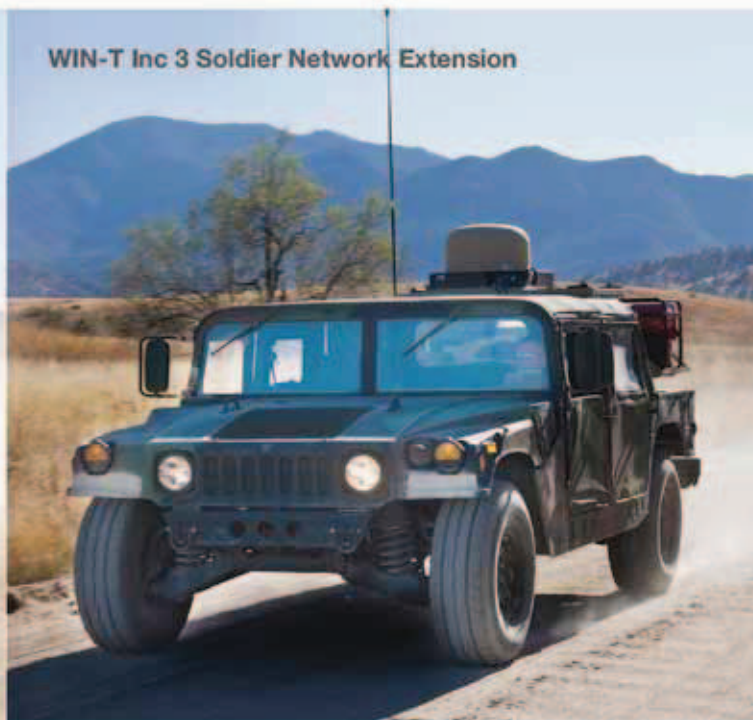## FULL NETWORK ON THE MOVE

**Addition of Airborne Tier**

- Adds an airborne communications node as a third tier of tactical networked communications
- Provides a fully mobile and flexible network to a dispersed force of noncontiguous terrain
- Aerial tier increases throughput and reduces reliance on SATCOM

WIN-T Inc 3 Tactical Communications Node (While Mobile)

WIN-T Inc 3 Soldier Network Extension

**Full Network Operations**

Fully automated network operations— no pause in operations

**2 ch & 4 ch JC4ISR**
Air & Ground

Ground Only

Single chassis JC4ISR Radio that provides 4x network capacity as the LOS Inc 2 radio

**Antenna**
Ground Only
HRFU-MT

Air Only
HRFU-E$_k$

(High Band Frequecy Unit)

## Warfighter Information Network-Tactical (WIN-T) Increment 3

**FOREIGN MILITARY SALES**
None

**CONTRACTORS**
**Prime:**
General Dynamics (Taunton, MA; Sunrise, FL)
**Subcomponent:**
Lockheed Martin (Gaithersburg, MD)
**Subcontractors:**
Harris Corp. (Melbourne, FL)
BAE Systems (Wayne, NJ)
L-3 Communications (San Diego, CA)

**WEAPON SYSTEMS 2012**