



# News

***For Immediate Release***

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## **Syntonics Awarded Two DOD SBIR Contracts for Novel Antennas**

COLUMBIA, MD. May 28, 2004 . . . Syntonics LLC, based in Columbia, Md., announced today it has been awarded two antenna technology development contracts. The first contract is for a "tool kit" of handheld VHF and UHF antennas for the Special Operations Command (SOCOM). The second contract is for a feasibility investigation of a multi-band satellite communications antenna for the Space and Naval Warfare Systems Command (SPAWAR). Syntonics proposed both jobs teamed with the ElectroScience Laboratory of The Ohio State University.

"Our interest in RF communications has led us to focus on novel antennas for military customers with unusual requirements," said Bruce Montgomery, president, Syntonics. "By combining our engineering capabilities with a world-renowned antenna research facility, we are able address very challenging customer requirements."

The first effort is a Phase I SBIR contract to develop handheld antennas for military reconnaissance missions. Syntonics will develop a suite of VHF and UHF antennas for tactical radios such as the MBITR or MBMMR. The antennas will provide good gain, be pocket-portable, and have a low visual profile. This project addresses specific communications requirements of SOCOM, but these antennas should also become popular with other military and civilian users of hand-held radios.

The second effort is also a Phase I SBIR contract to investigate the feasibility of a novel tri-band antenna with frequency selective surfaces. U.S. Navy ships must be capable of receiving weather data from several planned and heritage satellite systems in the L, S, and X frequency bands. However, existing shipboard antenna systems receive only L- and S-band signals. Syntonics will study a tri-band antenna with three independent antenna arrays, one each for L-, S- and X-band reception, and a mechanical design that permits independent pointing and nests all three arrays within a single radome.

Syntonics is a privately held specialty defense electronics company that develops tactical RF-over-fiber communication systems, unique antennas, and advanced GPS holdover clocks. The company also provides engineering services to customers in the aerospace and defense industries. For more information on Syntonics and its products, please see the company's website at [www.SyntonicsCorp.com](http://www.SyntonicsCorp.com).