Ka-Band Earth Station – Coatesville, IN Frequency Coordination Report 28 GHz



Prepared on Behalf of ViaSat, Inc.

July 31, 2021





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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 Coatesville-IN, 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 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.

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



3. Earth Station Coordination Data

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

Date:	06/29	9/2021			
		629COMSNR05			
Administrative Informat					
Status	ENG	ENGINEER PROPOSAL			
Call Sign Licensee Code	1/140	MACAT			
Licensee Code Licensee Name		VIASAT ViaSat, Inc			
Licensee Name	viase	at, iiic			
Site Information	COA	TESVILLE, IN			
Venue Name					
Latitude (NAD 83)		39° 37' 51.91" N			
Longitude (NAD 83)		2' 38.41" W			
Climate Zone	A 2				
Rain Zone Ground Elevation (AMSL)	_	25 m / 883.4 ft			
Cround Elevation (AWISE)	203.2	1 F.000 TIL			
Link Information					
Satellite Type		stationary			
Mode		Transmit-Only			
Modulation		Digital			
Satellite Arc		V to 91° West Longitude			
Azimuth Range Corresponding Elevation An		166.5° to 186.7°			
Antenna Centerline (AGL)		43.3" / 43.9" 1.2 m / 3.9 ft			
	1.2 11				
Antenna Information		Transmit - VES000			
Manufacturer		VIASAT INC.			
Model		13138XX			
Gain / Diameter 3-dB / 15-dB Beamwidth		52.0 dBi / 1.8 m			
3-dB / 15-dB Beamwidth		0.40° / 0.80°			
Max Available RF Power (di	BW/4 kHz)	42.5			
	BW/MHz)	-18.5			
	BW/4 kHz)	9.5			
(di	BW/MHz)	33.5			
Interference Objectives: Long	g Term	-141.0 dBW/4 kHz 20%			
	rt Term	-118.0 dBW/4 kHz 0.0025%			
Frequency Information		Transmit 28.0 GHz			
Emission / Frequency Range (MHz	Z)	464MG7D / 27500.0 - 29500.0			
Coordination Distance		3.5 km / 2.18 mi			
		-			



4. Contact Information

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

Contact person: Naveen Raghavan
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