



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

Note: Use only standard punctuation. Please do not use special characters - such as ';' - in any of the fields below!
Enter a description of this application to identify it on the main menu:

Application for Ku-Band ESAA blanket license.

1-8. Legal Name of Applicant

Name: RiteNet Corp.	Phone Number: 240-505-4996
DBA Name:	Fax Number:
Street: 1445 Research Blvd Suite 505	E-Mail: rramineni@ritenet.com
City: Rockville	State: MD
Country: USA	Zipcode: 20850 -6111
Attention: Mr. Rao Ramineni	

9-16. Name of Contact Representative

Name: Carlos M. Nalda	Phone Number: 5713325626
Company: LMI Advisors	Fax Number:
Street: 2550 M Street, NW, Suite 30	E-Mail: cnalda@lmiadvisors.com
City: Washington	State: DC
Country: USA	Zipcode: 22037 -
Attention: Mr. Carlos Nalda	Relationship: Other

CLASSIFICATION OF FILING

<p>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.</p> <p>a. <input checked="" type="radio"/> a1. Earth Station (N/A)a2. Space Station</p>	<p>b.</p> <p><input checked="" type="radio"/> b1. Application for License of New Station</p> <p><input type="radio"/> b2. Application for Registration of New Domestic Receive-Only Station</p> <p>(N/A) b3. Amendment to a Pending Application</p> <p>(N/A) b4. Modification of License or Registration</p> <p>(N/A) b5. Assignment of License or Registration</p> <p>(N/A) b6. Transfer of Control of License or Registration</p> <p>(N/A) b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p>(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p><input type="radio"/> b10. Other (Please specify) <input style="width: 150px;" type="text"/></p>
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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?

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):

17d. Fee Classification **BGB - Mobile Satellite Earth Stations Blanket Authorization**

18. If this filing is in reference to an existing station, enter:

(a) Call sign of station:
Not Applicable

19. If this filing is an amendment to a pending application enter:

(a) Date pending application was filed: (b) File number of pending application:

Not Applicable

Not Applicable

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) **ESAA**

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.

- Using U.S. licensed satellites
 Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

Connected to a Public Switched Network Not connected to a Public Switched Network N/A

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: Frequency Upper:

(Please specify additional frequencies in an attachment.) **Attachment**

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) **ESAA**

26. TYPE OF EARTH STATION FACILITY: Choose only one.

Transmit/Receive Transmit-Only Receive-Only N/A

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

Attachment

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.

Attachment

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

Attachment

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

Attachment

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

Attachment

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

Attachment

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

Attachment

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.

Attachment

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

Yes No

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.*

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

Attachment

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?

Permitted List

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

Application for Ku-Band ESAA blanket license.

Attachment

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.

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.

C

Attachment

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

Rao Ramineni

46. Title of Person Signing

President

**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).**

Form 312 Schedule B

Schedule S

By pressing this button, you will be sent to the technical data entry form for this earth station.

Please attach your Schedule S.mdb File here. This form only permits you to attach one (1) Schedule S .mdb file to this application. If you have more than one Schedule S .mdb file to associate with this application, please file the form, then e-mail the additional Schedule S .mdb file(s) to IBFSINFO@fcc.gov, using the subject line of "Schedule S Attachment." Include the file number of the filed application in the body of the mail message. For SES-LFS-type applications (Applications 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), please attach the Schedule S .mdb file you completed for the foreign satellite with which you want to communicate, using the Schedule S software.

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SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)

FOR OFFICIAL USE ONLY

1 copy of this form section exist.

Approved by OMB
Control No. 3060-0678

SITE INFORMATION

E1: Site Identifier: ESAA Network
E2: Contact Name: NOC
E3: Street: 13665 Dulles Technology Drive
E4: Zipcode: 20171
E5: Call Sign:
E6: Phone Number: 7033919970
E7: City: Herndon
E8: County: Fairfax
E9: State: VA

NOTE: The address requested here is for the earth station location - not your mailing address.

E10: Area of Operation: U.S., Foreign, and International Airspace

E11: Latitude
E12: Longitude

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

E14: Site Elevation (AMSL): 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 Attachment a technical analysis showing compliance with two-degree spacing policy.

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?

