

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

EXPERIMENTAL

(Nature of Service)

WF2XTB

(Call Sign)

XD MO

(Class of Station)

0183-EX-CR-2017

(File Number)

NAME Oceus Networks

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(d f) of the Commission's Rules

Station Locations

- (1) MOBILE: Ft Huachuca, AZ, within 10 km, centered around NL 31-33-54; WL 110-21-21
- (2) MOBILE: Yuma Proving Grounds, within 10 km, centered around NL 33-00-56; WL 114-14-37
- (3) MOBILE: Camp Pendleton, CA, within 10 km, centered around NL 33-21-52; WL 117-24-36
- (4) MOBILE: Camp Roberts, CA, within 10 km, centered around NL 35-47-19; WL 120-46-55
- (5) MOBILE: China Lake NWS, CA, within 10 km, centered around NL 35-52-36; WL 117-38-27
- (6) MOBILE: NAS Point Magu, CA, within 10 km, centered around NL 34-06-42; WL 119-06-50
- (7) MOBILE: Ft. Gordon, within 10 km, centered around NL 33-25-17; WL 82-09-56
- (8) MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-16; WL 112-51-25
- (9) MOBILE: Pax River NAS, MD, within 10 km, centered around NL 38-16-59; WL 76-24-57
- (10) MOBILE: Fort Bragg, NC, within 10 km, centered around NL 35-08-59; WL 78-59-29
- (11) MOBILE: Fort Dix/Lakehurst NAES, NJ, within 10 km, centered around NL 40-00-41; WL 74-30-14
- (12) MOBILE: Fort Monmouth, NJ, within 10 km, centered around NL 40-18-54; WL 74-02-42
- (13) MOBILE: Fort Bliss, TX, within 10 km, centered around NL 32-07-45; WL 106-04-03
- (14) MOBILE: Fort A P Hill, VA, within 10 km, centered around NL 38-06-16; WL 77-15-47
- (15) MOBILE: Fort Story/Fort Eustis, VA, within 10 km, centered around NL 36-55-25; WL 76-01-03
- (16) MOBILE: Langley AFB, VA, within 10 km, centered around NL 37-05-12; WL 76-21-32

This authorization effective April 01, 2017 and
will expire 3:00 A.M. EST April 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(17) MOBILE: JSIC, 1562 Mitscher Ave. Norfolk VA, JFCOM, within 10 km, centered around
NL 36-55-22; WL 76-18-14

Frequency Information

MOBILE: Ft Huachuca, AZ, within 10 km, centered around NL 31-33-54; WL 110-21-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

Frequency Information

MOBILE: Yuma Proving Grounds, within 10 km, centered around NL 33-00-56; WL 114-14-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Camp Pendleton, CA, within 10 km, centered around NL 33-21-52; WL 117-24-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	

Frequency Information

MOBILE: Camp Pendleton, CA, within 10 km, centered around NL 33-21-52; WL 117-24-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Camp Roberts, CA, within 10 km, centered around NL 35-47-19; WL 120-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: Camp Roberts, CA, within 10 km, centered around NL 35-47-19; WL 120-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: China Lake NWS, CA, within 10 km, centered around NL 35-52-36; WL 117-38-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	

Frequency Information

MOBILE: China Lake NWS, CA, within 10 km, centered around NL 35-52-36; WL 117-38-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: NAS Point Magu, CA, within 10 km, centered around NL 34-06-42; WL 119-06-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	

Frequency Information

MOBILE: NAS Point Magu, CA, within 10 km, centered around NL 34-06-42; WL 119-06-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Ft. Gordon, within 10 km, centered around NL 33-25-17; WL 82-09-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	

Frequency Information

MOBILE: Ft. Gordon, within 10 km, centered around NL 33-25-17; WL 82-09-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-16; WL 112-51-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-16; WL 112-51-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Pax River NAS, MD, within 10 km, centered around NL 38-16-59; WL 76-24-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: Pax River NAS, MD, within 10 km, centered around NL 38-16-59; WL 76-24-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Fort Bragg, NC, within 10 km, centered around NL 35-08-59; WL 78-59-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

Frequency Information

MOBILE: Fort Dix/Lakehurst NAES, NJ, within 10 km, centered around NL 40-00-41; WL 74-30-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Fort Monmouth, NJ, within 10 km, centered around NL 40-18-54; WL 74-02-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	

Frequency Information

MOBILE: Fort Monmouth, NJ, within 10 km, centered around NL 40-18-54; WL 74-02-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Fort Bliss, TX, within 10 km, centered around NL 32-07-45; WL 106-04-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: Fort Bliss, TX, within 10 km, centered around NL 32-07-45; WL 106-04-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Fort A P Hill, VA, within 10 km, centered around NL 38-06-16; WL 77-15-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	

Frequency Information

MOBILE: Fort A P Hill, VA, within 10 km, centered around NL 38-06-16; WL 77-15-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Fort Story/Fort Eustis, VA, within 10 km, centered around NL 36-55-25; WL 76-01-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	

Frequency Information

MOBILE: Fort Story/Fort Eustis, VA, within 10 km, centered around NL 36-55-25; WL 76-01-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: Langley AFB, VA, within 10 km, centered around NL 37-05-12; WL 76-21-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	

Frequency Information

MOBILE: Langley AFB, VA, within 10 km, centered around NL 37-05-12; WL 76-21-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

MOBILE: JSIC, 1562 Mitscher Ave. Norfolk VA, JFCOM, within 10 km, centered around NL 36-55-22; WL 76-18-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W	1 W (ERP)	
728-746 MHz	MO	10M0W7W	4000 W (ERP)	
1710-1755 MHz	MO	20M0W7W	1 W (ERP)	
1850-1910 MHz	MO	20M0W7W	1 W (ERP)	
1920-1980 MHz	MO	5M00G7W	1 W (ERP)	
1930-1990 MHz	MO	20M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: JSIC, 1562 Mitscher Ave. Norfolk VA, JFCOM, within 10 km, centered around NL 36-55-22; WL 76-18-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2155 MHz	MO	20M0W7W	4000 W (ERP)	
2110-2170 MHz	MO	5M00G7W	4000 W (ERP)	

Special Conditions:

- (1) 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.
- (2) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 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.
- (3) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (4) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (5) Licensee shall keep a log of their operations that includes all the times, dates and locations of their experimental operations.