



Bittium Corporation's Tactical Backbone Network Selected as Part of the New Austrian Defense Forces' Tactical Communication System

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Oulu, Finland, December 4, 2018 – Bittium announced on November 23, 2018, that its cooperation partner, Austrian information technology company Kapsch BusinessCom AG was informed by the Austrian defense administration (Bundesministerium für Landesverteidigung BMVL) that it should be selected as the provider of the new IP-based tactical communication system for the Austrian defense forces in case no appeals by the losing parties of the competitive bidding will be filed during the next 10-days appeal period. This is a typical process in such public competitive bidding. The 10-day appeal period has expired and no appeals have been filed. The signing of the contract is scheduled to December 2018.

Bittium's products for tactical communications are a significant part of Kapsch BusinessCom's winning bid, including the Software Defined Radio based **Bittium Tactical Wireless IP Network™** (TAC WIN) system, which will be the core of the new communication system, as well as Bittium Tough Comnode™ and Bittium Tough VoIP™ products.

Bittium's share of the total value is around EUR 30 million (excl. VAT). The product deliveries are expected to take place during the years 2019-2021 and the majority of the net sales is estimated to realize during the years 2020 and 2021. This does not change Bittium's financial outlook for the year 2018, published on August 8, 2018 in the company's half year interim report.

Oulu December 4, 2018

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Bittium

Bittium specializes in the development of reliable, secure communications and connectivity solutions leveraging its 30 year legacy of expertise in advanced radio communication technologies. Bittium provides innovative products and services, customized solutions based on its product platforms and R&D services. Complementing its communications and connectivity solutions, Bittium offers proven information security solutions for mobile devices and portable computers. Bittium also provides healthcare technology products and services for biosignal measuring in the areas of cardiology, neurology, rehabilitation, occupational health and sports medicine. Net sales in 2017 were EUR 51.6 million. Bittium is listed on Nasdaq Helsinki. www.bittium.com

Bittium Tactical Wireless IP Network™

Bittium Tactical Wireless IP Network (TAC WIN) is a Software Defined Radio based wireless broadband network system intended for military and public safety use. With the system MANET (mobile ad hoc network), link, and connection networks can be formed into one logical IP network quickly, no matter what the location is. Bittium TAC WIN is compatible with existing fixed and wireless network infrastructures. The core of the system is a tactical router that enables users to freely form both wired and wireless broadband data transfer IP connections. Tactical router enables also connections to different types of terminals and other communication systems connecting them into a one communication network. In addition to the router the system comprises three types of radio heads, and each radio head covers its own frequency band area and can be used for flexible formation of optimized network topologies for different communication needs. All the products of the system are designed for harsh conditions, and thanks to the system's automated functions the implementation of the system can be done quickly. Due to the software-based functionality of the Bittium TAC WIN system, it can be easily updated with additional performance cost-efficiently during the whole lifespan of the system.

More information on the Bittium TAC WIN system and the related products:
https://www.bittium.com/products_services/defense/bittium_tactical_wireless_ip_network.

Bittium Tough VoIP™ product family

Bittium Tough VoIP product family's products enable tactical IP calls and broadband data transfer even in the most demanding conditions. Products can also be easily integrated with an existing IP infrastructure. Bittium Tough VoIP Service™ software product connects both fixed data network users and wireless tactical data network users to the same voice service network. This significantly improves the capability to lead troops and maintain situational awareness in the quickly changing conditions of the battlefield.

More information on Bittium Tough VoIP products: https://www.bittium.com/products_services/defense/bittium_tough_voip.

Bittium Tough Comnode™

Bittium Tough Comnode fulfills the data transfer needs of mobile troops by functioning for example as a VoIP phone (Voice over IP), an IP router (Internet Protocol), and an SHDSL repeater (Symmetrical High-speed Digital Subscriber Line). Additionally, Bittium Tough Comnode also provides SIP (Session Initiation Protocol) server functionalities of the tactical voice network for commercial VoIP terminals and enables using also legacy Combat Net Radios (CNR) as part of the IP-based tactical communication system (Radio over IP, RoIP).

More information on Bittium Tough Comnode terminal: www.bittium.com/BittiumToughComnode.