



StreamCaster NEXUS: the Individual Radio for Classified Data

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The true revolution on the battlefield today is not just the weapon the soldier carries in hand, but the data they carry on their chest. With the [StreamCaster NEXUS system, Silvus Technologies](#) introduces a new frontier: making sensitive and classified data available directly to tactical units on the ground, at the squad and individual operator level. A capability that, to date, is still lacking for most of the world's armies, where digital information often stops at the command level or, at best, at the vehicles.

Presented by Silvus (now part of the Motorola Solutions ecosystem), StreamCaster NEXUS was created as a communication hub mounted on the soldier's chest, designed to provide mission-critical connectivity on the move, even in scenarios characterized by strong electronic interference or a total absence of traditional infrastructures.

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The “bottleneck” of modern armies: data does not reach the tip of the spear

Many armed forces have invested in recent years in secure networks, data centers, advanced C4ISR capabilities, and digital command systems. However, the “last digital mile” – the ability to bring classified data in real-time to the soldier maneuvering on the ground – is still the weak point.

Often:

- intelligence information remains in command posts or operations rooms;
- video streams from drones and sensors are only seen at higher levels;
- maneuver units receive synthetic orders via voice radio, not complete data packets, updated maps, and real-time feeds.

The result is a paradox: sophisticated command systems at the strategic and operational levels, but a fighter on the ground who, in many armed forces, remains dependent on analog communications or limited networks, with data reduced to a minimum due to bandwidth, security, or reliability constraints.

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StreamCaster NEXUS: the soldier becomes a network node

StreamCaster NEXUS overturns this paradigm by transforming every operator into a true network node. The system integrates:

- **Silvus SM5200 mobile ad hoc radio (MANET)**
 - up to 2 watts of transmission power;
 - data rates exceeding 100 Mbps, sufficient for HD video, complex data, and continuous map updates;
 - compatibility with existing Silvus radios, to create dynamic meshes between vehicles, drones, sensors, and foot squads.

- **Integration with rugged smartphones (Samsung S23 / S23 TE)**

The phone becomes the user interface: maps, video, data messages, tactical chats, and specific applications (like ATAK) are displayed directly on the device used by the soldier.

- **Chest mount with Juggernaut Case**

The NEXUS is attached to the tactical vest via a chest mount designed to avoid bulk and cable tangles, while ensuring stability, accessibility, and ergonomics for prolonged operations.

The philosophy is clear: bring a complete “data station” to the soldier's chest, without weighing them down and maintaining operability even in extreme conditions.

Classified data “within chest reach”

The qualitative leap is not only in the amount of data but in the **quality and sensitivity of the information** that can be securely distributed at the tactical level.

Thanks to the combination of:

- **mobile ad hoc network (MANET)** resistant to node loss and obstacles;
- **secure communications** designed to operate even under electronic attack;
- **Ethernet and USB interfaces** to connect sensors, terminals, and additional devices,

StreamCaster NEXUS creates a secure and mobile hub where even sensitive data streams – updated operational maps, sitreps, video feeds from UAVs, targeting data, threat alerts – can be pushed to the squad on the ground.

NEXUS also leverages the **Android Team Awareness Kit (ATAK)** to provide:

- real-time location of friendly and interest units;
- dynamic mission updates;
- overlay of informational layers (threats, safe corridors, no-go areas) directly on the digital map.

For many armies, which still struggle today to systematically share even just friendly positions in real-time at the squad level, this represents a true paradigm shift.

Staying connected in contested environments

One of the strengths of StreamCaster NEXUS is the ability to maintain connectivity even in **contested environments**, where jamming, interference, and infrastructure destruction are the norm, not the exception.

The Silvus MANET network:

- creates multi-hop links between radios, vehicles, relays, and sensors, increasing resilience;
- reduces dependence on fixed or satellite infrastructures;
- allows command to maintain an updated “tactical picture” even when traditional networks collapse.

In practice, every soldier becomes both a user and a repeater of the network, contributing to the overall robustness of the communication scheme.

Conclusion: the soldier's chest as the new “gateway” to classified data

StreamCaster NEXUS is not simply a new radio device: it is an **operational concept** that brings the heart of the network – and therefore classified data – from the command level to the squad and soldier level.

News link: <https://silvustechnologies.com/wp-content/uploads/2025/10/StreamCaster-NEXUSProduct-Brochure.pdf>