

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

EXPERIMENTAL

(Nature of Service)

WN9XVU

(Call Sign)

XT FX MO

(Class of Station)

0029-EX-ST-2019

(File Number)

NAME AT&T Services, Inc.

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:

Applicant will conduct testing to evaluate network and product performance prior to production under expected use conditions in an actual performance environment.

Station Locations

- (1) Salineville (COLUMBIANA), OH - NL 40-37-59; WL 80-48-57
- (2) MENTOR (LAKE), OH - NL 41-38-20; WL 81-21-14
- (3) NEW RIEGEL (SENECA), OH - NL 41-05-08; WL 83-20-55
- (4) AKRON (SUMMIT), OH - NL 41-05-08; WL 81-30-22
- (5) ROGERS (COLUMBIANA), OH - NL 40-46-49; WL 80-38-34
- (6) NORTH JACKSON (MAHONING), OH - NL 41-05-52; WL 80-54-43
- (7) LISBON (COLUMBIANA), OH - NL 40-45-59; WL 80-49-04
- (8) STRUTHERS (MAHONING), OH - NL 41-03-21; WL 80-35-14
- (9) CHESHIRE (GALLIA), OH - NL 38-56-27; WL 82-06-44
- (10) SALEM (MAHONING), OH - NL 40-54-10; WL 80-46-51
- (11) MEMPHIS (SHELBY), TN - NL 35-08-46; WL 90-03-03
- (12) MEDINA (GIBSON), TN - NL 35-47-39; WL 88-47-10
- (13) MEMPHIS (SHELBY), TN - NL 35-07-40; WL 89-48-11
- (14) RIPLEY (LAUDERDALE), TN - NL 35-42-29; WL 89-33-29
- (15) CUMBERLAND CITY (STEWART), TN - NL 36-22-43; WL 87-38-16
- (16) CALHOUN (MCMINN), TN - NL 35-19-07; WL 84-45-32
- (17) KINGSTON (ROANE), TN - NL 35-52-43; WL 84-29-50
- (18) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-37-59; WL 80-48-57

This authorization effective April 15, 2019 and
will expire 3:00 A.M. EST October 16, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (19) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-38-20; WL 81-21-14
- (20) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-05-08; WL 83-20-55
- (21) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-05-08; WL 81-30-22
- (22) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-46-49; WL 80-38-34
- (23) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-05-52; WL 80-54-43
- (24) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-45-59; WL 80-49-04
- (25) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-03-21; WL 80-35-14
- (26) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 38-56-27; WL 82-06-44
- (27) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-54-10; WL 80-46-51
- (28) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-08-46; WL 90-03-03
- (29) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-47-39; WL 88-47-10
- (30) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-07-40; WL 89-48-11
- (31) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-42-29; WL 89-33-29
- (32) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 36-22-43; WL 87-38-16
- (33) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-19-07; WL 84-45-32
- (34) MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-52-43; WL 84-29-50

Frequency Information

Salineville (COLUMBIANA), OH - NL 40-37-59; WL 80-48-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

Frequency Information

MENTOR (LAKE), OH - NL 41-38-20; WL 81-21-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0M7W	121.618 W (ERP)	0.001 %

NEW RIEGEL (SENECA), OH - NL 41-05-08; WL 83-20-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

AKRON (SUMMIT), OH - NL 41-05-08; WL 81-30-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0M7W	121.618 W (ERP)	0.001 %

ROGERS (COLUMBIANA), OH - NL 40-46-49; WL 80-38-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

Frequency Information

NORTH JACKSON (MAHONING), OH - NL 41-05-52; WL 80-54-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

LISBON (COLUMBIANA), OH - NL 40-45-59; WL 80-49-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

STRUTHERS (MAHONING), OH - NL 41-03-21; WL 80-35-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

CHESHIRE (GALLIA), OH - NL 38-56-27; WL 82-06-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

Frequency Information

SALEM (MAHONING), OH - NL 40-54-10; WL 80-46-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

MEMPHIS (SHELBY), TN - NL 35-08-46; WL 90-03-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

MEDINA (GIBSON), TN - NL 35-47-39; WL 88-47-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

MEMPHIS (SHELBY), TN - NL 35-07-40; WL 89-48-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

Frequency Information

RIPLEY (LAUDERDALE), TN - NL 35-42-29; WL 89-33-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

CUMBERLAND CITY (STEWART), TN - NL 36-22-43; WL 87-38-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

CALHOUN (MCMINN), TN - NL 35-19-07; WL 84-45-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

KINGSTON (ROANE), TN - NL 35-52-43; WL 84-29-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	FX	50M0W7W	121.618 W (ERP)	0.001 %

Frequency Information

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-37-59; WL 80-48-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-38-20; WL 81-21-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-05-08; WL 83-20-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-05-08; WL 81-30-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

Frequency Information

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-46-49; WL 80-38-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-05-52; WL 80-54-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-45-59; WL 80-49-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 41-03-21; WL 80-35-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

Frequency Information

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 38-56-27; WL 82-06-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 40-54-10; WL 80-46-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-08-46; WL 90-03-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-47-39; WL 88-47-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

Frequency Information

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-07-40; WL 89-48-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-42-29; WL 89-33-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 36-22-43; WL 87-38-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-19-07; WL 84-45-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

Frequency Information

MOBILE: Within 10 km radius of base, within 10 km, centered around NL 35-52-43; WL 84-29-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	50M0W7W	6.095 W (ERP)	0.1 %

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) AT&T Services, Inc. shall maintain operation separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (4) AT&T Services, Inc. shall consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas.
- (5) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (6) Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.