

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WF2XKH

(Call Sign)

XD FX MO

(Class of Station)

0013-EX-ML-2011

(File Number)

NAME Cisco Systems Inc

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(i) of the Commission's Rules

Station Locations

- (1) MOBILE: Cisco Sytems Campus Building 25 Milpitas California, Building 14, within 1 km, centered around NL 37-24-31; WL 121-57-03
- (2) MOBILE: Cisco facility on Richfield Ohio, within 1 km, centered around NL 41-08-04; WL 81-38-39
- (3) Richardson (COLLIN), TX - NL 33-00-06; WL 97-36-08
- (4) TEWKSBURY (MIDDLESEX), MA - NL 42-38-25; WL 71-14-27; MOBILE: with in Cisco campus, within 1 km
- (5) Richfield (SUMMIT), OH - NL 41-08-04; WL 81-38-39; MOBILE: Cisco campus, within 1 km
- (6) RTP (DURHAM), NC - NL 35-54-50; WL 78-51-58; MOBILE: , within 1 km
- (7) San Jose (SANTA CLARA), CA - NL 37-24-32; WL 121-55-44
- (8) TEWKSBURY (MIDDLESEX), MA - NL 42-38-25; WL 71-14-27; MOBILE: Cisco Sytems Campus Building, within 1 km
- (9) Lawrenceville (GWINNETT), GA - NL 33-57-45; WL 84-04-10; MOBILE: Cisco Sytems building, within 1 km

Frequency Information

MOBILE: Cisco Sytems Campus Building 25 Milpitas California, Building 14, within 1 km, centered around NL 37-24-31; WL 121-57-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-704 MHz	MO	5M00X7X	2 W (ERP)	

This authorization effective February 18, 2011 and
will expire 3:00 A.M. EST May 01, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Cisco Sytems Campus Building 25 Milpitas California, Building 14, within 1 km, centered around NL 37-24-31; WL 121-57-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
728-734 MHz	MO	5M00X7X	2 W (ERP)	
746-757 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
776-787 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
776-787 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
824-849 MHz	MO	200KG7W	2 W (Output Power)	
869-890 MHz	MO	200KG7W	2 W (Output Power)	
890-960 MHz	MO	200KG7W	2 W (Output Power)	
1710-1755 MHz	MO	200KG7W	2 W (Output Power)	
1755-1850 MHz	MO	200KG7F 200KG7W	2 W (Output Power)	
1850-1990 MHz	MO	200KG7W	2 W (Output Power)	

Frequency Information

MOBILE: Cisco Sytems Campus Building 25 Milpitas California, Building 14, within 1 km, centered around NL 37-24-31; WL 121-57-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1990 MHz	MO	200KG7F	2 W (Output Power)	
2110-2170 MHz	MO	200KG7F 200KG7W	2 W (Output Power)	

MOBILE: Cisco facility on Richfield Ohio, within 1 km, centered around NL 41-08-04; WL 81-38-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	200KG7W	2 W (Output Power)	
869-890 MHz	MO	200KG7W	2 W (Output Power)	
890-960 MHz	MO	200KG7W	2 W (Output Power)	
1710-1755 MHz	MO	200KG7W	2 W (Output Power)	
1755-1850 MHz	MO	200KG7W 200KG7F	2 W (Output Power)	
1850-1990 MHz	MO	200KG7F 200KG7W	2 W (Output Power)	

Frequency Information

MOBILE: Cisco facility on Richfield Ohio, within 1 km, centered around NL 41-08-04; WL 81-38-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2170 MHz	MO	200KG7W 200KG7F	2 W (Output Power)	

Richardson (COLLIN), TX - NL 33-00-06; WL 97-36-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-704 MHz	FX	5M00X7X	1 W (ERP)	
728-734 MHz	FX	5M00X7X	1 W (ERP)	
746-757 MHz	FX	10M0X7X 5M00X7X	1 W (ERP)	
776-787 MHz	FX	5M00X7X 10M0X7X	1 W (ERP)	
824-849 MHz	FX	200KG7W 200KG7W	2 W (Output Power)	
869-890 MHz	FX	200KG7W 200KG7W 200KG7W	2 W (Output Power)	

Frequency Information

Richardson (COLLIN), TX - NL 33-00-06; WL 97-36-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
890-960 MHz	FX	200KG7W	2 W (Output Power)	
1710-1755 MHz	FX	200KG7W	2 W (Output Power)	
1755-1850 MHz	FX	200KH7W	2 W (Output Power)	
1850-1990 MHz	FX	200KG7N	2 W (Output Power)	
2110-2170 MHz	FX	200KG7W 220KG7W 220KG7W	2 W (Output Power)	

