

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

EXPERIMENTAL

(Nature of Service)

XT      MO

(Class of Station)

WA8XBD

(Call Sign)

1081-EX-ST-2026

(File Number)

NAME D-Fend Solutions AD 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:**

Please explain the purpose of operation: This testing will validate the environment and a VPN network and provide usable data for future improvements of the system.

**Station Locations**

- (1) MOBILE: within 4 km of coordinates, Jacksonville, FL, within 4 km, centered around NL 30-19-23; WL 81-38-20

**Frequency Information**

MOBILE: within 4 km of coordinates, Jacksonville, FL, within 4 km, centered around NL 30-19-23; WL 81-38-20

| Frequency       | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|-------------------------------|------------------|---------------------------|
| 912.2-915.9 MHz | MO            | 115KF1D                       | 1.93 W (ERP)     |                           |
| 2400-2483.5 MHz | MO            | 20M0D2D<br>79M2G1D<br>79M4F1D | 2.43 W (ERP)     |                           |

This authorization effective July 06, 2026 and  
will expire 3:00 A.M. EST September 27, 2026

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: within 4 km of coordinates, Jacksonville, FL, within 4 km, centered around NL 30-19-23; WL 81-38-20

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 5725-5850 MHz   | MO            | 95M5G1D<br>20M0D2D  | 1.53 W (ERP)     |                           |
| 24.45-24.65 GHz | MO            | 45M0FXN             | 246 W (ERP)      |                           |

## 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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/resources/frequency-coordination/> to find the appropriate coordinator.
- (3) Licensee must coordinate with the Fixed Microwave Service licensees in the proposed venues prior to operation in the frequencies from 2450 MHz to 2483.5 MHz.
- (4) Prior to commencing any operations in 912.2-915.9 MHz band, Licensee must obtain consent from licensees in this sub-band of Location & Monitoring Service (902-928 MHz) within 50 miles of the contours of the testing area.

**Special Conditions:**

- (5) Prior to commencing operations in the authorized frequency band(s), the experimental licensee must notify the potentially affected licensees below. 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 also include the testing parameters (e.g., specific location(s), frequency bands, antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Frequency Bands: 2482.710675-2483.424 MHz (E-s) (Call sign S3182)

Frequency Bands: 820-1280 MHz ((Earth-to-space) 2000-4000 MHz (S-band) (Call sign S3213)

Licensee: Spire Global, Inc. Phone Number: 415-356-3400

ATTN: Ms Francisca Adeuyi E-Mail: francisca.adeuyi@spire.com

Frequency Bands: 2400-2483.5 MHz FSS (s-E & E-s) (Call sign S3072)

Frequency Bands: 840-1400 MHz (Call sign S3170)

Licensee: Loft Orbital Solutions Inc. Phone Number: 410-382-5050

ATTN: Alex Greenberg E-Mail: alex@loftorbital.com

Frequency Bands: 2482.710675-2483.424 MHz (Call sign S3212, S3182)

Licensee: Hubble Network Inc Phone Number: 610-308-4638

ATTN: Abraham Marciano E-Mail: abe@hubblenetwork.com