

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

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides “full networking on-the-move” as a mobile, multi-tiered, 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

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

PROGRAM STATUS

- **1QFY09:** 30-Node Engineering field test to demonstrate technology maturity

PROJECTED ACTIVITIES

- **2QFY12:** Transmission subsystem critical design review
- **3QFY13:** Full critical design review
- **4QFY13:** Transmission subsystem developmental test/limited user test
- **2QFY15:** Milestone C

ACQUISITION PHASE

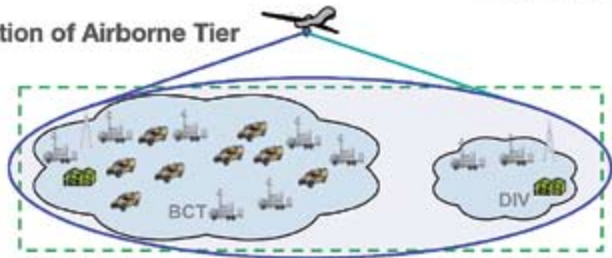
Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Addition of Airborne Tier

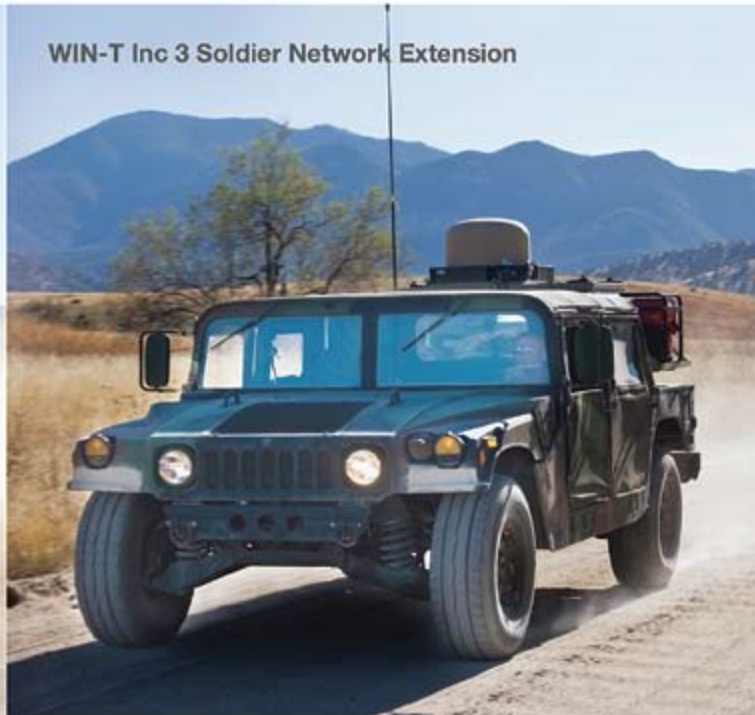


- Adds an airborne communications node as a third tier of tactical networked communications
- Provides a fully mobile and flexible network to a dispersed force of noncontiguous terrain
- Aerial tier increases throughput and reduces reliance on SATCOM

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_x



(High Band Frequency 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)

