

TACTICAL DATA-CENTRIC NETWORKS

All services proclaim network modernization as a top priority, but almost nothing innovative has been fielded. Why?

Hyper-connectedness and transparent interoperability have benefitted consumers for nearly two decades; yet militaries continue to rely on single-user, single-function, non-interoperable legacy technologies like Push-to-Talk (PTT) for critical communications.

Cellular technologies reliably and robustly serve billions of users daily, but DoD adoption is slow. Procurement processes are a major inhibitor, as always; but so is bird-in-the-hand thinking. The world's bravest warfighters are fearful that proven modern technologies are too complicated, too fragile, and not secure enough for military use cases.

Secure TACTICAL MOBILE BROADBAND is mature. It is simple to deploy and ready for rough handling.

Let us show you how to inexpensively connect everybody and everything on the battlefield.

ONE NETWORK, ANY DEVICE

Banshee Tactical Radio (BTR): Man-portable, 18 lb, secure, high throughput, meshed, private-cellular network for up to 256 phones or sensors.



HIGH-SPEED WIRELESS NETWORKING ON-THE-MOVE FOR DECISION DOMINANCE AT THE TACTICAL EDGE

- **Transport-agnostic network integration.** Connect smartphones and any other IP-based device, computer, or sensor.
- **Tactical Operations Center (TOC)-in-a-Box.** Interconnect with any other IP-based network for Joint omni-domain operations.
- Fully operational while **in motion or at the halt.** Operates fully disconnected in **GPS-denied environment.**
- **Cellular network transport** for voice communications, data transport, video streaming, mission critical applications, reachback to cloud-based compute and remote echelon.
- **Real-time shared Situational Awareness (SA)** for all local connected users with real-time visibility and control for remote command.
- **Connect legacy radios** for plug-and-play, transparent interoperability: smartphones talk to Program of Record (POR) radios with little user setup required.
- Developed with DoD funding, **Technology Readiness Level (TRL) 9**, already fielded, mitigates deployment risk.

BANSHEE NETWORK TRL 9

CHECK YOUR BUZZWORDS

Dismounted, standalone data-centric network. A single Banshee private edge network node locally connects 100s of warfighters to applications, sensor systems, Internet of Things (IoT) devices, and each other; it hosts mission critical services and meshes to other systems.

Sensor-to-shooter, end-to-end integrated control. Optional reachback via any IP-based interface – SATCOM, mobile hotspot, wired internet, commercial cellular network, Wireless Local Area Network (WLAN). More than just enabling voice calls, text, and video streaming, Banshee networks connect control systems together, from the tactical edge to command located any place in the world.

Open standards and interoperability. Built on common standards maintained by the global 3GPP body. Billions in R&D invested by commercial carriers to optimize the network for hyper-connected digital data transport at the edge.



Banshee Mobile Radio (BMR)
Vehicle-Mount, 4G/LTE for up to 800



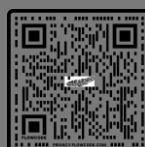
Banshee Tactical Radio (BTR)
Man-Portable, 4G/LTE for up to 256

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BANSHEE NETWORKS TACTICAL MOBILE BROADBAND



5G IS NOT JUST ANOTHER "G"

Despite publishing the **5G Strategy** in 2020, DoD has only just begun initiating experimentation with 5G – resulting in zero practical implementation to date. 5G boasts bandwidth but lacks tactical relevancy. A 5G network cannot operate on the move. 5G requires large antennas elevated on a mast (up to 30 meters) to achieve operational range. 5G does not work at low power, and you cannot put a 20W radio on a warfighter's back and send him out on a mission. The gear is too heavy, and exceeds power safety limits for proximity to the brain. 5G may be feasible for in garrison use, but it is still very far from tactically relevant.

AFFORDABLE TACTICAL BROADBAND IS AVAILABLE TODAY

Banshee 4G/LTE networks are robust with proven reliability. Install BMR on a vehicle or transport it in a case and set up at will. Deploy BTR with small dismounted squads for secure, high speed communications to control larger areas with robotics and drones. Economically outfit every warfighter with a handset for 1/10th the per connection cost of legacy single-function radios.

- Up to 300 Mbps download / 100 Mbps upload shared throughput
- 128 AES encryption, double-wrapped 256 AES, compatible with Type 1 encryptors, POR CSfC
- IP65 sand/dust and water resistant; built to MIL-STD 810 (certification pending)
- Operating: -40° to +131°F (-40° to +55°C) / Storage: -40° to +158°F (-40° to +70°C)
- LTE: 700 MHz–6 GHz, FDD Bands: 2/66, 1/3, 3/7, 1/7, 48 CBRS
- MANET backhaul: L, S, High C, Low C
- Band agile for frequency deconfliction and EW resilience
- FCC certification (pending)

EASY TO TRAIN

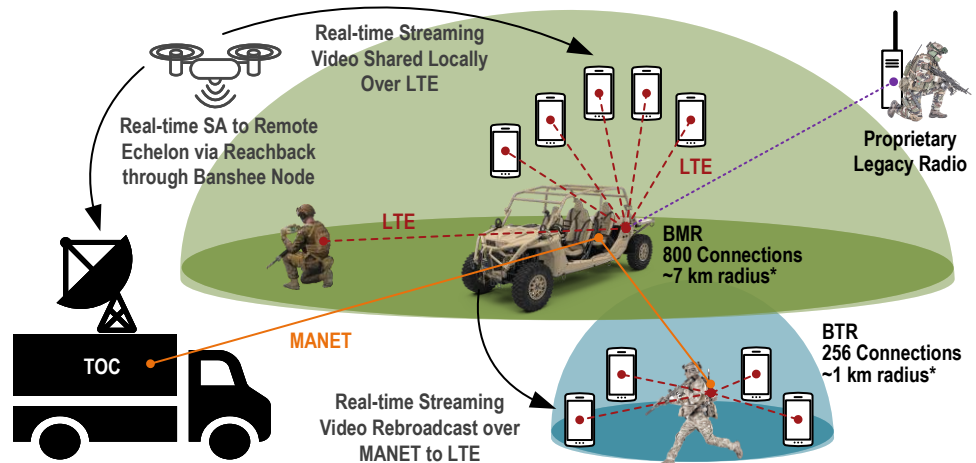
Ease of training is built in to Banshee nodes. Initial setup uses configuration scripts. The network management interface is customized with the non-engineer in mind. Any communications specialty is ready to deploy the Banshee network following a training class that we can deliver at our facility or at your site, anywhere.

EXTENDED SUPPORT

Banshee nodes include a 1 year warranty. There are no recurring license fees when you own the Banshee network. Remote telephone support is included. Onsite support is available.

SPECIFICATIONS	BMR	BTR
Form factor	Vehicle-mount or static	Man-portable (backpack)
End user connections:	800	256
LTE coverage area (radius)*	~7 km	~1 km
Power input	90-264 VAC, DC optional	Dual BA2590 (SINCGARS) batteries
Total RF TX power	20W	1W
Dimensions	15.16W x 8.86H x 7.28D in (385W x 225H x 185D mm)	11.7W x 18.2H x 5.5D in (297W x 462H x 140W mm)
Weight	24.25 lb (11 kg)	20.75 lbs (9.4 kg) incl. batteries

*Range based on ideal RF conditions and clear Line of Sight (LOS). Actual range will vary and may be less.



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