E17: Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. Remote Control

E18: Is frequency coordination required? If YES, attach a frequency coordination report as Attachment

E19: Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Attachment

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? Attachment**FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.**

Points of Communication

Antenna

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FCC Form 312 - Schedule B:(Technical and Operational Description)**

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**REMOTE CONTROL
Site Identifier: ESAA Network**

E61. Callsign:	<input type="text"/>	E65. Phone Number:	<input type="text" value="7033919970"/>
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street:	<input type="text" value="13665 Dulles Technology Dri"/>	E66. Zipcode:	<input type="text" value="20171"/>
	<input type="text" value="Suite 300"/>	E67. County:	<input type="text" value="Fairfax"/>
E63. City:	<input type="text" value="Herndon"/>	E68. State:	<input type="text" value="VA"/>
E64. Country:	<input type="text" value="USA"/>		

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Federal Communications Commission

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

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Control No. 3060-0678

POINTS OF COMMUNICATION

Site Identifier: ESAA Network

Satellite Name: ▼ If you selected OTHER, please enter the following:

E21: Common Name:

E22: ITU Name:

E23: Orbit Location:

E24: Country:

Destination Points

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FCC Form 312 - Schedule B:(Technical and Operational Description)

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Approved by OMB
Control No. 3060-0678

ANTENNA
Site Identifier: ESAA Network

E28: Antenna ID: BB45Ku

E29: Quantity: 50

E30: Manufacturer: SkyTech

E31: Model: BB45

E32: Diameter (meters): 0.45

E33: Diameter Minor (meters):

E34: Diameter Major (meters):

E35: Maximum Antenna Height Above Ground Level (meters): 3.0

E36: Maximum Antenna Height Above Mean Sea Level (meters):

E37: Building Height Above Ground Level (meters):

E38: Total Power at Antenna Flange for All Carriers(Watts): 15.9

E39: Maximum Antenna Height Above Rooftop (meters):

E40: Total EIRP for All Carriers (dBW): 46.7

Antenna Gain Frequency Frequency Coord

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ANTENNA GAIN
Site Identifier: ESAA Network Antenna ID: BB45Ku

E41: Antenna Gain Transmit and/or Receive	34.6	dBi at E42:	14.25	GHz
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Control No. 3060-0678

FREQUENCY
Site Identifier: ESAA Network Antenna ID:BB45Ku

Form fields for E43: Frequency Lower (MHz) : 10950, E44: Frequency Upper (MHz) : 11200, E45: T/R Mode: R, E46: Polarization: Horizontal and Vertical, E47: Emission Designator: 30M0G7W, E48: Maximum EIRP per Carrier (dBW), E49: Maximum EIRP Density per Carrier (dBW), E50: Modulation and Services : BPSK,QPSK

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Reset Add Previous Validate Menu

FREQUENCY
Site Identifier: ESAA Network Antenna ID:BB45Ku

E43: Frequency Lower (MHz) :	<input type="text" value="11450"/>	E44: Frequency Upper (MHz) :	<input type="text" value="11700"/>
E45: T/R Mode: <input type="button" value="R"/> ▼		E46: Polarization: <input type="button" value="Horizontal and Vertical"/> ▼	
E47: Emission Designator:	<input type="text" value="30M0G7W"/>		
E48: Maximum EIRP per Carrier (dBW):	<input type="text"/>		
E49: Maximum EIRP Density per Carrier (dBW):	<input type="text"/>		
E50: Modulation and Services :	<input type="text" value="BPSK,QPSK"/>		

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FREQUENCY
Site Identifier: ESAA Network Antenna ID:BB45Ku

E43: Frequency Lower (MHz) :	<input type="text" value="11700"/>	E44: Frequency Upper (MHz) :	<input type="text" value="12200"/>
E45: T/R Mode: <input type="button" value="R"/> ▼		E46: Polarization: <input type="button" value="Horizontal and Vertical"/> ▼	
E47: Emission Designator:	<input type="text" value="30M0G7W"/>		

E48: Maximum EIRP per Carrier (dBW): E49: Maximum EIRP Density per Carrier (dBW): E50: Modulation and Services : **FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

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FREQUENCY**Site Identifier: ESAA Network Antenna ID:BB45Ku**

E43: Frequency Lower (MHz) :

E44: Frequency Upper (MHz) :

E45: T/R Mode: E46: Polarization:

E47: Emission Designator:

E48: Maximum EIRP per Carrier (dBW):

E49: Maximum EIRP Density per Carrier (dBW):

E50: Modulation and Services : **FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

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burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERF, 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 Perm@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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**SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)**

FOR OFFICIAL USE ONLY

4 copies of this form section exist.

