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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

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

RaySat Title III Application

1–8. Legal Name of Applicant

RaySat, Inc. **Phone Number:** 703–584–3770

DBA Fax Number: 703–584–3775

Name:

Name:

Street: 8460–D Tyco Road E–Mail: ilan@raysat.com

City: Vienna State: VA

Country: USA Zipcode: 22182 -

Attention: Ilan Kaplan

9–16. Name of Contact Representative

Name: Bruce A. Henoch Phone Number: 301–230–6569

Company: Shulman Rogers Gandal Pordy & Fax Number: 301–230–2891

Ecker

Street: 11921 Rockville Pike E–Mail: bhenoch@srgpe.com

Suite 300

City: Rockville State: MD

Country: USA Zipcode: 20852-

Attention: Bruce A. Henoch **Relationship:** Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

a1. Earth Station

(N/A) a2. Space Station

h

b1. Application for License of New Station

6 b2. Application for Registration of New Domestic Receive-Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

(N/A) b5. Assignment of License or Registration

(N/A) b6. Transfer of Control of License or Registration

(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

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.

17c. Is a fee submitted with this application?				
o 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 Noncommercial educational licensee				
Other(please explain): Refiling of a	pplication identical to dismissed application pur	rsuant to 47 CFR 1.1109(d)		
17d.				
Fee Classification BGB – Mobile Satellite Authorization	e Earth Stations Blanket			
18. If this filing is in reference to an	19. If this filing is an amendment to a pending	ng application enter:		
existing station, enter:	(a) Date pending application was filed:	(b) File number of pending application:		
(a) Call sign of station: Not Applicable	Not Applicable	Not Applicable		
TYPE OF SERVICE	.1			
20. NATURE OF SERVICE: This filing is	for an authorization to provide or use the follow	wing 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)				

plicant, check all that apply.
ed satellites
licensed satellites
regarding Sec. 214 filings. Choose one. Are these
etwork O N/A
nd(s).
nly one.

PURPOSE OF MODIFICATION

Yes No No RadHaz StealthRay
tical en route or
O Yes O No
O Yes O No ⊗ N/A

31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	O No	o 📵 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	O 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	O 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.				
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.	•	Yes	O No	

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	⊚ No
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.	O Yes	No
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	O Yes	⊚ No
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.	O Yes	⊚ No

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 of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
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.	○ Yes	⊚ No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, w coordinated or is in the process of coordinating the space station?	hat administr	ation has

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

RaySat is applying for authorization to operate up to 4,000 vehicle-mounted remote mobile satelite antennas on a secondary basis in the Ku-Band. All operations will be in CONUS, and communication will be with the satellites specified in the Application. In connection with this Application, RaySat seeks waivers of the Commission's rules as specified in the

Application Text

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.

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 next to applicable response.)	
O Individual	
O Unincorporated Association	
O Partnership	
© Corporation	
Governmental Entity	
Other (please specify)	

45. Name of Person Signing Bruce A. Henoch		46. Title of Person Counsel	Signing	
47. Please supply any need attachm	ents.			
Attachment 1:	Attachment 2:		Attachment 3:	
(U.S. Code,		OR REVOCATION OF AN	E BY FINE AND / OR IMPRISONY STATION AUTHORIZATION. Code, Title 47, Section 503).	01 (1/1221 (1

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: Remote1 E5. Call Sign:

E2: Contact Name Ilan Kaplan E6. Phone 703 584 3770

Number:

E3. Street: various E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

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

E14. Site Elevation (AMSL): 0.0 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.	OY	'es	⊚ No	С	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?	OY	'es	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	c	No	0
	•				
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	۰ '	Yes	•	No	0
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	۰ ٬	Yes	•	No	0
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	•	No	0
POINTS OF COMMUNICATION					
Satellite Name:SBS-6 SBS-6 74 DEG. WL If you selected OTHER, please enter the following:					

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name:INTELSAT 8 INTELSAT 89 W.L. If you select	ed OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: HORIZONS 1 HORIZONS 1 127 DEG WL If	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name: AMC-5 (formerl GE-5 AMC-5 79 W.L. If you	selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC-6 AMC-6 72 W.L. If you selected OTHI	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:IA-7 IA-7 129 W.L. If you selected OTHER, p	lease enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name: AMC-4 (formerl GE-4 AMC-4 101 W.L. If yo	ou selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: Remote1	
E26. Common Name:	E27. Country: USA

