



Bittium and NestAI bring adaptive AI to mission-critical communications

Bittium Corporation
Press Release

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By integrating NestAI's NestOS as the AI foundation for Bittium's tactical systems, military operators gain intelligent routing and acoustic sensing capabilities that work reliably in the most demanding conditions.

Bittium and NestAI have announced a partnership to bring adaptive intelligence to tactical communications, with NestOS powering AI capabilities in two Bittium products; Bittium Tough SDR™ radios and Bittium FUSOR™. In the first phase of the collaboration, the AI capabilities will be integrated into the two products to enhance the performance and situational awareness of tactical systems.

Modern military operations depend on communication networks that span tactical radios, civilian infrastructure and everything in between. The challenge is no longer only to manage these networks reliably and securely in real time, but to keep them adapting as fast as the battlefield changes. This collaboration addresses that challenge directly, with solutions that can be deployed through Bittium's existing product portfolio.

The collaboration pairs Bittium's proven tactical communications systems with NestAI's NestOS, an open and modular AI platform. Running as an intelligence layer alongside Bittium's products, NestOS adds adaptive decision-making that allows both companies to continuously develop new capabilities, designed to keep Bittium's customers' systems evolving alongside the operational environment and gain new AI capabilities rapidly and continuously.

The first capability is cognitive routing for Bittium's FUSOR™ software router. FUSOR already serves as the backbone for hybrid communication environments, connecting tactical networks with 5G and other available infrastructure. Integrating NestOS enables FUSOR to make routing decisions automatically, based on network availability, capacity, and operational policies. This means better use of available connectivity and stronger operational security, without adding complexity for the operator.

The second capability turns Bittium's tactical radios into distributed sensor networks. AI software is added to the radios, using existing microphones as sensors and leveraging NestOS edge computing. This enables them to detect events such as drone activity or explosions and to support a real-time operational picture. Combined with radio spectrum sensing and other data sources, this gives the users a continuously updated view of their surroundings.

Bittium will bring both solutions to market as part of its product portfolio. "This partnership lets us take capabilities our customers already trust and make them significantly more capable" said **Petri Toljamo, CEO, Bittium**, "AI is becoming decisive in contested environments, making things faster and more reliable." **He continues** "Defence communications is entering a new era, and we intend to lead that transition. Partnering with NestAI allows us to combine our expertise in tactical networks with AI capabilities that are genuinely useful in the field, not theoretical."

"The modern battlefield moves faster than fielded systems can adapt, and staying ahead now depends on adaptive intelligence. That is what this partnership adds into Bittium's systems: NestOS brings the intelligence to the radios and networks themselves, at the edge rather than in the cloud, so they can sense and decide in the field. It keeps those systems adapting to the battlefield and improving also after deployment. We bring the intelligence, Bittium brings the systems operators already trust" says **Peter Sarlin, Founder and Executive Chairman of NestAI**.

For more information about Bittium, visit: www.bittium.com/defence-security

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Bittium Defence & Security

As a trusted supplier in the Defence & Security market with 40 years of experience in advanced radio communication technologies, we provide next-generation resilient and mobile tactical communications systems for defence forces and secure communication solutions for governments and authorities. Our products and systems for tactical communications bring broadband data and voice seamlessly to all troops across multi-domain operations. The offering is completed by mobile devices and cyber security solutions certified up to CONFIDENTIAL and NATO Restricted levels.

In addition to the products and systems supplied to the Defence & Security market, Bittium offers solutions focused on measuring and processing of biosignals as well as R&D services and wireless embedded solutions. Bittium's net sales in 2025 were EUR 119.3 million and operating profit EUR 19.4 million. Bittium is listed on Nasdaq Helsinki. www.bittium.com

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About NestAI:

NestAI is a European AI lab for defence that delivers the adaptive operating system for modern battlefield operations. Through NestOS, the company enables adaptive intelligence for unmanned and command systems, AI that continuously learns from operational data and adapts to changing conditions. NestOS is an open, modular and interoperable platform that enables multi-vendor integration without vendor lock-in and preserves long-term European control over critical AI capabilities.

Founded in 2025, NestAI has raised €100M from Nokia and Tesi and grown to a team of more than 150 engineers and scientists working with the Finnish Defence Forces and other European Defence Forces as well as leading industry partners like Patria and FORCIT Defence. www.nestai.com