

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WJ9XMW

(Call Sign)

XT FX MO

(Class of Station)

0873-EX-ST-2016

(File Number)

NAME Rajant Corporation

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Rajant Corporation seeks to test its products at the 3650-3700 MHz band to provide multi-media broadband communications for the game officials.

Station Locations

- (1) Los Angeles (LOS ANGELES), CA - NL 34-00-51; WL 118-17-16; MOBILE: LA Memorial Coliseum, within 0.2 km
- (2) East Rutherford, NJ - NL 40-48-49; WL 74-04-28; MOBILE: MetLife Stadium, within 0.2 km
- (3) Arlington (TARRANT), TX - NL 32-44-52; WL 79-05-34; MOBILE: AT&T Stadium, within 0.2 km
- (4) Landover, MD - NL 38-54-28; WL 76-51-52; MOBILE: FedEx Field, within 0.2 km
- (5) Miami Gardens (DADE), FL - NL 25-57-29; WL 80-14-20; MOBILE: Sun Life Stadium, within 0.2 km
- (6) Green Bay (BROWN), WI - NL 44-30-04; WL 88-03-43; MOBILE: Lambeau Field, within 0.2 km
- (7) Kansas City (JACKSON), MO - NL 39-02-56; WL 94-29-02; MOBILE: Arrowhead Stadium, within 0.2 km
- (8) Denver (DENVER), CO - NL 39-44-38; WL 105-01-12; MOBILE: Sports Authority Field at Mile High, within 0.2 km
- (9) Orchard Park (ERIE), NY - NL 42-46-26; WL 78-47-13; MOBILE: Ralph Wilson Stadium, within 0.2 km
- (10) New Orleans (ORLEANS), LA - NL 29-57-03; WL 90-04-52; MOBILE: Mercedes-Benz Superdome, within 0.2 km
- (11) Houston (HARRIS), TX - NL 29-41-05; WL 95-24-39; MOBILE: NRG Stadium, within 0.2 km

This authorization effective June 27, 2016 and
will expire 3:00 A.M. EST December 28, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (12) Atlanta (FULTON), GA - NL 33-45-27; WL 84-24-03; MOBILE: Georgia Dome, within 0.2 km
- (13) Foxborough (NORFOLK), MA - NL 42-05-27; WL 71-15-52; MOBILE: Gillette Stadium, within 0.2 km
- (14) Cleveland (CUYAHOGA), OH - NL 41-30-22; WL 81-41-58; MOBILE: First Energy Stadium, within 0.2 km
- (15) Jacksonville (DUVAL), FL - NL 30-19-26; WL 81-38-15; MOBILE: EverBank Field, within 0.2 km
- (16) Seattle (KING), WA - NL 47-35-43; WL 122-19-54; MOBILE: CenturyLink Field, within 0.2 km
- (17) St. Louis, MO - NL 38-37-58; WL 90-11-19; MOBILE: Edward Jones Dome, within 0.2 km
- (18) Cincinnati (HAMILTON), OH - NL 39-05-44; WL 84-30-58; MOBILE: Paul Brown Stadium, within 0.2 km
- (19) Detroit (WAYNE), MI - NL 42-20-24; WL 83-02-44; MOBILE: Ford Field, within 0.2 km
- (20) Minneapolis (HENNEPIN), MN - NL 44-58-34; WL 93-13-30; MOBILE: TCF Bank Stadium, within 0.2 km
- (21) Glendale (MARICOPA), AZ - NL 33-31-39; WL 112-15-45; MOBILE: University of Phoenix Stadium, within 0.2 km
- (22) Indianapolis (MARION), IN - NL 39-45-36; WL 86-09-50; MOBILE: Lucas Oil Stadium, within 0.2 km
- (23) Chicago (COOK), IL - NL 41-51-45; WL 87-37-00; MOBILE: Soldier Field, within 0.2 km
- (24) Charlotte (MECKLENBURG), NC - NL 35-13-33; WL 80-51-10; MOBILE: Bank of America Stadium, within 0.2 km
- (25) Baltimore, MD - NL 39-16-40; WL 76-37-22; MOBILE: M&T Bank Stadium, within 0.2 km
- (26) San Diego (SAN DIEGO), CA - NL 32-46-59; WL 117-07-10; MOBILE: Qualcomm Stadium, within 0.2 km
- (27) Santa Clara (SANTA CLARA), CA - NL 37-24-11; WL 121-58-12; MOBILE: Levi's Stadium, within 0.2 km
- (28) Nashville (DAVIDSON), TN - NL 36-09-59; WL 86-46-17; MOBILE: Nissan Stadium, within 0.2 km
- (29) Philadelphia (PHILADELPHIA), PA - NL 39-54-03; WL 75-10-03; MOBILE: Lincoln Financial Field, within 0.2 km
- (30) Tampa (HILLSBOROUGH), FL - NL 27-58-33; WL 82-30-12; MOBILE: Raymond James Stadium, within 0.2 km
- (31) Pittsburgh (ALLEGHENY), PA - NL 40-26-48; WL 80-00-57; MOBILE: Heinz Field, within 0.2 km
- (32) Oakland (ALAMEDA), CA - NL 37-45-06; WL 122-12-02; MOBILE: O.co.Coliseum, within 0.2 km
- (33) Honolulu (HONOLULU), HI - NL 21-22-22; WL 157-55-48; MOBILE: Aloha Stadium, within 0.2 km

