



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION**

Name: DATA TECHNOLOGY SOLUTIONS LLC

Call Sign: E100084

Authorization Type: Modification of License

File Number: SES-MOD-20150227-00103

Non Common Carrier

Grant date: 05/26/2015

Expiration Date: 11/15/2025



Nature of Service: Fixed Satellite Service

Class of Station: Earth Stations on-board Vessels/VSAT

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	Oceans0.6M.	US Waterways, Gulf of Mexico, Atlantic Ocean, Pacific Ocean, Caribbean Sea Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.	0°0'0.0"N	0°0'0.0"W	0	83
2)	Oceans0.75M.	US Waterways, Gulf of Mexico, Atlantic Ocean, Pacific Ocean, Caribbean Sea Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				83
3)	Oceans1.0M.E	US Waterways, Gulf of Mexico, Atlantic Ocean, Pacific Ocean, Caribbean Sea, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
4)	Oceans1.5M.E	US Waterways, Gulf of Mexico, Atlantic Ocean, Pacific Ocean, Caribbean Sea, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
5)	VSAT FIXED0.84M	(0.84M.) VSAT CONUS, 250 UNITS, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
6)	VSAT FIXED0.96M	(0.96M.) VSAT CONUS, 250 UNITS, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA



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A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
7)	VSAT FIXED1.2	(1.2M.) VSAT CONUS, 250 UNITS,				NA
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning November 15, 2010 (3 AM Eastern Standard Time) and ending November 15, 2025 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is May 26, 2016 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000-14500.0000	H, V	1M60G7W	Tx	48.20	22.20	AVL 0.96M.		DIGITAL DATA
2)	14000.0000-14500.0000	H, V	400KG7W	Tx	43.10	23.10	AVL 0.96M.		DIGITAL DATA
3)	14000.0000-14500.0000	H, V	470KG7W	Tx	43.80	23.10	AVL 0.96M.		DIGITAL DATA
4)	14000.0000-14500.0000	H, V	500KG7W	Tx	44.00	23.10	AVL 0.96M.		DIGITAL DATA
5)	11700.0000-12200.0000	H, V	1M76G7W	Rx			AVL 0.96M.		DIGITAL DATA
6)	11700.0000-12200.0000	H, V	3M52G7W	Rx			AVL 0.96M.		DIGITAL DATA
7)	11700.0000-12200.0000	H, V	5M77G7W	Rx			AVL 0.96M.		DIGITAL DATA
8)	14000.0000-14500.0000	H, V	1M60G7W	Tx	47.28	21.28	SF840		DIGITAL DATA
9)	14000.0000-14500.0000	H, V	400KG7W	Rx	42.20	22.20	SF840		DIGITAL DATA
10)	14000.0000-14500.0000	H, V	470KG7W	Tx	42.90	22.20	SF840		DIGITAL DATA
11)	14000.0000-14500.0000	H, V	500KG7W	Tx	43.16	22.20	SF840		DIGITAL DATA



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B) Particulars of Operations

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The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
12)	11700.0000-12200.0000	H, V	1M76G7W	Rx			SF840		DIGITAL DATA
13)	11700.0000-12200.0000	H, V	3M52G7W	Rx			SF840		DIGITAL DATA
14)	11700.0000-12200.0000	H, V	5M77G7W	Rx			SF840		DIGITAL DATA
15)	14000.0000-14500.0000	H, V	1M60G7W	Tx	48.80	22.80	Seate14006		DIGITAL DATA
16)	14000.0000-14500.0000	H, V	400KG7W	Tx	45.50	25.50	Seate14006		DIGITAL DATA
17)	14000.0000-14500.0000	H, V	470KG7W	Tx	46.20	25.50	Seate14006		DIGITAL DATA
18)	14000.0000-14500.0000	H, V	500KG7W	Tx	46.60	25.50	Seate14006		DIGITAL DATA
19)	11700.0000-12200.0000	H, V	1M76G7W	Rx			Seate14006		DIGITAL DATA
20)	11700.0000-12200.0000	H, V	3M52G7W	Rx			Seate14006		DIGITAL DATA
21)	11700.0000-12200.0000	H, V	5M77G7W	Rx			Seate14006		DIGITAL DATA
22)	14000.0000-14500.0000	H, V	1M60G7W	Tx	50.50	24.50	Seate16009		DIGITAL DATA
23)	14000.0000-14500.0000	H, V	400KG7W	Tx	48.40	28.40	Seate16009		DIGITAL DATA
24)	14000.0000-14500.0000	H, V	470KG7W	Tx	49.10	28.40	Seate16009		DIGITAL DATA
25)	14000.0000-14500.0000	H, V	500KG7W	Tx	49.36	28.40	Seate16009		DIGITAL DATA
26)	11700.0000-12200.0000	H, V	1M76G7W	Rx			Seate16009		DIGITAL DATA
27)	11700.0000-12200.0000	H, V	3M52G7W	Rx			Seate16009		DIGITAL DATA
28)	11700.0000-12200.0000	H, V	5M77G7W	Rx			Seate16009		DIGITAL DATA
29)	14000.0000-14500.0000	H, V	1M60G7W	Tx	36.55	10.53	Seate160cm		Digital
30)	14000.0000-14500.0000	H, V	400KG7W	Tx	30.55	10.55	Seate160cm		Digital
31)	14000.0000-14500.0000	H, V	470KG7W	Tx	31.25	10.55	Seate160cm		Digital
32)	14000.0000-14500.0000	H, V	500KG7W	Tx	31.55	10.58	Seate160cm		Digital
33)	11700.0000-12200.0000	H, V	1M76G7W	Rx	0.00	0.00	Seate160cm		Digital
34)	11700.0000-12200.0000	H, V	3M52G7W	Rx	0.00	0.00	Seate160cm		Digital
35)	11700.0000-12200.0000	H, V	5M77G7W	Rx	0.00	0.00	Seate160cm		Digital