TEWKSBURY (MIDDLESEX), MA - NL 42-38-25; WL 71-14-27; MOBILE: with in Cisco campus, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz		5M00G7W	1 W (ERP)	
1755-1850 MHz	MO	5M00G7W	1 W (ERP)	
1850-1990 MHz	MO	5M00G7W	40 W (ERP)	

Frequency Information

TEWKSBURY (MIDDLESEX), MA - NL 42-38-25; WL 71-14-27; MOBILE: with in Cisco campus, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2170 MHz	MO	5M00G7W	1 W (ERP)	

Richfield (SUMMIT), OH - NL 41-08-04; WL 81-38-39; MOBILE: Cisco campus, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-704 MHz		5M00X7X	2 W (ERP)	
728-734 MHz	MO	5M00X7X	2 W (ERP)	
746-757 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
776-787 MHz	MO	10M0X7X 5M00X7X	2 W (ERP)	

RTP (DURHAM), NC - NL 35-54-50; WL 78-51-58; MOBILE: , within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-704 MHz	MO	5M00X7X 5M00X7X	2 W (ERP)	

Frequency Information

RTP (DURHAM), NC - NL 35-54-50; WL 78-51-58; MOBILE: , within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
728-734 MHz	MO	5M00X7X	2 W (ERP)	
776-787 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	

San Jose (SANTA CLARA), CA - NL 37-24-32; WL 121-55-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-704 MHz	FX	5M00X7X	2 W (ERP)	
728-734 MHz	FX	5M00X7X	2 W (ERP)	
746-757 MHz	FX	10M0X7X 5M00X7X	2 W (ERP)	
776-787 MHz	FX	10M0X7X 5M00X7X	2 W (ERP)	
824-849 MHz	FX	200KG3W 200KG7F	2 W (ERP)	
869-890 MHz	FX	200KG7W	2 W (ERP)	

Frequency Information

San Jose (SANTA CLARA), CA - NL 37-24-32; WL 121-55-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
869-890 MHz	FX	200KG7F	2 W (ERP)	
890-960 MHz	FX	200KG7W	2 W (ERP)	
1755-1850 MHz	FX	200KG7W	2 W (ERP)	
1850-1990 MHz	FX	200KG7W 200KG7W	2 W (ERP)	
2110-2170 MHz	FX	200KG7W 200KG7W	2 W (ERP)	

TEWKSBURY (MIDDLESEX), MA - NL 42-38-25; WL 71-14-27; MOBILE: Cisco Sytems Campus Building, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-704 MHz	MO	5M00X7X	2 W (ERP)	
728-734 MHz	MO	5M00X7X	2 W (ERP)	
746-757 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	

Frequency Information

TEWKSBURY (MIDDLESEX), MA - NL 42-38-25; WL 71-14-27; MOBILE: Cisco Sytems Campus Building, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
776-787 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
776-787 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
824-849 MHz	MO	200KG7W	2 W (Output Power)	
869-890 MHz	MO	200KG7W	2 W (Output Power)	
890-960 MHz	MO	200KG7W	2 W (Output Power)	
1710-1755 MHz	MO	200KG7W	2 W (Output Power)	
1755-1850 MHz	MO	200KG7F 200KG7W	2 W (Output Power)	
1850-1990 MHz	MO	200KG7W 200KG7F	2 W (Output Power)	
2110-2170 MHz	MO	200KG7F 200KG7W	2 W (Output Power)	

Frequency Information

Lawrenceville (GWINNETT), GA - NL 33-57-45; WL 84-04-10; MOBILE: Cisco Sytems building, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-704 MHz	MO	5M00X7X	2 W (ERP)	
728-734 MHz	MO	5M00X7X	2 W (ERP)	
746-757 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
776-787 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
776-787 MHz	MO	5M00X7X 10M0X7X	2 W (ERP)	
824-849 MHz	MO	200KG7W	2 W (Output Power)	
869-890 MHz	MO	200KG7W	2 W (Output Power)	
890-960 MHz	MO	200KG7W	2 W (Output Power)	
1710-1755 MHz	MO	200KG7W	2 W (Output Power)	
1755-1850 MHz	MO	200KG7F	2 W (Output Power)	

Frequency Information

Lawrenceville (GWINNETT), GA - NL 33-57-45; WL 84-04-10; MOBILE: Cisco Sytems building, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1850 MHz	MO	200KG7W	2 W (Output Power)	
1850-1990 MHz	MO	200KG7W 200KG7F	2 W (Output Power)	
2110-2170 MHz	MO	200KG7F 200KG7W	2 W (Output Power)	

Special Conditions:

- (1) Operation in the 1910-1930 MHz band requires coordination with UTAM, Inc. pursuant to Section 15.307 of the Commission's Rules.
- (2) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (5) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (6) Operations must be prior coordinated with affected Fixed Microwave Service (Part 101) licensees in accordance with 47 CFR, Part 101.103(d).