

Department of the Navy SBIR/STTR Transition Program

Statement A: Approved for Release. Distribution is unlimited.

Topic # N131-029

MAGIC (R) Filter Anti-Jamming Capability for RT-1944/U Radio

Adaptive Dynamics, Inc

WHO

SYSCOM: NAVSEA

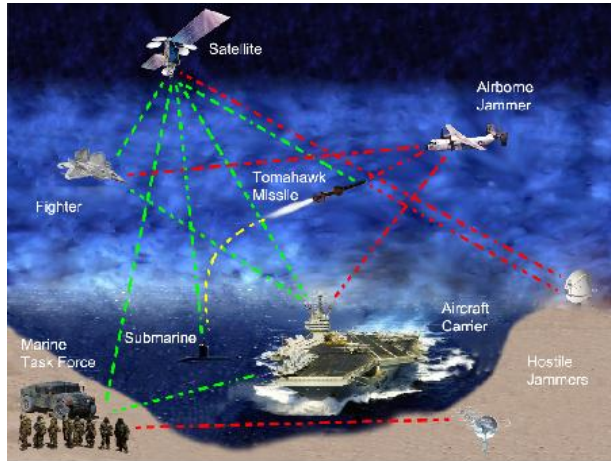
Sponsoring Program: Littoral Combat Ship (LCS)

Transition Target: LCS, PMS 420

TPOC:
(850) 235-5883

Other transition opportunities: Transition to PMS-420 Multiple Vehicle Communication System (MVCS) project. MVCS is used of communications between LCS and its unmanned systems.

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WHAT

Operational Need and Improvement: Ability for LCS to communicate with its unmanned systems in a radio frequency jamming environment

Specifications Required: Retrofit anti-jamming capability into a radio that wasn't designed for it at the outset

Technology Developed: Innovative anti-jamming capability developed for a circuit board that fits into the slots available in the designated shipboard radio

Warfighter Value: Maintains operational capability in a severe jamming environment

WHEN

Contract Number: N00024-14-C-4588 **Ending on:** September 28, 2016

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Preliminary Design Review	Low	COTS prototype for proof-of-concept demonstration. Initial design of custom hardware that meets operational needs	5	April 2015
Critical Design Review	Med	Complete design to meet, thermal, radio frequency and space constraints	5	September 2015
Delivery of Prototype with Initial Operational Capability	Med	Deliver boards for prototype testing. Successful demonstration of out-of-channel anti-jamming capability	6	January 2016
Testing of prototype boards with MAGIC Filtering Capability	Med	Successful demonstration of co-channel and out-of-channel anti-jamming capability	7	August 2016

HOW

Projected Business Model: Adaptive Dynamics will supply boards to NAVSEA for integration into the RT-1944/U radios

Company Objectives: Expand the set of tactical applications for our anti-jamming technology and become a leading supplier of interference mitigation systems to the DoD

Potential Commercial Applications: The RT-1944/U radio operates in the commercial WiFi band. Consequently the technology can potentially be adapted to a number of commercial systems to minimize interference.

Contact: Dr. Brandon Zeidler, President and CTO, Adaptive Dynamics, Inc
brandon@adaptive-dynamics.com 858 673-1016