

Countering GPS Interference

Mission Need: Develop a means to detect, localize, alert, and mitigate sources of GPS interference in the maritime domain.

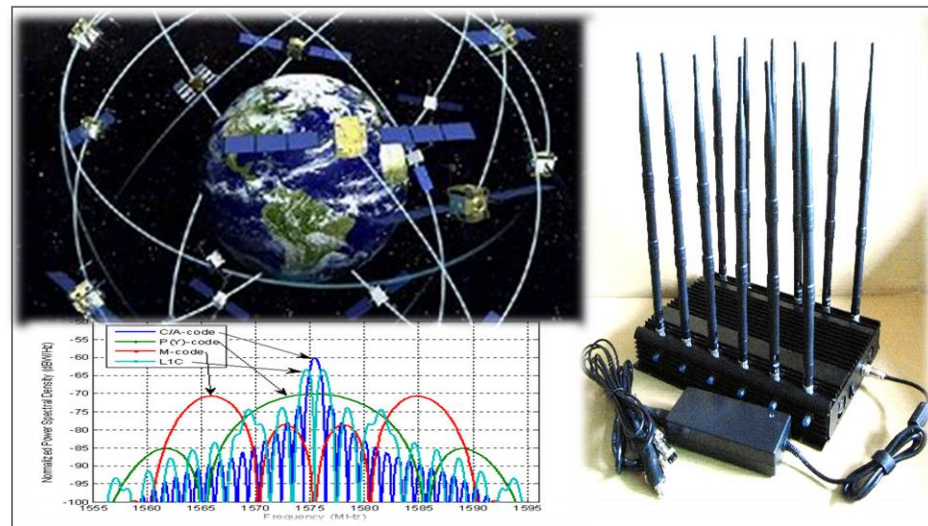
Project Objectives:

- Develop wide area GPS interference detection based on existing networks of GPS receivers such as Nationwide Automatic Identification System (NAIS).
- Investigate GPS interference mitigation technologies to counter effects aboard Coast Guard vessels. Investigate tactical GPS interference detection capability for CG units to operate to find GPS interference sources.
- Develop notification methods for maritime users via marine safety information methods such as Broadcast Notice to Mariners (BNM), Automatic Identification System (AIS) Application Specific Messages (ASM) and Navigation Data (NAVDAT).
- Bring maritime experience to DHS S&T First Responders Group (FRG) Position, Navigation and Timing (PNT) efforts.

Key Milestone / Deliverable Schedule:

Project Start.....	14 Jun 18 ✓
Test CG GPS units at U.S. Army CERDEC.....	Nov 18
DHS S&T GPS Equipment Tests	Sep 18
★ Countering GPS Interference Interim Brief	Mar 19
Demonstration of Wide area GPS interference detection.....	May 19
★ Countering GPS Interference Final Report and Brief	Nov 19
Project End.....	Nov 19

★ Indicates RDC product.



Sponsor: CG-NAV
Stakeholder(s): CG-68, CG-761, CG-791, C4IT SC, C3CEN, NAVCEN, DHS S&T (FRG)

Project #: 2218
Anticipated Transition: Knowledge Product
 Influence Tactics, Techniques & Procedures

Notes:

- Partner with U.S. Army Communications-Electronics Research, Development and Engineering Center (CERDEC) and Air Force Research Lab (AFRL).
- Continue working with DHS S&T (FRG) PNT Program.
- Leverage GPS/AIS results from RDC Project 8502: Cybersecurity Vulnerabilities, Threats and Risk Mitigation Strategies for CG Surface and Air Assets.

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USCG GPS Test gear on site



★ Indicates RDC product.



Acquisition Directorate
Research & Development Center

10/17/2012
Version date

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