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The General Provision 1010 applies to all receiving frequency bands.
The General Provision 1900 applies to all transmitting frequency bands.
For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
36)	14000.0000-14500.0000	H,V	1M60G7W	Tx	38.56	12.54	Seate175cm		Digital
37)	14000.0000-14500.0000	H,V	400KG7W	Tx	32.51	12.51	Seate175cm		Digital
38)	14000.0000-14500.0000	H,V	470KG7W	Tx	33.26	12.56	Seate175cm		Digital
39)	14000.0000-14500.0000	H,V	500KG7W	Tx	33.50	12.53	Seate175cm		Digital
40)	11700.0000-12200.0000	H,V	1M76G7W	Rx	0.00	0.00	Seate175cm		Digital
41)	11700.0000-12200.0000	H,V	3M52G7W	Rx	0.00	0.00	Seate175cm		Digital
42)	11700.0000-12200.0000	H,V	5M77G7W	Rx	0.00	0.00	Seate175cm		Digital
43)	14000.0000-14500.0000	H,V	1M60G7W	Tx	49.98	23.98	WX1200		DIGITAL DATA
44)	14000.0000-14500.0000	H,V	400KG7W	Tx	49.00	29.00	WX1200		DIGITAL DATA
45)	14000.0000-14500.0000	H,V	470KG7W	Tx	49.70	29.00	WX1200		DIGITAL DATA
46)	14000.0000-14500.0000	H,V	500KG7W	Tx	49.96	29.00	WX1200		DIGITAL DATA
47)	11700.0000-12200.0000	H,V	1M76G7W	Rx			WX1200		DIGITAL DATA
48)	11700.0000-12200.0000	H,V	3M52G7W	Rx			WX1200		DIGITAL DATA
49)	11700.0000-12200.0000	H,V	5M77G7W	Rx			WX1200		DIGITAL DATA

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	14000.0000-14500.0000								Seate175cm
2)	11700.0000-12200.0000								Seate175cm
3)	14000.0000-14500.0000			05.0-05.0					AVL 0.96M.
4)	11700.0000-12200.0000			05.0-05.0					AVL 0.96M.
5)	14000.0000-14500.0000			05.0-05.0					WX1200
6)	11700.0000-12200.0000			05.0-05.0					WX1200
7)	14000.0000-14500.0000			05.0-05.0					SF840



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
8)	11700.0000-12200.0000			05.0	-05.0				SF840
9)	14000.0000-14500.0000			05.0	-05.0				Seatel4006
10)	11700.0000-12200.0000			05.0	-05.0				Seatel4006
11)	14000.0000-14500.0000								Seatel60cm
12)	11700.0000-12200.0000								Seatel60cm
13)	14000.0000-14500.0000			05.0	-05.0				Seatel6009
14)	11700.0000-12200.0000			05.0	-05.0				Seatel6009

D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) Oceans0.75M. to Permitted Space Station List
- 2) Oceans0.75M. to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
- 3) VSAT FIXED0.96M to Permitted Space Station List
- 4) VSAT FIXED0.96M to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
- 5) VSAT FIXED1.2 to Permitted Space Station List
- 6) VSAT FIXED1.2 to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
- 7) VSAT FIXED0.84M to Permitted Space Station List
- 8) VSAT FIXED0.84M to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
- 9) Oceans1.0M.ESV to Permitted Space Station List
- 10) Oceans1.0M.ESV to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
- 11) Oceans0.6M. to Permitted Space Station List
- 12) Oceans0.6M. to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
- 13) Oceans1.5M.ESV to Permitted Space Station List
- 14) Oceans1.5M.ESV to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)



