Ka-Band Earth Station – Dupont, GA Frequency Coordination Report 28 GHz



Prepared on Behalf of ViaSat, Inc.

July 31, 2021





Table of Contents

1.	Summary of Results	- 2 -
2.	28 GHz Common Carrier Coordination	- 2 -
3.	28 GHz UMFUS Coordination	- 3 -
4.	Earth Station Coordination Data	- 4 -
5.	Contact Information	- 5 -



1. Summary of Results

On behalf of ViaSat. Inc., Comsearch issued coordination notice under Section 25.203(c) and Section 25.136(a)(4) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka-Band earth station in Dupont-GA, which will transmit at 28 GHz¹. Prior-notification emails were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on July 29, 2021.

No objections were received from any of the incumbent 28 GHz licensees.

2. 28 GHz Common Carrier Coordination

In accordance with FCC Rules and Regulations, the Ka-Band earth station in Dupont, GA was prior-coordinated by Comsearch. A notification email, datasheet and Google Earth file showing the area around the site outside which the -77.6 dBm/m2 per MHz threshold value is not exceeded for this earth station were sent to the following 28 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
AT&T	Statewide

No objections were received from the common carrier incumbent.

4

 $^{^{1}}$ The proposed earth station will operate in the 27.5 – 29.1 GHz & 29.5 – 30.0 GHz portion of the KaBand.



3. 28 GHz UMFUS Coordination

All 28 GHz UMFUS licensees within the coordination distance of the proposed earth station were identified. The proposed earth station will operate on frequencies that overlap Channel L1 & L2 of the UMFUS service. The total frequency allocation for Channels L1 & L2 of the UMFUS spectrum appears below.

Channel: L1 27.500 - 27.925 GHz

L2 27.925 - 28.350 GHz

Licensee	Authorized Geographic Area
Verizon	Market Based

No objections were received from the UMFUS incumbents within coordination distance.



4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-Band earth station in Dupont, GA. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

Date:					
Administrative Information Status ENGINEER PROPOSAL	Date:	06/2	9/2021		
Status	Job Number: 2106		S29COMSNR07		
Call Sign Licensee Code VIASAT Licensee Name ViaSat, Inc	Administrative Info	rmation			
Licensee Code	Status EN		INEER PROPOSAL		
Licensee Name			TARAIL		
Venue Name Latitude (NAD 83) 30° 49' 32.88" N Longitude (NAD 83) 82° 54' 16.80" W Climate Zone A Rain Zone 1 Ground Elevation (AMSL) 50.07 m / 164.3 ft Link Information Satellite Type Satellite Type Geostationary Mode TO - Transmit-Only Modulation Digital Satellite Arc 78" W to 91" West Longitude Azimuth Range 170.5" to 195.5" Corresponding Elevation Angles 53.7" / 53.0" Antenna Centerline (AGL) 1.2 m / 3.9 ft Antenna Information Transmit - VES000 Manufacturer VIASATINC. Model 13138XX Gain / Diameter 52.0 dBi / 1.8 m 3-dB / 15-dB Beamwidth 0.40" / 0.80" Max Available RF Power (dBW/MHz) 42.5 (dBW/MHz) -18.5 Maximum EIRP (dBW/MHz) -18.5 Interference Objectives: Long Term -141.0 dBW/4 kHz 20% Frequency Information Transmit 28.0 GHz					
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Canal Company Canal Company					
Satellite Type	Ground Elevation (AM:	SL) 50.07	7 m / 164.3 ft		
Mode					
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Azimuth Range					
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Emission / Frequency Range (MHz) 464MG7D / 27500.0 - 29500.0					
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	Coordination Distance		3.5 km / 2.18 mi		
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5. Contact Information

For questions or information regarding the 28 GHz Frequency Coordination Report, please contact:

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Company: Comsearch

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