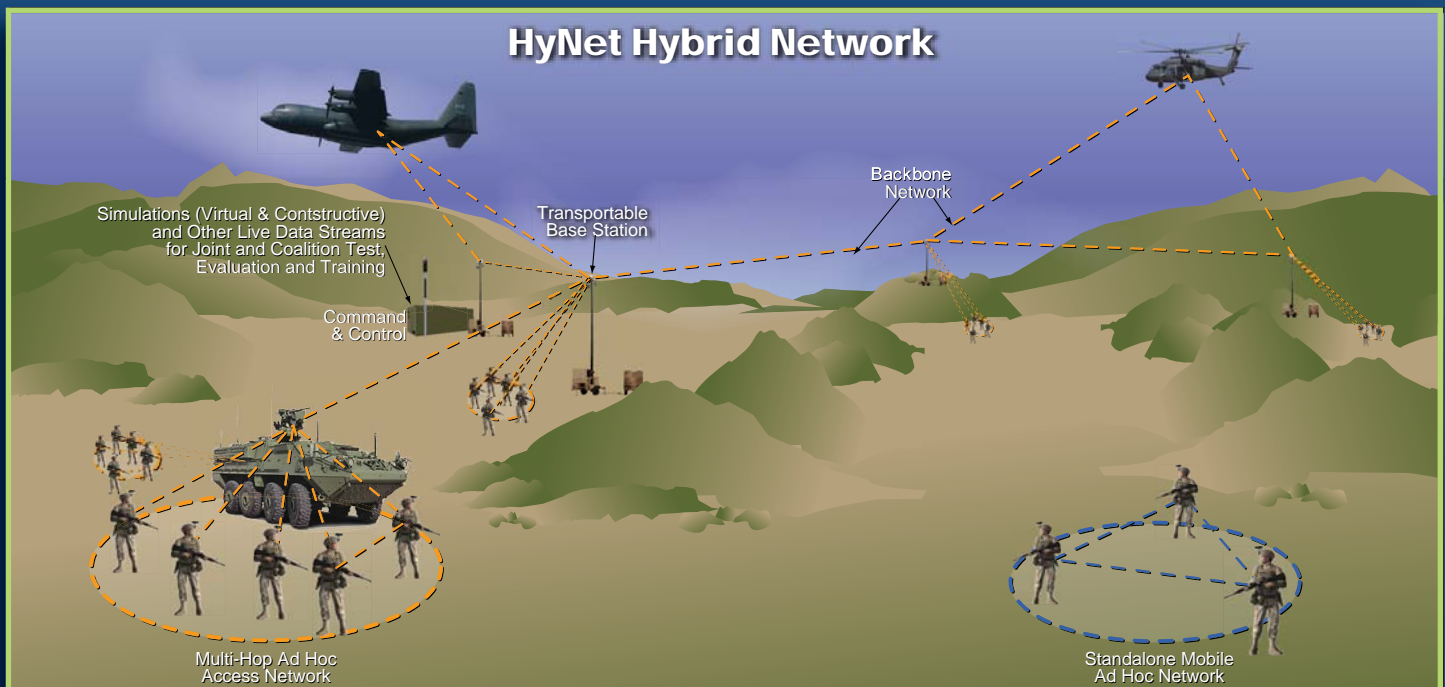


Next-Generation Comms for Net-Centric Test, Evaluation & Training

Argon ST's Hybrid MANET/Backbone Network (HyNet) is an adaptable and spectrally efficient high performance wireless network designed for the demanding environments created by military test and training, tactical military operations, natural disasters or other civil emergencies. HyNet technology serves as both an upgrade to—and a leap beyond—the operational test instrumentation system used by the U.S. Army's Operational Test Command (OTC) at Fort Hood, TX, and for the Common Range Integrated Instrumentation System Rapid Prototype Initiative (CRIISS RPI) at White Sands Missile Range.

HyNet's Wireless Communications Network technology provides a combination of capabilities not found in other currently fielded systems:

- HyNet is radio platform independent and supports a wide spectrum of capabilities and price points.
- HyNet enables the effective integration of Live, Virtual & Constructive with our IPV4/V6 network that carries data from multiple applications with multiple types of service.
- HyNet provides the flexibility of a software-defined radio architecture operating over a wide RF spectrum.
- HyNet combines the best of cellular-like base station access with mobile-ad-hoc networks (MANET) for large area coverage and network reliability.
- HyNet provides dynamic network support over multiple bands with a wide range of Type-of-Service and Quality of-Service.
- HyNet accommodates up to 5000 network nodes.



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Leveraging HyNet's Hybrid Network

OT-TES, CRIIS-RPI, & future test and training systems such as OneTESS

OT-TES (Operational Test Tactical Engagement Systems Comms Upgrade) for Operational Test Command at Ft. Hood, TX



OT-TES - Wearable & Vehicular Radio

CRIIS-RPI (Common Range Integrated Instrumentation System-Rapid Prototype Initiative) for White Sands Missile Range



CRIIS-RPI - Body Worn Radio

Functionality:

- OT-TES dramatically improves overall spectrum efficiency with OFDM signal in space and HyNet's RF Resource Manager.
- OT-TES provides encryption through Type 1 or AES.
- OT-TES provides high resistance to adverse conditions such as multi-path (up to 50µs delay spread).
- OT-TES offers data rates ranging from 100kbps - 1Mbps and operates over four independent bands: 225-400MHz, 560-698MHz, 1350-1390MHz, 1755-1850MHz.
- OT-TES dismount uses low-profile body worn antenna.
- OT-TES' power efficient hardware maximizes battery life and enables seamless operation between high band width infrastructure and MANET.
- OT-TES uses a compact form factor and has a long battery life - designed for energy-constrained applications; 12 hour life on a single Land Warrior battery.
- OT-TES network & transceiver delivered as a singleline replaceable unit: can be used in multiple applications, simplifying sparing & maintenance strategies.



Fully collapsed Antenna Mast Assembly

Functionality:

- CRIIS RPI program provides a complete solution for the wireless capture of TSPI data from dismounted soldiers and TSPI and attitude data from low dynamic vehicles.
- CRIIS RPI equipment is capable of a horizontal position accuracy of less than 60 centimeters.
- CRIIS RPI equipment is capable of a vertical accuracy less than 90 centimeters.
- CRIIS RPI offers a small form factor for dismount, low dynamic vehicle and access point.

Other Programs Leveraging HyNet:

- HyNet supports CTEIP's iNET and InterTEC Programs—CTEIP (Central Test and Evaluation Investment Program), iNET (Integrated Network Enhanced Telemetry), InterTEC (Interoperability Test & Evaluation Capability).
- HyNet offers Net-Centric operations for the future: CRIIS, OneTESS, and Embedded Test and Training.



Transportable Base Station: Deployed

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