
Communications Research Centre and Defence R&D Canada select Newtrax Technologies Inc. as an industry partner for a \$1.5M contract to provide mesh networking platform

MONTREAL, Quebec – March 10, 2008 – Newtrax Technologies has been selected as an industry partner for the Self Healing Autonomous Sensor Network (SASNet) technology demonstration project established by the Communications Research Centre (CRC), a branch of Industry Canada, and Defence Research and Development Canada (DRDC). This contract, estimated to \$1.5M over a 30-month period, was awarded to Newtrax to provide a battery-powered wireless sensor network platform over which SASNet will be built.

To meet the needs of contemporary operations, the Canadian Forces require ground-based Wireless Sensor Networks (WSN) that can perform integrated surveillance tasks to detect, classify and localize hostile forces 24-hours a day in all weather conditions. Although current unattended ground sensor (UGS) systems can achieve some of these objectives, advances in ad hoc sensor network communications, packaging, and networking and sensing technologies are required to obtain cost-effective, easily deployable, remotely configurable, and accurate surveillance systems. The mesh networking technology from Newtrax offers a decentralized ad hoc architecture combined with Frequency Hopping Spread Spectrum RF links that provide the most resilient, scalable and flexible platform needed for building low cost and low power UGS. Furthermore, each mesh node can be tuned to operate anywhere between 100 MHz and 1 GHz. This flexibility in frequency band of operation enables a cost-effective way to maximize RF propagation while minimizing probability of detection or interception.

“We are very excited that Newtrax has been selected as the industry partner for SASNet. We believe this is a testament to the unique strengths and capabilities of our battery-powered wireless mesh/FHSS networking technology,” said Alexandre Cervinka, Founder and CEO of Newtrax Technologies. “Newtrax nodes autonomously build routing tables and can provide the embedded application with ad hoc multihop unicast and broadcast services. Other WSN systems require a central network coordinator for multi-hop communications, which creates a single point of failure and limits scalability”.

The concept of SASNet is to use a large number of basic inexpensive and expendable sensors such as RF, acoustic, seismic, passive infrared and magnetic sensors that can cue more complex and expensive sensors such as electro-optical imaging devices. In addition to providing the battery-powered mesh networking platform for SASNet, Newtrax will also provide its patent-pending RF Tripwire sensor which will act as a vigilant sensor to trigger more complex and power hungry sensors. This unique intrusion detection system monitors signal strength variation between two nodes using the same radio components used for communications. Algorithms perform trend analysis on the received signal strength to create a tripwire that is immune to the presence of vegetation or small obstacles between the pair of nodes.

For more information about the Newtrax wireless mesh networking technology, please contact us directly or visit our website: <http://www.newtraxtech.com>.

About Newtrax Technologies – www.newtraxtech.com

Founded in 2002, Newtrax Technologies Inc. is an employee owned company with headquarters in Montreal, Canada. The company's vision is to provide the most reliable, user friendly and cost effective solutions for monitoring, control, messaging and tracking in harsh environments without grid power outlets. Solutions provided by Newtrax are based on its advanced wireless mesh/FHSS networking protocol and RF-based motion and proximity sensor. Benefits include low installation costs of large networks, range extension with multiple battery-powered hops and new applications in dynamic or hazardous environments where wires are not an option. The company's intellectual property portfolio includes several patents pending and industrial secrets.

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