

Systems Interoperability Filter

Terasys Technologies LLC

Neil Kamikawa

HTDV



Problem

- Co-site interference prevents multiple, co-located radios from communicating simultaneously
- Problem is suffered by DoD & Commercial systems
 - Counter Remote-Controlled-IED Electronic Warfare (CREW)
 - Mobile, Modular Command and Control (M2C2)
 - Joint Tactical Radio System (JTRS)
 - Shipboard antennas
 - Commercial aviation

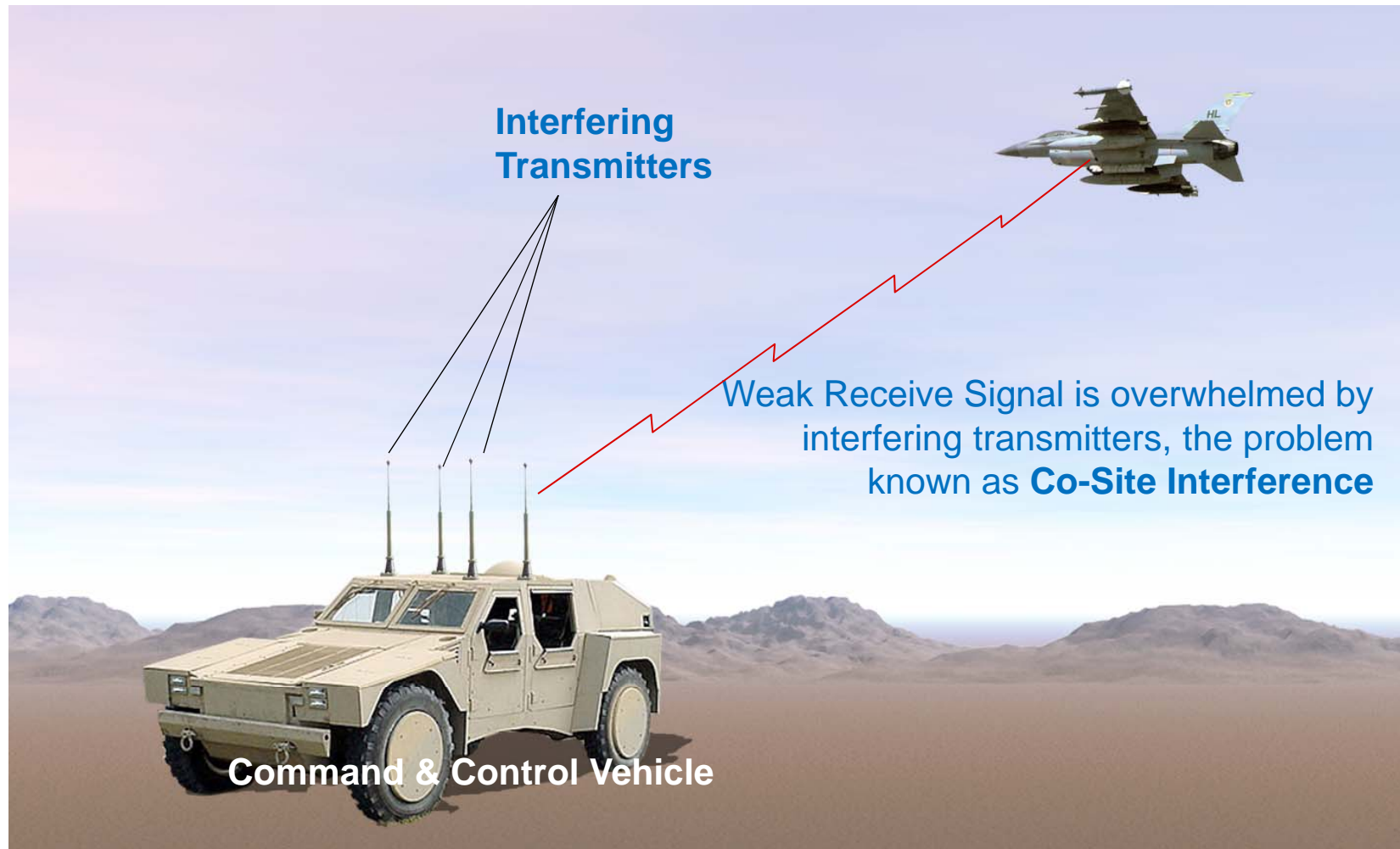
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Co-site Interference Example



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Solution

- A filter that absorbs interfering signals before it leaves a transmitter, but passes critical signals
 - A filter that absorbs (rather than reflects) high power interfering signals
 - Existing filters reflect power back into transmitter, which damages or degrades transmitter
 - A filter that is small in size

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Team

- Terasys Technologies Team members
 - Kevin Miyashiro, President
 - Ky-Hien Do, Chief Scientist
 - Karen Miyashiro, Executive Assistant
 - Jason Horiuchi, Principal Engineer
 - Dr. Chris Nichols, Senior Program Manager
 - Lyn Lamoreaux, Office Mgr/Project Assistant
 - Neil Kamikawa, Senior Engineer
- Unique advantages
 - Demonstrated feasibility of an RF Absorptive Filter
 - Personnel with >57 years of cumulative experience in RF and microwave engineering

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Status

- Achievements to date:
 - Designed, built, & tested an absorptive filter
 - Applied for U.S. Patent
- Next major milestones:
 - Deliver filters to Marine Forces, Pacific for testing (Aug 2009)
 - Evaluate test data (Sep 2009)
 - Prepare filter for production (Oct 2009)

Company Profile

- Company name: Terasys Technologies LLC
- Date Founded: September 2007
- No of employees: Seven
- DBAs: NA
- Business areas: Military and commercial wireless communications
- Latest or most relevant Product:
 - Radio-Frequency Absorptive Filter (RAF)
- Company logo



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RF Absorptive Filter



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