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)
Remote1	Remote1	4000	RaySat	StealthRay	0.124	27.5 dBi at 14
						30.2 dBi at 12

Id	E33/34. Diameter Minor/Major (meters)		(meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Remote1	0.08/0.59	0.5	0.0	0.0	2.0	0.5	30.5

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Remote1	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
	digital data r	eceive				
Remote1	11700 12200	R	Horizontal and Vertical	512KG7W	0.0	0.0
Narrowband	l digital data	receive				
Remote1	14000 14500	Т	Horizontal and Vertical	2M07G7W	30.5	3.38
E50. Modulation entirety.) BPSK Rate				this box, please go t	o the end of the form	to view it in its
Remote1	14000 14500	Т	Horizontal and Vertical	518KG7W	30.5	9.38

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.)

BPSK, Rate 1/3 digital carrier

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Remote1	Geostationary	11700 12200	72.0/ 129.0	0.0	10.0	0.0	10.0	0.0
	Geostationary	14000 14500	72.0/ 129.0	0.0	10.0	0.0	10.0	-5.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign E950149 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E65. Phone Number 303–799–0990		
E62. Street Address 58 Inverness Drive East				
E63. City Englewood	E67. County Arapahoe		E64/68. State/Country CO/ USA	E66. Zip Code 80112

E61. Call Sign E040475 NOTE: Please enter the callsign of the contr callsign for which this application is being filed		E65. Phone Number (240) 420–3750	r	
E62. Street Address 17625 Technology Blvd				
E63. City Hagerstown	E67. County Washington		E64/68. State/Country MD/ USA	E66. Zip Code 21740
E61. Call Sign E040141 NOTE: Please enter the callsign of the contr callsign for which this application is being filed		E65. Phone Numbe (240) 420–3750	r	
E62. Street Address 17625 Technology Blvd				
E63. City Hagerstown	E67. County Washington		E64/68. State/Country MD/ USA	E66. Zip Code 21740
E61. Call Sign E860326 NOTE: Please enter the callsign of the contractllsign for which this application is being filed		E65. Phone Numbe 703–848–1000	r	
E62. Street Address 1750 Old Meadow Road		1		

E63. City McLean	E67. County Fairfax		E64/68. State/Country	E66. Zip Code 22102
Wellean	Fantax		VA/ USA	22102
E61. Call Sign		E65. Phone Number		
E050007		(704) 588–2233		
NOTE: Please enter the callsign of callsign for which this application is be				
E62. Street Address 11101 Nations Ford Road				
E63. City Charlotte	E67. County Mecklenburg		E64/68. State/Country	E66. Zip Code 28273
Charlotte	Wicekichourg		NC/ USA	20273
	<u> </u>			1
E61. Call Sign E920698 NOTE: Please enter the callsign of eallsign for which this application is be		E65. Phone Number (410) 795–8600		
E62. Street Address	enig med.			
2823 Grimville Road				
E63. City	E67. County		E64/68.	E66. Zip Code
Woodbine	Carroll		State/Country MD/ USA	21771
E61. Call Sign		E65. Phone Number		
KA416		866–303–4277		
NOTE: Please enter the callsign of callsign for which this application is be				

E62. Street Address 8890 Monard Drive				
E63. City Silver Spring	E67. County Montgomery		E64/68. State/Country MD/ USA	E66. Zip Code 20910
E61. Call Sign E040414 NOTE: Please enter the callsign of the callsign for which this application is being the calls and the calls are the call are the calls are the call are the cal		E65. Phone Number (240) 420–3750	er	
E62. Street Address 17625 Technology Blvd				
E63. City Hagerstown	E67. County Washington		E64/68. State/Country MD/ USA	E66. Zip Code 21740
E61. Call Sign E040140 NOTE: Please enter the callsign of the callsign for which this application is being the calls and the calls are the call a	C .	E65. Phone Number (240) 420–3750	er	
E62. Street Address 17625 Technology Blvd				
E63. City Hagerstown	E67. County Washington		E64/68. State/Country MD/ USA	E66. Zip Code 21740

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to jboley@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

43. Description. (Summarize the nature of the application and the services to be provided).

RaySat is applying for authorization to operate up to 4,000 vehicle-mounted remote mobile satelite antennas on a secondary basis in the Ku-Band. All operations will be in CONUS, and communication will be with the satellites specified in the Application. In connection with this Application, RaySat seeks waivers of the Commission's rules as specified in the attached application text.