Bittium TAC WIN Smart Link 360™ Delivers Revolutionary Performance to Tactical Communications

Bittium Corporation
Press Release

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Bittium introduces the new Bittium TAC WIN Smart Link 360™ functionality to its Bittium TAC WIN Waveform™. Smart Link 360 is the world's first solution whose adaptive and fully automated directional antenna functionality further enhances extreme protection against jamming and significantly improves performance for broadband tactical communications on the battlefield. The solution leverages directional antennas instead of omnidirectional ones in wireless and mobile MANET (mobile ad hoc network) environments, while extending MANET capabilities into link networks. As part of the TAC WIN Waveform, and together with Bittium Tactical Wireless IP Network™ (TAC WIN) Radio Head III and IV units as well as Bittium Tough SDR Vehicular™ radios, Smart Link 360 reinforces the advanced and unique qualities of Bittium's comprehensive tactical communications system.

Smart Link 360 enables electronic antenna beam steering across a full 360-degree range. With this functionality, neighboring nodes in the network are automatically identified, enabling fast and effortless link creation without operator intervention. It supports full mesh topology —direct node-to-node connectivity that allows multiple transmission routes—and ensures mobility by dynamically tracking node movements. This makes Smart Link 360 ideally suited for both link networks and mobile nodes. Powered by the advanced TAC WIN routing algorithm, Smart Link 360 further increases network resilience by automatically directing antenna beams toward the optimal communication path while mitigating interference from other directions. The Bittium TAC WIN Network Manager Tool™ provides operators with real-time visualization of both network topology and antenna beam orientation.

"The advanced TAC WIN Waveform, together with the new Smart Link 360 functionality, particularly supports the rapid operations of mobile forces, delivering significant performance advantages in command and control. A key benefit is the increased automation of the communications network, which is especially critical for unmanned vehicles. We have refined these capabilities in the European iMUGS program, which is developing next-generation unmanned systems for the battlefield. With Smart Link 360, we are addressing both current and future customer requirements," said Tommi Kangas, Senior Vice President, Defense & Security business segment at Bittium.

Bittium will showcase the TAC WIN Smart Link 360, along with other solutions for tactical communications, at stand N8-250 during the DSEI UK exhibition, September 9–12, 2025.

Further information:

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Bittium - Defense & Security

As a trusted supplier in the Defense & Security market with 40 years of experience in advanced radio communication technologies, we provide next-generation resilient and mobile tactical communications systems for defense 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 the battlefield. 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 Defense & 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 2024 were EUR 85.2 million and operating profit EUR 8.6 million. Bittium is listed on Nasdaq Helsinki. www.bittium.com

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