Approved by OMB
Control No. 3060-0678

**FREQUENCY COORD
Site Identifier: ESAA Network Antenna ID: BB45Ku**

E51: Satellite Orbit Type:	<input type="text" value="Geostationary"/>
E52: Lower Frequency Limit (MHz) :	<input type="text" value="14000"/>
E53: Upper Frequency Limit (MHz) :	<input type="text" value="14500"/>
E54: Range of Satellite Arc Eastern Limit:	<input type="text" value="8.0"/> <input type="button" value="▼"/>
E55: Range of Satellite Arc Western Limit:	<input type="text" value="162.0"/> <input type="button" value="▼"/>
E56: Earth Station Azimuth Angle Eastern Limit:	<input type="text" value="90"/>
E57: Antenna Elevation Angle Eastern Limit:	<input type="text" value="5"/>
E58: Earth Station Azimuth Angle Western Limit:	<input type="text" value="270"/>
E59: Antenna Elevation Angle Western Limit:	<input type="text" value="5"/>
E60: Maximum EIRP Density toward the Horizon (dBW/4KHz):	<input type="text" value="3.2"/>

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FREQUENCY COORD
Site Identifier: ESAA Network Antenna ID: BB45Ku

E51: Satellite Orbit Type:	<input type="text" value="Geostationary"/>
E52: Lower Frequency Limit (MHz) :	<input type="text" value="11700"/>
E53: Upper Frequency Limit (MHz) :	<input type="text" value="12200"/>
E54: Range of Satellite Arc Eastern Limit:	<input type="text" value="8.0"/> <input type="button" value="▼"/>
E55: Range of Satellite Arc Western Limit:	<input type="text" value="162.0"/> <input type="button" value="▼"/>
E56: Earth Station Azimuth Angle Eastern Limit:	<input type="text" value="90"/>
E57: Antenna Elevation Angle Eastern Limit:	<input type="text" value="5"/>
E58: Earth Station Azimuth Angle Western Limit:	<input type="text" value="270"/>
E59: Antenna Elevation Angle Western Limit:	<input type="text" value="5"/>
E60: Maximum EIRP Density toward the Horizon (dBW/4KHz):	<input type="text" value="0.0"/>

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FREQUENCY COORD

Site Identifier: ESAA Network Antenna ID: BB45Ku

E51: Satellite Orbit Type:	Geostationary ▼
E52: Lower Frequency Limit (MHz) :	11450
E53: Upper Frequency Limit (MHz) :	11700
E54: Range of Satellite Arc Eastern Limit:	8.0 ▼
E55: Range of Satellite Arc Western Limit:	162.0 ▼
E56: Earth Station Azimuth Angle Eastern Limit:	90
E57: Antenna Elevation Angle Eastern Limit:	5
E58: Earth Station Azimuth Angle Western Limit:	270
E59: Antenna Elevation Angle Western Limit:	5
E60: Maximum EIRP Density toward the Horizon (dBW/4KHz):	0.0

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FREQUENCY COORD

Site Identifier: ESAA Network Antenna ID: BB45Ku

E51: Satellite Orbit Type:	Geostationary ▼
E52: Lower Frequency Limit (MHz) :	10950
E53: Upper Frequency Limit (MHz) :	11200

E54: Range of Satellite Arc Eastern Limit:	<input type="text" value="8.0"/>	<input type="button" value="▼"/>
E55: Range of Satellite Arc Western Limit:	<input type="text" value="162.0"/>	<input type="button" value="▼"/>
E56: Earth Station Azimuth Angle Eastern Limit:	<input type="text" value="90"/>	
E57: Antenna Elevation Angle Eastern Limit:	<input type="text" value="5"/>	
E58: Earth Station Azimuth Angle Western Limit:	<input type="text" value="270"/>	
E59: Antenna Elevation Angle Western Limit:	<input type="text" value="5"/>	
E60: Maximum EIRP Density toward the Horizon (dBW/4KHz):	<input type="text" value="0.0"/>	

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