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E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
VSAT FIXED0.96M	AVL 0.96M.	250	0.96	AVL	MVS960			
Max Gains(s):		41.2 dBi @	14.2500 GHz	39.7 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						48.20		
VSAT FIXED0.84M	SF840	250	0.84	WINEGARD	SF840			
Max Gains(s):		40.3 dBi @	14.2500 GHz	38.8 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						47.28		
Oceans1.0M.E	Seatel4006	250	1	SEATEL	4006			
Max Gains(s):		41.8 dBi @	14.0000 GHz	40.1 dBi @	11.7000 GHz			
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						48.80		
Oceans1.5M.E	Seatel6009	250	1.5	SEATEL	6009			
Max Gains(s):		43.5 dBi @	14.0000 GHz	42.5 dBi @	12.0000 GHz			
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						50.50		
Oceans0.6M.	Seatel160cm	250	0.6	Seatel	USAT 24	0	0 AGL/ 0 AMSL	
Max Gains(s):		35.3 dBi @	12.0000 GHz	36.9 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						43.84		
Oceans0.75M.	Seatel175cm	250	0.75	Seatel	USAT 30		0 AGL/ 0 AMSL	
Max Gains(s):		37.3 dBi @	12.0000 GHz	38.9 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						45.84		



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E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
VSAT FIXED1.	WX1200	250	1.2	WINEGARD	WX1200			
Max Gains(s):		43.0 dBi @	14.2500 GHz	41.5 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =				5.00				
Maximum aggregate output EIRP for all carriers (dBW) =				49.98				

F) Remote Control Point:

Oceans0.6M.	1305 Industrial Park Rd., (0.6M.) Mount Jackson, Shanandoah, VA 22842 (301) 258-3776	Call Sign: KA399
Oceans0.75M.	1305 Industrial Park Rd., (0.75M.) Mount Jackson, Shanandoah, VA 22842 (301) 258-3776	Call Sign: KA399
Oceans1.0M.ES	1305 Industrial Park Rd., (1.0M.) ESV Mount Jackson, Shanandoah, VA 22842 (301) 258-3776	Call Sign: KA399
Oceans1.5M.ES	1305 Industrial Park Rd., (1.5M.) ESV Mount Jackson, Shanandoah, VA 22842 (301) 258-3776	Call Sign: KA399
VSAT FIXED0.84M	1305 Industrial Park Rd., (0.84M.) VSAT Mount Jackson, Shanandoah, VA 22842 (301) 258-3776	Call Sign: KA399
VSAT FIXED0.96M	1305 Industrial Park Rd., (0.96M.) VSAT Mount Jackson, Shanandoah, VA 22842 (301) 258-3776	Call Sign: KA399



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F) Remote Control Point:

VSAT 1305 Industrial Park Rd., (1.2M.) VSAT
FIXED1.2
Mount Jackson, Shanandoah, VA 22842
(301) 258-3776

Call Sign: KA399

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

105 --- Subject to Rule Making: This license is subject to the outcome of any future rule making concerning ESV operations. Grant of this authorization shall not prejudice the outcome of any rulemaking.

167 --- This authorization is limited to the total number of terminals listed in Section A of this license for this Site ID.

1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.

1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.

2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.

2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).



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H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 2938 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: (1) name of the licensee, (2) file number of the application, (3) call sign of the antenna, (4) date of the license, (5) certification that the facility as authorized has been completed, (6) certification that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209, and (7) certification that the station is operational (including the date of commencement of service) and will remain operational during the license period unless the license is submitted for cancellation.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 5216 --- All operations shall be on a non-common carrier basis.
- 90013 --- The licensee shall not operate in the band 14.0-14.2 GHz within 125 km of the NASA TDRSS facilities on Guam (located at latitude 13°36'55" N, longitude 144°51'22" E) or White Sands, New Mexico (located at latitude 32°20'59" N, longitude 106°36'31" W and latitude 32°32'40" N, longitude 106°36'48" W), or any future TDRSS facility NTIA notifies to the FCC, unless and until the licensee enters into an agreement with NASA that NTIA has approved. The licensee must conform its operations to the terms of any coordination agreement with the NASA and must file a copy of the agreement with the Commission within 30 days of execution.
- 90014 --- The licensee shall not operate in the band 14.47-14.50 GHz within (a) 45 km of the radio observatory on St. Croix, Virgin Islands (located at latitude 17°46' N, longitude 64°35' W); (b) 125 km of the radio observatory on Mauna Kea, Hawaii (located at latitude 19°48' N, longitude 155°28' W); and (c) 90 km of the Arecibo Observatory on Puerto Rico (located at latitude 18°20'46" W, longitude 66°45'11" N) unless and until the licensee enters into an agreement with the National Science Foundation that has been approved by NTIA. The licensee must conform its operations to the terms of any coordination agreement with the National Science Foundation and must file a copy of the agreement with the Commission within 30 days of execution.



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.