Frequency Information

Los Angeles (LOS ANGELES), CA - NL 34-00-51; WL 118-17-16; MOBILE: LA Memorial Coliseum, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

East Rutherford, NJ - NL 40-48-49; WL 74-04-28; MOBILE: MetLife Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Arlington (TARRANT), TX - NL 32-44-52; WL 79-05-34; MOBILE: AT&T Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Landover, MD - NL 38-54-28; WL 76-51-52; MOBILE: FedEx Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Miami Gardens (DADE), FL - NL 25-57-29; WL 80-14-20; MOBILE: Sun Life Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Green Bay (BROWN), WI - NL 44-30-04; WL 88-03-43; MOBILE: Lambeau Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Kansas City (JACKSON), MO - NL 39-02-56; WL 94-29-02; MOBILE: Arrowhead Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Denver (DENVER), CO - NL 39-44-38; WL 105-01-12; MOBILE: Sports Authority Field at Mile High, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Orchard Park (ERIE), NY - NL 42-46-26; WL 78-47-13; MOBILE: Ralph Wilson Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

New Orleans (ORLEANS), LA - NL 29-57-03; WL 90-04-52; MOBILE: Mercedes-Benz Superdome, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Houston (HARRIS), TX - NL 29-41-05; WL 95-24-39; MOBILE: NRG Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Atlanta (FULTON), GA - NL 33-45-27; WL 84-24-03; MOBILE: Georgia Dome, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Foxborough (NORFOLK), MA - NL 42-05-27; WL 71-15-52; MOBILE: Gillette Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Cleveland (CUYAHOGA), OH - NL 41-30-22; WL 81-41-58; MOBILE: First Energy Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Jacksonville (DUVAL), FL - NL 30-19-26; WL 81-38-15; MOBILE: EverBank Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Seattle (KING), WA - NL 47-35-43; WL 122-19-54; MOBILE: CenturyLink Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

St. Louis, MO - NL 38-37-58; WL 90-11-19; MOBILE: Edward Jones Dome, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Cincinnati (HAMILTON), OH - NL 39-05-44; WL 84-30-58; MOBILE: Paul Brown Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Detroit (WAYNE), MI - NL 42-20-24; WL 83-02-44; MOBILE: Ford Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Minneapolis (HENNEPIN), MN - NL 44-58-34; WL 93-13-30; MOBILE: TCF Bank Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Glendale (MARICOPA), AZ - NL 33-31-39; WL 112-15-45; MOBILE: University of Phoenix Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Indianapolis (MARION), IN - NL 39-45-36; WL 86-09-50; MOBILE: Lucas Oil Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Chicago (COOK), IL - NL 41-51-45; WL 87-37-00; MOBILE: Soldier Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Charlotte (MECKLENBURG), NC - NL 35-13-33; WL 80-51-10; MOBILE: Bank of America Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Baltimore, MD - NL 39-16-40; WL 76-37-22; MOBILE: M&T Bank Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

San Diego (SAN DIEGO), CA - NL 32-46-59; WL 117-07-10; MOBILE: Qualcomm Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Santa Clara (SANTA CLARA), CA - NL 37-24-11; WL 121-58-12; MOBILE: Levi's Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Nashville (DAVIDSON), TN - NL 36-09-59; WL 86-46-17; MOBILE: Nissan Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Philadelphia (PHILADELPHIA), PA - NL 39-54-03; WL 75-10-03; MOBILE: Lincoln Financial Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Tampa (HILLSBOROUGH), FL - NL 27-58-33; WL 82-30-12; MOBILE: Raymond James Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Frequency Information

Pittsburgh (ALLEGHENY), PA - NL 40-26-48; WL 80-00-57; MOBILE: Heinz Field, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Oakland (ALAMEDA), CA - NL 37-45-06; WL 122-12-02; MOBILE: O.co.Coliseum, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Honolulu (HONOLULU), HI - NL 21-22-22; WL 157-55-48; MOBILE: Aloha Stadium, within 0.2 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %
3650-3700 MHz	MO	40M0D1D 40M0G1D	800 mW (ERP)	0.0001 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Consult MyIBFS database to identify all existing registered earth stations in the 3650-3700 MHz band within a 25 mile radius for each proposed experimental area of operation.
- (4) Maintain separation from the grandfathered earth stations as defined in Part 90 subpart Z, or coordinate an agreement with the grandfathered earth station licensees.
- (5) Consult the ULS database to ensure that the proposed operations will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed areas.
- (6) All of the experimental devices will be under control of Rajant Corporation and they will be retrieved by Rajant Corporation from the participants upon completion of the experiment.
- (7) Rajant Corporation will be responsible for ensuring that the devices are used in authorized locations and in a manner authorized.