

CAPABILITIES STATEMENT

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DOCUMENT PURPOSE

This document is meant to provide the reader a general understanding of the capabilities of Fidelity Comtech and its core products. It is not all inclusive and we expect it will need to be revised frequently as we continue to add capabilities and products to our portfolio. Please call one of the designated contacts in section 4 for more information.

CAPABILITIES STATEMENT

1. GENERAL INFORMATION

Registered Company Name: Fidelity Comtech, Inc.
 Company Size/Classification: Small Business
 Small DBA: "Fidelity Comtech" or "FCI"
 Office Telephone: 303-678-8876
 Web Site: www.fidelity-comtech.com
 DUNS Number: 125635164
 CAGE/NCAGE: 3S4Z6
 GSA Contract Number: None

2. BUSINESS INFORMATION

Year Incorporated: 2001
 State of Incorporation: Colorado
 Number of employees: 10
 Number of active contractors: As needed

3. LOCATION

Headquarters
 Fidelity Comtech, Inc.
 1500 Kansas Avenue, Suite 2D
 Longmont, CO 80501
 U.S.A.
 PH: 303-678-8876
 FX: 303-362-7545
 EM: info@fidelity-comtech.com
 WS: www.fidelity-comtech.com

4. KEY CONTACTS

Joseph M. Carey (Joe)	Richard C. Krebs (Richard)	Robert P. Weaver (Bob)
President	Vice President Sales and Marketing	Vice President Advanced Technologies
303-678-8876 ext. 12	303-678-8876 ext. 14	303-678-8876 ext. 19
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5. ABOUT FIDELITY COMTECH

Fidelity Comtech is a small high technology wireless applied research, development, manufacturing and engineering services company.

Fidelity Comtech has developed and is currently marketing products based on the exciting FlexVMT™ technology for instantly adapting antennas to changing situations. This patented technology has been validated by projects and products for agency and military customers and products for the transportation and logistics industry.

Since its formation in 2001, Fidelity Comtech, Inc. has been awarded numerous U.S. Government engineering services and development contracts. The success of our contracts along with our commercial products enabled the development of the Company's patented FlexVMT, the technology that forms the core of the Phocus Array™ System. The Phocus Array System is the company's second product line and is being manufactured using proven processes devel-



oped for its legacy amplifier product line. The Phocus Array Systems are certified by the Federal Communications Commission.

Fidelity Comtech is the *only* company that offers Dynamic Beam Steering and Shaping (DBSS) products for extended area wireless LANs. DBSS has been extensively tested by various government agencies and is now the preferred system for physically locating mobile wireless stations. The FlexVMT technology while considerably smaller, lighter, and faster than previous alternatives, makes previously unaffordable phased array technology very economical for the private sector.

In addition to the stand-off wireless coverage and range, Fidelity Comtech has demonstrated its leadership in wireless Geo-Location software technology in its government hardware and software products that take advantage of the FlexVMT to deliver precise and systematic Geo-Location capabilities for Real Time Location Service applications (RTLS). RTLS, as the next generation of asset tracking beyond RFID, is an emerging market where the company has a strong and differentiated competitive advantage.

The Phocus Array System meets the combined needs of the ever-expanding Extended Range Wireless LAN and wireless Geo-Location markets. The 8 element Phocus Array System typically extends the range of normal Wi-Fi devices by four times (4X), can run full motion video applications over Wi-Fi up to 15 miles, has “visual stealth” long haul transmissions, and has unparalleled security capabilities. The system can also provide the dynamic tracking of high-value assets in large wireless environments using “Geo-Location” techniques.

This is also important in applications such as:

1. Intrusion Detection Systems (IDS), where unauthorized or rogue devices must be located and disconnected from the network. A DoD customer has asked the Fidelity Comtech team to provide a Geo-Location capability for its Wireless Intrusion Protection System. Several government customers who have access to a wide range of classified technologies have testified that the Phocus Array System provides the best Geo-Location capability available.
2. Tracking dynamic communications for real-time standoff uses in the military or agency operational arena on airborne, land and sea based mobile and fixed platforms.

A typical commercial application for the Phocus Array System is providing “stand-off” wireless coverage for tracking automobiles or containers located in very large lots during the import and export process. Both environments are constantly changing and with all of the reflective surfaces are rated as very harsh wireless environments where *only* a Phocus Array System can perform successfully.

6. NAICS CODES

- 334210 Telephone apparatus manufacturing
- 334220 Radio and Television Broadcasting and Wireless Communication Equipment
- 334290 Other Communications equipment manufacturing
- 334511 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
- 334515 Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals
- 334519 Other Measuring and Controlling Device Manufacturing
- 541330 Engineering Services
- 541710 Research and Development in the Physical, Engineering, and Life Sciences

7. SIC CODES

- 3663 Radio and Television Broadcasting and Communications Equipment
- 3812 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments
- 3825 Instruments for Measuring and Testing of Electricity and Electrical Signals
- 4899 Communications Services, Not Elsewhere Classified
- 7371 Computer Programming Services
- 8711 Engineering Services

8. SERVICES

- Custom electronic design
- Custom software design
- Custom mechanical integration and design
- Custom product/project design

9. EXPERIENCE

- Various US Government Agency customized products and projects
- Many Transportation and Logistics extended wireless implementations
- Antenna design, amplification design, GeoLocation solution design, extended wireless design services

10. TECHNOLOGIES

- FlexVMT – Vector Modulated Technology
- Wireless (IEEE 802.11, WiMax, Public Safety, GPS, Cellular, custom...)
- IEEE 802.1X Security (Radius/WPA2 Enterprise w/AES, WPA Enterprise w/3DES, wWPA/WPA2 PSK, Multiple SSIDs and VLANs...)
- Amplifiers (Various bands and styles)
- Antennas (Phased Array, dipole, panel, planar...)
- GeoLocation (Geo™-I through Geo-V)
- Software Development (C, C++, Python, MathCAD...)
- Hardware Design (CAD, VHDL, Xilinx...)
- Manufacturing (Surface mount, insertion...)

11. PRODUCTS

- Phocus Array Systems
- GeoLocation
- Amplifiers
- Antennas
- Wireless test equipment
- Custom wireless communications, identification, direction finding, location...

12. KEY PRODUCT CAPABILITIES AND ADVANTAGES

- Extended wireless reach* (8 element – 15 miles)
- Dynamic beam steering and shaping (DBSS)* (8 element <100μSecs)
- Signal interference mitigation*
- GeoLocation*
- Visual stealth for security system backhaul* (enclosed antennas)
- Privacy* (beam isolation)
- Security* (IEEE 802.1X plus beam control and isolation)
- Size and weight* (under 9 lbs and only .54 cubic feet)
- Low power requirements* (9-12 Watt average)
- Programmable control or GUI (XMLRPC)
- Pattern selection flexibility (unlimited)
- Technology scalability (in frequency, size, weight, number of elements and radios)
- Customizable

“*” = Best in class

13. TRADEMARKS

Phocus Array, FlexVMT, G.R.I.P.S., Geo and Vector Modular Technology are trademarks of Fidelity Comtech Inc. All other trademarks are the property of their respective owners. VMT is an acronym for the technology covered by U.S. patent #6,894,657.