

**F O R . I M M E D I A T E . R E L E A S E**

**Spectrum and GateHouse to Demonstrate Live Software Defined Implementation of the Inmarsat BGAN Waveform**

Enabling beyond-line-of-sight, line-of-sight, satellite and terrestrial communications on a single modem hardware platform

**Burnaby, B.C. – November 19, 2009** - Spectrum Signal Processing by Vecima ("Spectrum"), an advanced custom radio provider, and GateHouse, a leader in satellite communications software, today announced they will be demonstrating a software defined radio (SDR) implementation of the Inmarsat Broadband Global Area Network (BGAN) waveform on Spectrum's *flexComm*™ SDR-4000 transceiver at Booth 25 during the SDR Forum Product Expo happening December 2-3, 2009 in Washington, DC. Visitors to the booth will be able to access the internet live via the Inmarsat satellite network.

The Inmarsat BGAN SDR Waveform will enable radio and satellite terminal manufacturers to implement on-demand beyond line-of-sight (BLOS) capability on their products or systems. By using a software reconfigurable hardware platform such as the SDR-4000, a single radio and terminal can support a variety of terrestrial, satellite, BLOS and line-of-sight (LOS) waveforms.

"The Inmarsat BGAN SDR waveform demonstration validates Spectrum's SDR-4000 as the commercial-off-the-shelf (COTS) platform of choice to enable rugged, multi-purpose terminal solutions that can operate across different networks and enable interoperable communications," said Mark Briggs, Vice President of Business Development at Spectrum. "The SDR-4000 offers terminal and gateway manufacturers the ability to update their systems as needed over time through software instead of expensive hardware upgrades, ultimately reducing the total cost of ownership for their end customers."

"For the first time it is possible to enable software defined radios to take advantage of Inmarsat's Broadband Global Area Network, and GateHouse's Inmarsat BGAN SDR waveform offers a commercially available software implementation," said Pia Ankerstjerne, Vice President of GateHouse USA. "The availability of the BGAN SDR waveform opens a new method to establish broadband satellite communication on the move, in the air or at sea, even in the most remote areas, using the same hardware as is used for other means of communication."

"Inmarsat is excited to support this joint initiative from Spectrum and GateHouse to offer an SDR implementation of the BGAN waveform," said Marcus Vilaca, Chief Scientist at Inmarsat. "We hope this will further the adoption of BGAN by commercial and military users."

**Demonstration Overview**

Visitors will be able to see a BGAN Class 10 (Land Mobile) terminal running the BGAN SDR Waveform at Booth 25 during the SDR Forum Product Expo. Visitors will be able to use the terminal to access the Internet via the Inmarsat satellite network at speeds of up to 492 kbps bi-directional. The BGAN SDR waveform runs on the SDR-4000 software reconfigurable transceiver hardware, and utilizes a full Software Communications Architecture (SCA) core framework.

For more information, please contact [sales@spectrumsignal.com](mailto:sales@spectrumsignal.com).

**About SDR-4000**

The SDR-4000 is a multi-purpose reconfigurable transceiver that supports waveforms such as:

- Inmarsat BGAN
- Wideband Networking Waveform (WNW) Orthogonal Frequency Division Multiplexing (OFDM) mode
- Soldier Radio Waveform (SRW) Electronic Warfare (EW) mode
- Single Channel Ground and Airborne Radio System (SINCGARS)
- Future Multiband Multiwaveform Modular Tactical Radio (FM3TR)
- APCO Project 25 (P25)

The SDR-4000 is available in air-cooled packages for benign environments or conduction-cooled packages for deployments in harsh environments. The SDR-4000 is available with a real-time operating system, *quicComm*™

hardware abstraction layer and API library, and Communications Research Centre Canada (CRC) SCARI Software Suite, a complete development environment for the SCA.

For more information on the SDR-4000, please visit [www.spectrumsignal.com/products](http://www.spectrumsignal.com/products).

