

**FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR SPECIAL TEMPORARY AUTHORITY**

**This request for Special Temporary Authority (STA) is for a Existing STA**

**1. Name of Applicant (Company):**

General Dynamics SATCOM Technologies, Inc.

**2. Address:**

**Attention:** Mr. Timothy M. Shroyer  
**Street Address:** 1900 Prodelin Drive  
**P.O. Box:**  
**City:** Newton **State:** NC **Zip Code:** 28658  
**Country:**  
**E-Mail Address:** Tim.Shroyer@TriPointGlobal.com

**3. Give the following information of person who can best handle inquiries pertaining to this application:**

**Last Name:** Shroyer  
**First Name:** Timothy  
**Title:** Vice President  
**Phone Number:** 408-232-1615

**4. Please explain in the area below why an STA is necessary:**

General Dynamics has created prototype units of a new satcom system ready to be installed for testing, demonstration and training to the U.S. Signal Corps at Fort Gordon, GA by the end of this week. Two of these prototype systems have already been provided to the U.S. military for use in Iraq, and orders for 25 more have already been accepted. General Dynamics anticipates that the STA will be required for a period of time less than 6 months, until an application for experimental authorization has been filed and granted.

**5. Please explain the purpose of operation:**

Testing, demonstration and training of a Ku-band VSAT-type satcom network utilizing a hub terminal and sub-meter mobile terminals to provide services predominantly for military applications. Testing, demonstration and training of a Ku-band VSAT-type satcom network utilizing a hub terminal and sub-meter mobile terminals to provide private satellite communications services predominantly for military applications. The system is intended to demonstrate wideband service using FSS satellite transponders. Please see the attached narrative for further information.

**6.**

**Call Sign:** WC9XAP  
**Class of Station:** FX MO  
**Nature of Service:** Experimental

**7. Location of proposed operation:**

**Operation Start Date:** 11/19/2004  
**Operation End Date:** 05/18/2005

**8. List below transmitting equipment to be installed (if experimental, so state) if additional rows are required, please submit equipment list as an exhibit:**

Manufacturer	Model Number	No. Of Units	Experimental
General Dynamics	S825-1100	2	Yes
Prodelin	1244-930	1	No

**9. Certification:**

Neither the applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. The applicant hereby waives any claim to the use of any particular frequency or electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.) The applicant acknowledges that all statements made in this application and attached exhibits are considered material representations, and that all the exhibits part hereof and are incorporated herein as if set out in full in this application; undersigned certifies that all statements in this application are true, complete and correct to the best of his/her knowledge and belief and are made in good faith. Applicant certifies that construction of the station would NOT be an action which is likely to have a significant environmental effect. See the Commission's Rules, 47 CFR1.1301-1.1319.

**Signature of Applicant (Authorized person filing form):** T. Shroyer

**Title of Applicant (if any):** Vice President

**Date:** Nov 7 2004 12:00AM

**Station Location**

	<b>City</b>	<b>State</b>	<b>Latitude</b>			<b>Longitude</b>					
(1)	Richardson	TX	North	32	58	27	West	96	42	15	Mobile: VertexRSI Richardson, TX facility

**Datum: NAD 83**

**Is a directional antenna (other than radar) used? Yes**

**Exhibit submitted: Yes**

**(a) Width of beam in degrees at the half-power point:**

**(b) Orientation in horizontal plane:**

**(c) Orientation in vertical plane:**

**Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? No**

**(a) Overall height above ground to tip of antenna in meters:**

**(b) Elevation of ground at antenna site above mean sea level in meters:**

**(c) Distance to nearest aircraft landing area in kilometers:**

**(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft:**

Action	Frequency	Station Class	Output Power/ERP	Mean/Peak	Frequency Tolerance (+/-)	Emmission Designator	Modulating Signal
New	14.36000000-14.50000000 GHz	MO	2.170000 W / 180.700000 kW	P	0.00001000 %	2M60G1D	2.048 MBPS

Action	Frequency	Station Class	Output Power/ERP	Mean/Peak	Frequency Tolerance (+/-)	Emmission Designator	Modulating Signal
Modified	14.36000000-14.50000000 GHz	FX	15.100000 W / 80.100000 kW	P	0.00001000 %	2M60G1D	2.048 MBPS

(2)	Taunton	MA	North	41	57	5	West	71	7	48	Mobile: General Dynamics Taunton, MA facility
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**Datum: NAD 83**

**Is a directional antenna (other than radar) used? Yes**

**Exhibit submitted: Yes**

**(a) Width of beam in degrees at the half-power point: 2.30**

**(b) Orientation in horizontal plane:**

**(c) Orientation in vertical plane:**

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(3)	Fort Gordon	GA	North	33	24	36	West	82	8	24	Mobile: Fort Gordon, GA
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New	14.36000000-14.50000000 GHz	MO	2.170000 W / 180.700000 kW	P	0.00001000 %	2M60G1D	2.048 MBPS

(4)	Duluth	GA	North	33	55	10	West	84	16	12	Mobile: VertexRSI Duluth, GA facility
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New	14.36000000-14.50000000 GHz	MO	2.170000 W / 180.700000 kW	P	0.00001000 %	2M60G1D	2.048 MBPS

(5)	Fredericksburg	VA	North	38	19	50	West	77	28	56	Mobile: Coherent Systems Fredericksburg, VA facility
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