

**FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPECIAL TEMPORARY AUTHORITY****Applicant Name****Name of Applicant:** L-3 Communications, Communication Systems - West**Address**

Attention: Robert A. Wright
Street Address: 640 North 2200 West, M/S F1H03
P.O. Box: 16850
City: Salt Lake City
State: UT
Zip Code: 84116
Country:
E-Mail Address: Bob.Wright@L-3com.com

Best Contact

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

Last Name: Wright
First Name: Robert
Title: Consulting Engineer
Phone Number: (801)594-2149

Explanation

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

STA will provide authority to test and demonstrate fixed point-to-point link in government-exclusive band. The test and marketing demonstration are associated with company-funded activity and not part of a contracted effort.

Purpose of Operation

Please explain the purpose of operation: Test and demonstrate commercially-available data link equipment for application to government/military communication system needs. This could potentially provide great cost-savings when compared to custom-designed systems.

Information

Callsign: WF9XIJ
Class of Station: FX
Nature of Service: Experimental

Location of proposed operation

Operation Start Date: 01/16/2012
Operation End Date: 02/16/2012

Manufacturer

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
Cambium Networks	PTP45600	2	No

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): Robert A. Wright

Title of Applicant (if any): Consulting Engineer

Date: 2011-12-22 00:00:00.0

Station Location

City	State	Latitude	Longitude	Mobile	Radius of Operation
Tucson	Arizona	North 32 10 11	West 110 54 11		

Datum: NAD 83

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

Exhibit submitted: No

(a) Width of beam in degrees at the half-power point: 11.00

(b) Orientation in horizontal plane: 317.40

(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 (+/-)	Emission Designator	Modulating Signal
New 4400.00000000-4600.00000000 MHz	FX	0.500000 W 70.800000 W	M	0.00010000 %	19M1D1D	QAM
Action Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New 4400.00000000-4600.00000000 MHz	FX	0.500000 W 70.800000 W	M	0.00010000 %	28M7D1D	QAM

City	State	Latitude	Longitude	Mobile	Radius of Operation
Tucson	Arizona	North 32 10 11	West 110 54 11		

Datum: NAD 83

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

Exhibit submitted: No

(a) Width of beam in degrees at the half-power point: 11.00

(b) Orientation in horizontal plane: 172.20

(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 (+/-)	Emission Designator	Modulating Signal
New 4400.00000000-	FX	0.500000 W	M	0.00010000 %	19M1D1D	QAM

Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	4400.00000000- 4600.00000000 MHz	FX	0.500000 W 70.800000 W	M	0.00010000 %	28M7D1D	QAM

City	State	Latitude	Longitude	Mobile	Radius of Operation
Marana	Arizona	North 32 25 26	West 111 10 44		

Datum: NAD 83

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

Exhibit submitted: No

(a) Width of beam in degrees at the half-power point: 11.00

(b) Orientation in horizontal plane: 137.40

(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 (+/-)	Emission Designator	Modulating Signal
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Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	4400.00000000- 4600.00000000 MHz	FX	0.500000 W 70.800000 W	M	0.00010000 %	28M7D1D	QAM

City	State	Latitude	Longitude	Mobile	Radius of Operation
Tucson	Arizona	North 32 4 56	West 110 53 20		

Datum: NAD 83

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

Exhibit submitted: No

(a) Width of beam in degrees at the half-power point: 11.00

(b) Orientation in horizontal plane: 352.20

(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 (+/-)	Emission Designator	Modulating Signal
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Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal

New	4400.00000000- 4600.00000000 MHz	FX	0.500000 W 70.800000 W	M	0.00010000 %	28M7D1D	QAM
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