



**Attachment to FCC Request for
Part 5 Experimental Special Temporary Authority
(ELS File No. 1278-EX-ST-2026; FRN 0031249345)**

DESCRIPTION OF APPLICATION AND PUBLIC INTEREST STATEMENT

Introduction

Dell Inc. (d/b/a Dell Technologies) is a leading technology innovator that collaborates with government agencies and industry partners across data analytics, communications infrastructure, and artificial intelligence. The company provides a comprehensive portfolio of solutions designed to enable data-driven insights wherever they are needed. By aligning customer operations and IT environments with a data-first strategy, Dell helps accelerate informed decision-making and achieve operational success at any scale.

Description of Request and Testing Purpose/Justification

This request for a Part 5 Experimental Special Temporary Authority (STA) is submitted to support Dell's Technology Tour event scheduled for July 21, 2026, at Aberdeen Proving Ground (APG), Maryland.

Dell intends to showcase its tactical 5G network solution to U.S. Federal and military stakeholders during this daylong event, which will highlight multiple technology domains within Dell's Federal solutions portfolio. The demonstration system will include a 5G Core, 5G-enabled mobile devices, Dell's n79-band 5G radio, and Dell's 5G Radio Access Network (RAN) hardware and software.

The system will be temporarily deployed outdoors within a designated parking area using a temporary mast. Dell personnel will demonstrate system deployment, operational performance, tactical use cases, and overall functionality of the 5G communications system.

Duration of Test

Dell intends to conduct testing activities over a one-day period in accordance with the scheduled event. However, Dell respectfully requests authorization for the two-day period from July 20, 2026, through July 21, 2026, to allow sufficient time for system installation, configuration, and pre-demonstration testing, as permitted under the requested STA.

Location of Test Site

This testing activity will be conducted outdoors within a 0.2-kilometer radius of the coordinates 39° 28' 37" N, 76° 07' 29" W (NAD83). The test location is a designated area for system demonstrations. Surrounding buildings, tree cover, and local topographical features provide attenuation that helps limit RF propagation toward the nearest airfield, which is located approximately 3.3 kilometers from the test site.



Requested Spectrum and Modulation Techniques:

Band	4600 – 4700 MHz
Bandwidth:	100 MHz
Emission Designator	100MW7D
Modulation	OFDM (5G NR)

Technical Specifications

Fixed Radio Units	Dell DRU79440-1
Mobile Radio Units	TBD and/or prototype
Interface	O-RAN Split 7.2
Transmit Output Power	FX: 4 x 2.5 W conducted (mean) MO: 200 mW (mean)
Antenna	FX: Andrew UU-360F-S Omnidirectional, 14.1 dBi gain (peak) MO: Internal omnidirectional 0 dBi gain (peak)
ERP	FX: 157 W (total) MO: 474 mW (total)

Antenna Information and Compliance with RF Exposure Limits:

A temporary fixed antenna will be installed at the test site for the duration of operations. The antenna will be mounted at a height of 6 meters above ground level, will operate with an omnidirectional pattern in the azimuth plane, and will have a fixed 4-degree downward tilt in the elevation plane.

All transmissions will comply with applicable FCC rules governing human exposure to radiofrequency (RF) energy, including FCC KDB 447498. Appropriate RF exposure signage and access controls will be implemented at the site.

All personnel operating equipment under this experimental authorization are trained in RF safety and are knowledgeable regarding RF exposure considerations. Personnel will maintain the ability to control and limit their exposure in accordance with applicable requirements.

Interference Mitigation

Dell does not expect its proposed operations to cause harmful interference due to the low antenna height and the antenna's downward tilt. Nevertheless, in the unlikely event that interference is observed, the designated stop-buzzer contact identified below will be available to immediately suspend operations until the issue is resolved.

In addition:

- All applicable Aberdeen Proving Ground range and safety regulations will be strictly followed.



- The deployed radio supports software-configurable transmit power control and will be operated at the minimum power levels necessary to support the demonstration. Transmit power will be further reduced, if necessary, to mitigate any unanticipated interference.

Stop Buzzer Contact

The primary stop buzzer contact that will be onsite during the proposed testing is:

Johnathan Green
Dell Technologies
501 Dell Way
Round Rock, TX 78664
E-mail Address: johnathan.green@dell.com
Telephone Number: +1 512 550 5368 (mobile)

The alternate stop buzzer contact for the proposed testing is:

Manuel Kaputsos
APG Frequency Manager
6836 Civil Road
Aberdeen Proving Ground, MD 21005-5001
Telephone Number: +1 410 306 2753 (mobile)

Other Contacts

Dell Technical Contact:
Aaron Farnham
Dell Technologies
1000 Innovation Dr. Suite 300
Kanata ON Canada
E-mail Address: aaron.farnham@dell.com

Dell Regulatory Contact:
Don Bobo
Dell Technologies
1 Dell Way
Round Rock TX 78664
E-mail Address: don.bobo@dell.com

Conclusion

Dell Technologies respectfully requests favorable consideration of this STA application, including any required NTIA/IRAC coordination, as the proposed operations are in the public interest. Grant of this request will enable the demonstration of secure, rapidly deployable tactical 5G capabilities in support of the Department of Defense's communications modernization objectives.