Date & Time Filed: Jun 5 2006 3:29:04:393PM File Number: SES-MOD-INTR2006-01437

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MA	AIN FORM FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: E060078KA

Name: Datapath, Inc Phone Number: 678–597–0300 x611

DBA Fax Number: 678–597–0305

Name:

Street: 2450 Satellite Blvd E–Mail: mbeattie@datapath.com

City: Duluth State: GA

Country: USA **Zipcode:** 30096 –5801

Attention: Mr Michael J Beattie

9–16. Name of Contact Representative

Name: Mr Michael J Beattie Phone Number: 678–597–0300

Company: Datapath, Inc **Fax Number:** 678–597–0305

Street: 2450 Satellite Blvd E-Mail: mbeattie@datapath.com

City: Duluth State: GA

Country: USA **Zipcode:** 30096–5801

Attention: Mr Michael J Beattie **Relationship:** Same

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.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

 $\ \ \, \bigcirc \ \, (N/A)$ b3. Amendment to a Pending Application

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

b5. Assignment of License or Registration

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

(N/A) b10. Other (Please specify)

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 CGX – 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 application enter both fields, if this filing is a modification please enter only the file number:		
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:	
E060075		SESLIC2006030500351	

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	e 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	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
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 a	pplicable 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: 20000 Frequency Upper: 30000	(Please specify additional frequencies in an 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	
e. Geostationary Space Station	
f. Non–Geostationary Space Station	
g. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY:	
Transmit/Receive Transmit-Only Receive-Only N/A	
"For Space Station applications, select 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.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & p; countries)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

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.

O Yes O No

В

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?

O Yes O No O 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?

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 •	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	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.	• 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 exhinit, 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.		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, we 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.)

Modification to add three KA band antennas and related services to the existing licensed antenna at Duluth, Ga. The services and operational parameters for the existing antenna remain the same as was originally licensed.

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) 		
	46. Title of Person Signing Manager, Engineering	

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: E060078 E5. Call Sign: E060078 E2: Contact Name Michael Beattie E6. Phone 678-597-0611 Number: E3. Street: 2450 Satellite Blvd E7. City: Duluth E8. County: Gwennett E4. State GA E9. Zip Code 30096 E10. Area of Operation: **Duluth Earth Station** 33 °58 '22.6 "N E11. Latitude: E12. Longitude: 84 °5 '31.6 "W E13. Lat/Lon Coordinates are: NAD-27 **⋒** NAD-83 N/A E14. Site Elevation (AMSL): 281.5 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.

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	oposed antenna(s) comply with the antenna	O Yes	O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the loc point.	ation and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency co	ordination report as A	Yes	0	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	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.		O Yes	•	No
POINTS OF COMMUNICATION		ļ		
Satellite Name: AMC-16 AMC 16 85 W.L. If you selected OTHE	R, please enter the following:			
E21. Common Name:	1. Common Name: E22. ITU Name:			
3. Orbit Location: E24. Country:				
Satellite Name: OTHER OTHER If you selected OTHER, please of	enter the following:			

E21. Common Name: WGS GapFiller	E22. ITU Name:
E23. Orbit Location: 123	E24. Country: USA

Satellite Name: AMC-15 AMC-15 105 W.L.	If you 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:	
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 Gain Transmint and/or Recieve (dBi atGHz)
E060078	V2.4M	1	Vertex	SM-LT	2.4	52.3 dBi at 20
E060078	V2.4M	1	Vertex	SM-LT	2.4	55.2 dBi at 30
E060078	P2.4M	1	Prodelin	1244	2.4	52.3 dBi at 20
E060078	P2.4M	1	Prodelin	1244	2.4	55.2 dBi at 30
E060078	V3.9M	1	ViaSat	FMTV	3.9	56.3 dBi at 20

E060078	V3.9M	1	ViaSat	FMTV	3.9	58.9 dBi at 30	

E28. Antenna Id		E35. Above Ground Level (meters)	` ′	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
V2.4M	0.0/0.0	3.0	284.5	0.0	350.0	0.0	80.64
P2.4M	0.0/0.0	3.0	284.5	0.0	350.0	0.0	80.64
V3.9M	0.0/0.0	4.1	285.6	0.0	350.0	0.0	84.35

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
V2.4M	18600 18800	R	Left and Right Circular	100KG1W	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.)

Digital data, various information, various FEC, various data rates, various modulation

V2.4M	18600	R	Left and Right	39M9G1W	0.0	0.0
	18800		Circular			

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 da	ata, various in	formation, var	ious FEC, vari	ous data rates	s, various modu	lation
V2.4M	19700 20200	R	Left and Right Circular	100KG1W	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 da	ata, various in	formation, var	ious FEC, vari	ous data rates	s, various modu	lation
V2.4M	19700 20200	R	Left and Right Circular	39M9G1W	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 da	ata, various in	formation, var	ious FEC, vari	ous data rates	s, various modu	lation
V2.4M	28400 28600	Т	Left and Right Circular	100KG1W	54.63	40.65

E50. Modulation	and Services (If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its		
entirety.)								
Digital da	ta, various in	formation, var	ious FEC, vari	ous data rates	, various modu	lation		
V2.4M	28400 28600	Т	Left and Right Circular	39M9F1W	80.64	40.65		
E50. Modulation entirety.)	and Services (If th	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its		
Digital da	Digital data, various information, various FEC, various data rates, various modulation							
V2.4M	29500 30000	Т	Left and Right Circular	100KG1W	54.63	40.65		
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.) Digital data, various information, various FEC, various data rates, various modulation								
V2.4M	29500 30000	Т	Left and Right Circular	39M9G1W	80.64	40.65		

