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APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
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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			
Name:	RaySat, Inc.	Phone Number:	703-584-3770
DBA Name:		Fax Number:	703-584-3775
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 & Ecker	Fax Number:	301-230-2891
Street:	11921 Rockville Pike Suite 300	E-Mail:	bhenoch@srgpe.com
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

b.

- b1. Application for License of New Station
- 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
- 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.

<p>17c. Is a fee submitted with this application?</p> <p><input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).</p> <p><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other (please explain):</p>					
<p>17d.</p> <p>Fee Classification BGB – Mobile Satellite Earth Stations Blanket Authorization</p>					
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: Not Applicable</p>	<p>19. If this filing is an amendment to a pending application enter:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">(a) Date pending application was filed:</td> <td style="width: 50%;">(b) File number of pending application:</td> </tr> <tr> <td style="text-align: center;">Not Applicable</td> <td style="text-align: center;">Not Applicable</td> </tr> </table>	(a) Date pending application was filed:	(b) File number of pending application:	Not Applicable	Not Applicable
(a) Date pending application was filed:	(b) File number of pending application:				
Not Applicable	Not Applicable				

TYPE OF SERVICE

<p>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:</p>
<p><input type="checkbox"/> a. Fixed Satellite</p> <p><input checked="" type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><input type="checkbox"/> g. Other (please specify)</p>

<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input checked="" type="checkbox"/> Using U.S. licensed satellites</p> <p><input type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network <input checked="" type="radio"/> Not connected to a Public Switched Network <input type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).</p> <p><input type="checkbox"/> a. C-Band (4/6 GHz) <input checked="" type="checkbox"/> b. Ku-Band (12/14 GHz)</p> <p><input type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)</p> <p>Frequency Lower: Frequency Upper:</p>	

TYPE OF STATION

<p>25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.</p> <p><input type="radio"/> a. Fixed Earth Station</p> <p><input type="radio"/> b. Temporary-Fixed Earth Station</p> <p><input type="radio"/> c. 12/14 GHz VSAT Network</p> <p><input checked="" type="radio"/> d. Mobile Earth Station</p> <p>(N/A) e. Geostationary Space Station</p> <p>(N/A) f. Non-Geostationary Space Station</p> <p><input type="radio"/> g. Other (please specify)</p>
<p>26. TYPE OF EARTH STATION FACILITY: Choose only one.</p> <p><input checked="" type="radio"/> Transmit/Receive <input type="radio"/> Transmit-Only <input type="radio"/> Receive-Only <input type="radio"/> N/A</p>

PURPOSE 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 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.

Yes No

RadHaz Study

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government? Yes No

30. Is the applicant an alien or the representative of an alien? Yes No N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes 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?

Yes No 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?

Yes No 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 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 explanation of circumstances.

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 explanation of circumstances.

Yes No

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting 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

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 exhibit, an explanation of the circumstances.

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 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, what administration has coordinated or is in the process of coordinating the space station?

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 satellite 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 a waiver of the Commission's rules as specified

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.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing Bruce A. Henoch	46. Title of Person Signing Counsel
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47. Please supply any need attachments.

Attachment 1:	Attachment 2:	Attachment 3:
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WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT
(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION
(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

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 Number:	703 584 3770
E3. Street:	various	E7. City:	
E4. State		E8. County:	
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:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

<p>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.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A</p>
<p>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?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>

<p>E18. Is frequency coordination required? If YES, attach a frequency coordination report as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>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.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

POINTS OF COMMUNICATION

<p>Satellite Name:SBS-6 SBS-6 74 DEG. WL If you selected OTHER, please enter the following:</p>

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

Satellite Name:INTELSAT 8 INTELSAT 89 W.L. If you selected 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 (formerly 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 OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:IA-7 IA-7 129 If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:AMC-4 (formerly GE-4 AMC-4 101 W.L. If you selected OTHER, please enter the following:	
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E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

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>	E41/42. Antenna GainTransmint and/or Recieve (____ dBi at ____ GHz)
Remote1	Remote1	4000	RaySat	StealthRay	0.124	27.5 dBi at 14
						30.2 dBi at 12

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	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

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	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 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.)

Broadband digital data receive

Remote1	11700 12200	R	Horizontal and Vertical	512KG7W	0.0	0.0
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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.)

Narrowband digital data receive

Remote1	14000 14500	T	Horizontal and Vertical	2M07G7W	30.5	3.38
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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

Remote1	14000 14500	T	Horizontal and Vertical	518KG7W	30.5	9.38
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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	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)
Remote1	Geostationary	11700 12200	72.0/ 129.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000 14500	72.0/ 129.0	0.0	0.0	0.0	0.0	-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 controlling station, not the callsign for which this application is being filed.		E65. Phone Number (240) 420-3750	
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 controlling station, not the callsign for which this application is being filed.		E65. Phone Number (240) 420-3750	
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 controlling station, not the callsign for which this application is being filed.		E65. Phone Number 703-848-1000	
E62. Street Address 1750 Old Meadow Road			

E63. City McLean	E67. County Fairfax	E64/68. State/Country VA/ USA	E66. Zip Code 22102
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E61. Call Sign E050007 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E65. Phone Number (704) 588-2233
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E62. Street Address 11101 Nations Ford Road
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E63. City Charlotte	E67. County Mecklenburg	E64/68. State/Country NC/ USA	E66. Zip Code 28273
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E61. Call Sign E920698 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E65. Phone Number (410) 795-8600
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E62. Street Address 2823 Grimville Road
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E63. City Woodbine	E67. County Carroll	E64/68. State/Country MD/ USA	E66. Zip Code 21771
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E61. Call Sign KA416 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E65. Phone Number 866-303-4277
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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 controlling station, not the callsign for which this application is being filed.		E65. Phone Number (240) 420-3750	
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 controlling station, not the callsign for which this application is being filed.		E65. Phone Number (240) 420-3750	
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

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Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

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 satellite 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 a waiver of the Commission's rules as specified herein.