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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY FCC Use Only

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Tuscon Gateway Earth Station #4

Name: ViaSat, Inc. Phone Number: 760–476–2583

DBA Fax Number: 760–929–3941

Name:

Street: 6155 El Camino Real E–Mail: daryl.hunter@viasat.com

City: Carlsbad State: CA

Country: USA Zipcode: 92009 -

Attention: Mr Daryl T Hunter

9–16. Name of Contact Representative

Name: Daryl T. Hunter, P.E. **Phone Number:** 760–476–2583

Company: ViaSat, Inc. Fax Number: 760–949–3934

Street: 6155 El Camino Real E–Mail: daryl.hunter@viasat.com

City: Carlsbad State: CA

Country: USA Zipcode: 92009–

Attention: Daryl T. Hunter, P.E. **Relationship:** Same

CLASSIFICATION OF FILING

17. Choose the button next to the	b.			
classification that applies to this filing for	b1. Application for License of New Station			
both questions a. and b. Choose only one	b2. Application for Registration of New Domestic Receive–Only Station			
for 17a and only one for 17b.				
	(N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration			
a.	(N/A) b5. Assignment of License or Registration			
a1. Earth Station	(N/A) b6. Transfer of Control of License or Registration			
(N/A) a2. Space Station	(N/A) b7. Notification of Minor Modification			
	(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed			
	Satellite			
	(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United			
	States h 10. Other (Please specify)			
	o b10. Other (Please specify)			
	▶ b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to			
	Provide the Proposed Service in the Proposed Frequencies in the United States.			
	(N/A) b13. Amendment to a Pending Database Entry Application			
	(N/A) b14. Modifiction of Database Entry			
17c. Is a fee submitted with this applicati	on?			
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).			
Governmental Entity Noncomme	ercial educational licensee			
Other(please explain):	-			
17d.				
	Fee Classification BAX – Fixed Satellite Transmit/Receive Earth			
Station				

18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a (a) Date pending application was filed:	pplication enter: (b) File number of pending application:
(a) Call sign of station: Not Applicable	Not Applicable	Not Applicable

TYPE OF CEDVICE

TYPE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provide	or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose only one. Common Carrier Non–Common Carrier	22. If earth station applicant, check all that apply. We using U.S. licensed satellites Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER sifacilities: Connected to a Public Switched Network Not connected to 	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these to a Public Switched Network

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: 18300 Frequency Upper: 30000
TYPE OF STATION
25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non–Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit-Only Receive-Only N/A
PURPOSE OF MODIFICATION
TORIOSE OF MODIFICATION
27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections	O Yes	No
1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	Exhibit B	- 25.138
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronau eronautical fixed radio station services are not required to respond to Items 30–34.	tical en route	or

29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No
30. Is the applicant an alien or the representative of an alien?	O Yes ⊗ No O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O No N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes No O N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes ⊗ No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	Exhibit C1 – 25.209
BASIC QUALIFICATIONS	
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	
	Exhibit C2 – 25.209
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes O No
	Exhibit C3 – 25.209

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	Yes No Exhibit C4 – 25.209
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	Yes No Exhibit D – RF Haz
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	Yes No Exhibit E – FAA
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.	

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. Set 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	1997 1.7
42b. What administration has licensed or is in the process of licensing the space station? If no license will be iss coordinated or is in the process of coordinating the space station? UK / Isle of Man	sued, what administration has
43. Description. (Summarize the nature of the application and the services to be provided). (I not appear in this box, please go to the end of the form to view it in its entirety.)	If the complete description does
Gateway earth station providing service to ViaSat-1 satellite at 115.1 W	VL.

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o c

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button n	ext to applicable response	·.)		
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 				
45. Name of Person Signing Daryl T. Hunter		46. Title of Person Si Director, Regulatory	S S	
47. Please supply any need attachments.				
Attachment 1: Exhibit A – Narrativ	Attachment 2:		Attachment 3:	
(U.S. Code, Title 18,	Section 1001), AND/OR	REVOCATION OF AN	BY FINE AND / OR IMPRISONMEN Y STATION AUTHORIZATION Code, Title 47, Section 503).	T

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: Tuscon GW #4 E5. Call Sign:

E2: Contact Name Daryl T. Hunter E6. Phone 1–888–272–7232

Number:

E3. Street: 460 S. Toole Ave. E7. City: Tuscon

E8. County: Pima

E4. State AZ E9. Zip Code 85701

E10. Area of Operation: Fixed

E11. Latitude: 32 °12 '57.17 "N

E12. Longitude: 110 °57 '42.68 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 736.24 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	● Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	Yes	٥	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	Yes	٥	No
POINTS OF COMMUNICATION			
Satellite Name: PERMITTED LIST PERMITTED LIST If you selected OTHER, please enter the following	:		

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: WILDBLUE 1 WILDBLUE 1 111.1 W.L. If you	u selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC-15 AMC-15 105 W.L. If you selected O'	ΓHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: ANIK-F2 ANIK-F2 111.1 W.L. If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:OTHER OTHER If you selected OTHER, pleas	se enter the following:
E21. Common Name: VIASAT-1	E22. ITU Name: IOMSAT-11A
E23. Orbit Location: 115.1	E24. Country: United Kingdom
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Tuscon GW #4	GW 4	1	ViaSat, Inc.	VA-7.3-KA	7.3	65.52 dBi at 30
						61.9 dBi at 18.3
						62.75 dBi at 20.2
						65.39 dBi at 29.1
						65.29 dBi at 28.35

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
GW 4	0.0/0.0	9.982	746.222	3.6576	200.0	6.3246	74.0

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
GW 4	29500 29504	Т	Left and Right Circular	1M00F2D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Not used,	please delete	this entry				
GW 4	29500 29504	Т	Left and Right Circular	1M000G2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Not used,	please delete	this entry				
GW 4	18300 19300	R	Left and Right Circular	20M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
PSK digita	ıl data for Int	ernet to home	services			
GW 4	19700 20200	R	Left and Right Circular	20M0G7D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its			
	l data for Int	ernet to home	services						
GW 4	29999 30000	Т	Left and Right Circular	1K00N0N	0.0	0.0			
entirety.)	E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Not used, please delete this entry								
GW 4	28100	Т	Left and Right	416MG7D	69.0	18.9			
E50. Modulation entirety.)	E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)								
PSK digital data for Internet to home services									
GW 4	28100 29100	Т	Left and Right Circular	52M1G7D	60.0	18.9			

E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear	in this box, please g	o to the end of the	form to view it in its
PSK digita	l data for Int	ernet to home	services			
GW 4	29500 30000	Т	Left and Right Circular	416MG7D	69.0	18.9
PSK digita	l data for Int					form to view it in its
GW 4	29500 30000	Т	Left and Right Circular	52M1G7D	60.0	18.9
E50. Modulation entirety.) PSK digita	and Services (If the			in this box, please g	o to the end of the	form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
GW 4	Geostationary	18300 19300	39.0/ 183.0	99.9	6.6	260.2	6.5	0.0
	Geostationary	19700 20200	39.0/ 183.0	99.9	6.6	260.2	6.5	0.0
	Geostationary	28100 29100	39.0/ 183.0	99.9	6.6	260.2	6.5	-41.3
	Geostationary	29500 30000	39.0/ 183.0	99.9	6.6	260.2	6.5	-41.3

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E65. Phone Number 720–554–7575			
E62. Street Address 5970 South Greenwood Plaza Blv Suite 300				
E63. City Greenwood Village	E67. County Arapahoe		E64/68. State/Country CO/ USA	E66. Zip Code 80111

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