E50. Modulation	and Services (If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
entirety.)							
Digital da	ta, various in	formation, var	ious FEC, vari	ous data rates	, various modu	lation	
P2.4M	18600 18800	R	Left and Right Circular	100KG1W	0.0	0.0	
E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its	
Digital da	Digital data, various information, various FEC, various data rates, various modulation						
P2.4M	18600 18800	R	Left and Right Circular	39M9G1W	0.0	0.0	
E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its	
Digital data, various information, various FEC, various data rates, various modulation							
P2.4M	19700 20200	R	Left and Right Circular	100KG1W	0.0	0.0	

E50. Modulation	and Services (If the	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its		
entirety.)								
Digital da	ta, various in	formation, var	ious FEC, vari	ous data rates	, various modu	lation		
P2.4M	19700 20200	R	Left and Right Circular	39M9G1W	0.0	0.0		
E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its		
Digital da	Digital data, various information, various FEC, various data rates, various modulation							
P2.4M	28400 28600	Т	Left and Right Circular	100KG1W	54.63	40.65		
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.) Digital data, various information, various FEC, various data rates, various modulation								
P2.4M	28400 28600	Т	Left and Right Circular	39M9G1W	80.64	40.65		

E50. Modulation	and Services (If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
entirety.)							
Digital da	ta, various in	formation, var	ious FEC, vari	ous data rates	, various modu	lation	
P2.4M	29500 30000	Т	Left and Right Circular	100KG1W	54.63	40.65	
E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
Digital da	ta, various in	formation, var	ious FEC, vari	ous data rates	, various modu	lation	
P2.4M	29500 30000	Т	Left and Right Circular	39M9G1W	40.65	80.64	
E50. Modulation entirety.)					o the end of the form		
Digital data, various information, various FEC, various data rates, various modulation							
V3.9M	18600 18800	R	Left and Right Circular	100KG1W	0.0	0.0	

E50. Modulatio entirety.)	n and Services (If	the complete descript	ion does not appear i	n this box, please g	o to the end of the	he form to view it in its
Digital d	ata, various i	nformation, va	rious FEC, var	ious data rat	es, various	s modulation
V3.9M	18600 18800	R	Left and Right Circular	39M9G1W	0.0	0.0
E50. Modulatio entirety.)	n and Services (If	the complete descript	ion does not appear i	n this box, please g	o to the end of the	he form to view it in its
Digital d	ata, various i	nformation, va	rious FEC, var	ious data rat	es, various	s modulation
V3.9M	19700 20200	R	Left and Right Circular	100KG1W	0.0	0.0
E50. Modulatio entirety.)	n and Services (If	the complete descript	ion does not appear i	n this box, please g	o to the end of the	he form to view it in its
Digital d	ata, various i	nformation, va	rious FEC, var	ious data rat	es, various	s modulation
V3.9M	19700 20200	R	Left and Right Circular	39M9G1W	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 da	ata, various in	formation, var	ious FEC, vari	ous data rates	s, various modu	lation
V3.9M	28400 28600	Т	Left and Right Circular	100KG1W	58.33	44.35
E50. Modulation entirety.) Digital da	`				o the end of the form	
V3.9M	28400 28600	Т	Left and Right Circular	39M9G1W	84.35	44.35
E50. Modulation entirety.) Digital da	·				o the end of the form s, various modu	
V3.9M	29500 30000	Т	Left and Right Circular	100KG1W	58.33	44.35

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.)

Digital data, various information, various FEC, various data rates, various modulation

V3.9M	29500	т	Left and Right	39M9G1W	84.35	44.35
V 3.91VI		1	G: 1	391V19O1 W	04.33	44.33
	30000		Circular			

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.)

Digital data, various information, various FEC, various data rates, various modulation

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	Station Azimuth Angle	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)
V2.4M	Geostationary	18600 18800	85.0/123.0	181.6	50.5	235.3	32.9	0.0
	Geostationary	19700 20200	85.0/123.0	181.6	50.5	235.3	32.9	0.0

	Geostationary	28400 28600	85.0/123.0	181.5	50.0	235.3	32.9	-20.34
	Geostationary	29500 30000	85.0/123.0	181.6	50.5	235.3	32.9	-20.34
P2.4M	Geostationary	18600 18800	85.0/123.0	181.6	50.5	235.3	32.9	0.0
	Geostationary	19700 20200	85.0/123.0	181.6	50.5	235.3	32.9	0.0
	Geostationary	28400 28600	85.0/123.0	181.6	50.5	235.3	32.9	-20.34
	Geostationary	29500 30000	85.0/123.0	181.6	50.5	235.3	32.9	-20.34
V3.9M	Geostationary	18600 18800	85.0/123.0	181.6	50.5	235.3	32.9	0.0
	Geostationary	19700 20200	85.0/123.0	181.6	50.5	235.3	32.9	0.0
	Geostationary	28400 28600	85.0/123.0	181.6	50.5	235.3	32.9	-20.13
	Geostationary	29500 30000	85.0/123.0	181.6	50.5	235.3	32.9	-20.13

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	
E62. Street Address	

E63. City	E68. County	E67/68.	E64. Zip Code
		State/Country	
		/	

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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