#### **ABOUT INMARSAT BROADBAND GLOBAL AREA NETWORK**

Inmarsat BGAN is a 3G satellite communications system, operated by Inmarsat LLC. The system is served by three geo-stationary satellites and supports circuit and packet switched services with data rates up to 492 kbps bi-directionally. Most terminal manufacturers use GateHouse Inmarsat BGAN software for land-portable, aeronautical, maritime, and vehicular products. The Inmarsat BGAN SDR Waveform software being ported on to the SDR-4000 will support all UE (User Equipment) classes and includes the field programmable gate array (FPGA), digital signal processor (DSP), and the general purpose processor (GPP) components of both the physical and protocol layer of the waveform.

#### **ABOUT SPECTRUM SIGNAL PROCESSING BY VECIMA**

Spectrum Signal Processing delivers advanced reconfigurable radio technologies that connect the complex world. Spectrum's products and services enable customers to reduce their total cost of ownership through managing and maintaining their own intellectual property (IP). Spectrum has worked with commercial and military customers worldwide to develop and deliver solutions optimized for satellite, communications, and video markets. Applications include air-to-ground communications, satellite communications, military communications, signals intelligence, surveillance, electronic warfare, and video distribution. For more information on Spectrum and its products, please visit [www.spectrumsignal.com](http://www.spectrumsignal.com). Spectrum is part of Vecima Networks Inc.

Vecima (TSX:VCM) designs, manufactures and sells products that enable broadband access to cable, wireless and telephony networks. Vecima's hardware products incorporate original embedded software to meet the complex requirements of next-generation, high-speed digital networks. Service providers use Vecima's solutions to deliver services to a converging worldwide broadband market, including what are commonly known as "triple play" (voice, video and data) and "quadruple play" (voice, video, data and wireless) services. Vecima's solutions allow service providers to rapidly and cost-effectively bridge the final network segment that connects the system directly to end users, commonly referred to as "the last mile," by overcoming the bottleneck resulting from insufficient carrying capacity in legacy, last mile infrastructures. Vecima's products are directed at two principal markets: Converged Wired Solutions and Broadband Wireless. The Company has also developed, and continues to focus on developing, products to address emerging markets such as Voice over Internet Protocol, fibre to the home and IP video. For more information, visit [www.vecima.com](http://www.vecima.com).

#### **ABOUT GATEHOUSE A/S**

GateHouse specializes in technical software development and system integration for advanced satellite communications and tracking systems. GateHouse is the leading independent provider of complete embedded software for Inmarsat BGAN terminals and a Software Defined Radio competence centre that provides an SCA compliant BGAN waveform. GateHouse provides tracking solutions using the unique and generic ghTrack™ software platform that is a solid foundation for any tracking, monitoring and control solution of the future. Furthermore, GateHouse offers consultancy services in the defence market. For more information please visit: [www.gatehouse.dk](http://www.gatehouse.dk)

#### **FORWARD-LOOKING SAFE HARBOUR STATEMENT**

Certain statements in this news release may constitute forward-looking statements which involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company, or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. When used in this news release, such statements are generally identified by the use of such words as "may", "will", "expect", "believe", "plan", "intend" and other similar terminology. These statements reflect Vecima's current expectations regarding future events and operating performance and speak only as of the date of this news release. Forward-looking statements involve significant risks and uncertainties, should not be read as guarantees of future performance or results, and will not necessarily be accurate indications of whether or not such results will be achieved. A number of factors including, but not limited to, the factors discussed under "Risk Factors" in the Company's Annual Report dated September 28, 2009 available on SEDAR ([www.sedar.com](http://www.sedar.com)), could cause actual results to differ materially from the results discussed in the forward-looking statements. Although the forward-looking statements contained in this news release are based upon what management of the Company believes are reasonable assumptions, the Company cannot assure investors that actual results will be consistent with these forward-looking statements. These forward-looking statements are made as of the date of this news release, and the Company assumes no obligation to update or revise them to reflect new events or circumstances.

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**SPECTRUM CONTACT**

**Mark Briggs**

Vice President Business Development  
Spectrum Signal Processing by Vecima  
Tel: 604.676.6743  
Email: [mark\\_briggs@spectrumsignal.com](mailto:mark_briggs@spectrumsignal.com)

**VECIMA CONTACT**

**Alan Brick**

Investor Relations Officer  
Vecima Networks Inc.  
Tel: 250.881.1982  
Email: [invest@vecima.com](mailto:invest@vecima.com)

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