

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

EXPERIMENTAL
(Nature of Service)

XT FX MO
(Class of Station)

WI2XFM
(Call Sign)

0082-EX-CR-2021
(File Number)

NAME AT&T Services, 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(j) of the Commission's Rules

Station Locations

- (1) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (2) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (3) MOBILE: Austin, TX, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (4) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (5) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (6) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (7) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (8) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (9) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency Information

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3400-3600 MHz	FX	100MW7W 100MG7W 100MK1W	200 W (ERP)	
3400-3600 MHz	MO	100MW7W 100MG7W	0.04 W (ERP)	

This authorization effective May 01, 2021 and
will expire 3:00 A.M. EST May 01, 2024

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3400-3600 MHz	MO	100MK1W	0.04 W (ERP)	
3700-4200 MHz	FX	400MW7W	20 W (ERP)	
3700-4200 MHz	MO	400MW7W	20 W (ERP)	
14500-15350 MHz	FX	800MW7W	100 W (ERP)	
14500-15350 MHz	MO	800MW7W	0.63 W (ERP)	
27500-28500 MHz	FX	800MW7W	400 W (ERP)	
27500-28500 MHz	MO	800MW7W	2.5 W (ERP)	

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38500 MHz	FX	3G00W7W	398.1 W (ERP)	0.001 %

Frequency Information

MOBILE: Austin, TX, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38500 MHz	MO	3G00W7W	2.51 W (ERP)	0.001 %

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24250-27500 MHz	MO	100MW7W	19 W (ERP)	0.001 %

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24250-27500 MHz	MO	100MW7W	190 W (ERP)	0.001 %

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4700 MHz	FX	600MW7W	30 kW (ERP)	0.001 %

Frequency Information

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 MHz	MO	100MW7W	61 W (ERP)	0.001 %

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 MHz	MO	100MW7W	200 W (ERP)	0.001 %
4700 MHz	MO	600MW7W	200 W (ERP)	0.001 %

Special Conditions:

- (1) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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.
- (6) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (7) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (8) Licensee must coordinate with all earth station operating in the 3650-4200 MHz band pursuant to 47 C.F.R. §25.251

Special Conditions:

- (9) Licensee shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (10) Licensee must avoid pointing the transmitting antenna within 10 degrees of any point on the geostationary orbit arc while transmitting the signals at the 38.5 GHz band.
- (11) AT&T Services, Inc. must coordinate with the Fixed Microwave Service licensees around each test site in accordance with 47 CFR, Part 101.103(d) prior to operation in 3700-4200 MHz, 24250-27500 MHz, 27500-28500 MHz, and 37000-40000 MHz (38500 MHz) bands.
- (12) AT&T Services, Inc. is required to maintain a roll-off value of -57 dBW/200 MHz or lower in the 23.6-24 GHz band to avoid causing RFI to the microwave sounders supporting NOAA.
- (13) AT&T Services, Inc. must secure consents from the Upper Microwave Flexible Use Service licensees in the proposed areas prior to accessing to 24250-27500 MHz, 27500-28500 MHz, and 38500 MHz bands.

- (14) AT&T Services, Inc. must coordinate with Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 3700-4200 MHz, 27500-28500 MHz, and 24250-27500 MHz bands.

- (15) With respect to operations in 3700-4200 MHz band, Licensee should be made aware that they must avoid causing interference to existing FSS earth stations in the band. For applicant's reference, a list of registered incumbent FSS earth stations in the band can be found at the following link:<https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>

Special Conditions:

- (16) Prior to commencing any operations in the 3700-4200 frequency band, experimental licensee must notify licensees of C-band earth stations. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test. Please notify the following licensees:

Call Sign: E180517
 Licensee: KEYE Licensee, LLC
 ATTN: Mr Harvey Arnold
 Phone: 410-568-1500 Fax: E-Mail: harnold@sbgstv.com

Call Sign: E181099, E181159
 Licensee: Spectrum NLP, LLC
 ATTN: Alexis Anderten
 Phone: 303-323-1423 E-Mail: CharterFCC@Charter.com

Call Sign: E060176
 Licensee: KVUE Television, Inc.
 ATTN: MICHAEL BEDER
 Phone: 703-873-6902 Fax: 703-873-6331 E-Mail: MBEDER@TEGNA.COM

Call Sign: E990376
 Licensee: Associated Press
 ATTN: OLETA J. BROWN
 Phone: 816-654-1000 Fax: 816-654-1035 E-Mail: ojbrown@ap.org

Call Sign: E000617
 Licensee: Fox Broadcasting Company
 ATTN: Alastair Hamilton
 Phone: 310-369-6644

Call Sign: E182049
 Licensee: Altice USA, Inc.
 ATTN: Mrs Cindy Williams
 Phone: 9032664727 E-Mail: Cindy.Williams@AlticeUSA.com

- (17) AT&T Services, Inc. must coordinate its operations in the 3550-3600 MHz band with one or more authorized Spectrum Access System (SAS) administrators to obtain channel assignments and avoid causing harmful interference to authorized users of the band, including General Authorized Access (GAA) users.

Special Conditions:

- (18) With respect to operations in the 3700-4200 MHz band, AT&T Services, Inc. must avoid causing interference to the existing Fixed Service operators and FSS earth stations in the band. For applicant's reference, a list of registered incumbent FSS earth stations in the band can be found at the following link:
<https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>
- (19) Operation in the 37-40.5 GHz band must comply with the unwanted emission power levels of ITU Resolution 243.
- (20) Operation in the 24.25-27.5 GHz band must comply with the unwanted emission power levels of ITU Resolution 750.