



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

Name: ViaSat, Inc.
Authorization Type: License
Non Common Carrier

Call Sign: E180006
File Number: SES-LIC-20180123-00055
Grant date: 04/17/2018 Expiration Date: 04/17/2033



Nature of Service: Earth Station Aboard Aircraft
Nature of Service: Fixed Satellite Service
Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	GM40	ESAA's (.397 METER, 4000 UNITS) CONUS, HI, PR,				NA	
		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.					
2)	M40	ESAA's (.397 METER, 4000 UNITS) CONUS, HI, PR,				NA	
		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.					

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 April 17, 2018 (3 AM Eastern Standard Time) and ending April 17, 2033 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is April 17, 2019 (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)	29500.0000-30000.0000	L,R	160MG7D	Tx	55.50	9.50	GM40		160 MBd PSK, Digital Carrier
2)	29500.0000-30000.0000	L,R	320MG7D	Tx	55.50	6.50	GM40		320 MBd PSK, Digital Carrier
3)	29500.0000-30000.0000	L,R	80M0G7D	Tx	55.50	12.50	GM40		80 MBd PSK, Digital Carrier



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4)	28350.0000-28600.0000	L,R	160MG7D	Tx	55.50	9.50	GM40		160 MBd PSK, Digital Carrier
5)	28350.0000-28600.0000	L,R	320MG7D	Tx	55.50	6.50	GM40		320 MBd PSK, Digital Carrier
6)	28350.0000-28600.0000	L,R	80M0G7D	Tx	55.50	12.50	GM40		80 MBd PSK, Digital Carrier
7)	19700.0000-20200.0000	L,R	417MG7D	Rx			GM40		Modulation and Services 416.6 MBd M-ary PSK Digital Data
8)	18300.0000-18800.0000	L,R	417MG7D	Rx			GM40		Modulation and Services 416.6 MBd M-ary PSK Digital Data
9)	17700.0000-18100.0000	L,R	500MG7D	Rx			GM40		Modulation and Services 500 MBd M-ary PSK Digital Data
10)	29500.0000-30000.0000	L,R	10M0G7D	Tx	43.50	9.50	M40		10.0 MBd PSK, Digital Carrier
11)	29500.0000-30000.0000	L,R	20M0G7D	Tx	43.50	6.50	M40		20.0 MBd PSK, Digital Carrier
12)	29500.0000-30000.0000	L,R	5M00G7D	Tx	43.50	12.50	M40		5.0 MBd PSK, Digital Carrier
13)	28350.0000-28600.0000	L,R	10M0G7D	Tx	43.50	9.50	M40		10.0 MBd PSK, Digital Carrier
14)	28350.0000-28600.0000	L,R	20M0G7D	Tx	43.50	6.50	M40		20.0 MBd PSK, Digital Carrier
15)	28350.0000-28600.0000	L,R	5M00G7D	Tx	43.50	12.50	M40		5.0 MBd PSK, Digital Carrier
16)	19700.0000-20200.0000	L,R	417MG7D	Rx			M40		Modulation and Services 416.6 MBd M-ary PSK Digital Data
17)	18300.0000-18800.0000	L,R	417MG7D	Rx			M40		Modulation and Services 416.6 MBd M-ary PSK Digital Data
18)	17700.0000-18100.0000	L,R	500MG7D	Rx			M40		Modulation and Services 500 MBd M-ary PSK Digital Data



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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		
1)	28350.0000-28600.0000	69.9W	69.9W	06.0	08.0	254.0	111.0	-4.5	M40
2)	29500.0000-30000.0000	69.9W	69.9W	06.0	08.0	254.0	111.0	-4.5	M40
3)	17700.0000-18800.0000	69.9W	69.9W	06.0	08.0	254.0	111.0		M40
4)	19700.0000-20200.0000	69.9W	69.9W	06.0	08.0	254.0	111.0		M40
5)	17700.0000-18800.0000	69.9W	69.9W	06.0	08.0	254.0	111.0		GM40
6)	19700.0000-20200.0000	69.9W	69.9W	06.0	08.0	254.0	111.0		GM40
7)	28350.0000-28600.0000	69.9W	69.9W	06.0	08.0	254.0	111.0	-4.5	GM40
8)	29500.0000-30000.0000	69.9W	69.9W	06.0	08.0	254.0	111.0	-4.5	GM40

D) Points of Communications

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

- 1) M40 to VIASAT-2 (S2902) @ 69.90 W.L. (U.K.-licensed)
- 2) GM40 to VIASAT-2 (S2902) @ 69.90 W.L. (U.K.-licensed)

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)
GM40	GM40	4000	0.397	Viasat, Inc.	GM-40		0 AGL/ 0 AMSL	
Max Gains(s):		40.5 dBi @ 29.0000 GHz	36.8 dBi @ 20.2000 GHz	36.6 dBi @ 19.7000 GHz	40.1 dBi @ 28.3500 GHz			
Maximum total input power at antenna flange (Watts) =				31.60				
Maximum aggregate output EIRP for all carriers (dBW) =				55.50				
M40	M40	4000	0.397	Viasat, Inc.	M-40		0 AGL/ 0 AMSL	
Max Gains(s):		37.0 dBi @ 28.3500 GHz	37.5 dBi @ 30.0000 GHz	34.0 dBi @ 20.2000 GHz	33.3 dBi @ 18.3000 GHz			
Maximum total input power at antenna flange (Watts) =				4.00				
Maximum aggregate output EIRP for all carriers (dBW) =				43.50				



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F) Remote Control Point:

GM40	349 Inverness Drive South Englewood, Arapahoe, CO 80112 720-493-7300	Call Sign:
M40	349 Inverness Drive South Englewood, Arapahoe, CO 80112 720-493-7300	Call Sign:

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:

- 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (IBFS) in the "Other Filings" tab within 10 days of the change.
- 90067 --- Operation in the territory or airspace of any country other than the United States must be in compliance with the applicable laws, regulations, and licensing procedures of that country, as well as with the conditions of this authorization.
- 90075 --- Licensee is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.
- 90079 --- Antenna elevation for all operations must be at least 5 degrees above the geographic horizon while the aircraft is on the ground.
- 90081 --- All operations shall be on a non-common carrier basis.
- 90095 --- The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.
- 90098 --- ViaSat Inc. is granted a waiver of the Table of Frequency Allocations, Section 2.106 of the Commission's rules, and a waiver of the Ka-band Band Plan, see Rulemaking to Amend Parts 1, 2, 21, and 25 of the Commission's Rules to Redesignate the 27.5-29.5 GHz Frequency Band to Reallocate the 29.5-30.0 GHz Frequency Band, to Establish Rules and Policies for Local Multipoint Distribution Services and for Fixed Satellite Services, First Report and Order and Fourth Notice of Proposed Rulemaking, 11 FCC Rcd 19005 (1996). ViaSat Inc. is authorized to operate in the 18.3-19.3 GHz, 19.7-20.2 GHz, 28.35-29.1 GHz, and 29.5-30.0 GHz frequency bands on a non-harmful interference basis. ViaSat Inc. must not cause harmful interference to any authorized radio station operating in conformance with the U.S. Table of Frequency Allocations.



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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:

- 90101 --- In the 17.8-20.2 GHz frequency range, in order to protect Federal satellite services, the licensee shall communicate only with satellites whose operator has completed an agreement with Federal operators pursuant to footnote US334 of the U.S. Table of Frequency Allocations, 47 C.F.R. § 2.106, and that agreement has been approved by both the Federal Communications Commission and the National Telecommunications and Information Administration. The licensee's operations pursuant to this authorization shall be consistent with such US334 agreements.
- 90116 --- The licensee must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. The licensee shall have available, at all times, the technical personnel necessary to perform supervision of remote station operations.
- 90122 --- The earth stations in this blanket license are operated by remote control. The remote control point is a material term of the license and may not be changed without prior authorization under Section 25.117 of the Commission's rules. Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points," DA 06-978 (rel. May 4, 2006).
- 90123 --- Operations authorized pursuant to this license are operations by U.S.-registered aircraft anywhere within the coverage area/frequency bands identified in the application for the satellites listed as points of communication. Operations authorized pursuant to this license also include operations by non-U.S.-registered aircraft within U.S. territory, including territorial waters. Authorization for operations by U.S.-registered aircraft outside U.S. territory, pursuant to this license, does not constitute a grant of access to the market in the United States under the Commission's DISCO II policies.
- 90211 --- The antenna performance specifications do not comply with Sections 25.138(a) and 25.209 of the FCC Rules. The operation of these antennas will not be protected from harmful interference caused by other geostationary satellite networks to the extent that harmful interference would not be expected to be caused to an antenna that is compliant with the antenna performance standards of Section 25.209.
- 90245 --- When the ESAA network is put into operation, the licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the network was put into operation and will remain operational during the license period unless the license is submitted for cancellation.
- 90246 --- ESAs authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
- 90247 --- ESAs authorized herein must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each ESAA to determine if it is malfunctioning, and each ESAA must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed-satellite service network.
- 90248 --- Stations authorized herein must not be used to provide air traffic control communications.



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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:

90253 --- When operating in airspace within line-of-sight of the territory of a foreign administration where Fixed Service networks have an allocation in the 28.35- 29.1 GHz or 29.5-30.0 GHz frequency bands, the ESAAs must not exceed the following EIRP limits:

+64 dBW in any 1 MHz band if Theta is less than or equal to 0°

+64 + 3*Theta dBW in any 1 MHz band if Theta is greater than 0° but less than or equal to 5°

where Theta is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

90254 --- ESAAs authorized previously (SES-LIC-20120427-00404) must cease transmissions when the antenna-to-GSO skew angle for antenna ID "1", Model M40, exceeds 60° and the off-axis EIRP spectral density emissions risk harmful interference to a GSO space station. The ESAA may resume transmissions once the risk of harmful interference has passed.

90256 --- Operation of ESAAs authorized herein are subject to any requirements the Commission may adopt in any future proceeding concerning operations in the 18.3-19.3 GHz, 19.7-20.2 GHz, 28.35-29.1 GHz, and 29.5-30.0 GHz band frequencies including, but not limited to, ESAAs communicating with geostationary orbit space stations.

90257 --- ESAAs authorized herein must be in compliance with the terms of coordination agreements with operators of non-geostationary orbit Fixed Satellite Service space stations operating in the 18.8-19.3 and 28.6-29.1 GHz frequency band. In the event another NGSO FSS system commences operation in the 18.8-19.3 and 28.6-29.1 GHz frequency bands, ESAAs operating pursuant to this authorization must cease operation unless and until such operation has been coordinated with the new NGSO system operator or the ESAA licensee demonstrates that such operation will not cause harmful interference to the new NGSO system.

90258 --- The licensee must maintain records of the following data for each operating ESAA: location (latitude, longitude, altitude); aircraft attitude (pitch, yaw, roll); transmit frequency and occupied bandwidth; data rate; EIRP; and target satellite. This data must be recorded at intervals of no more than one minute while an ESAA is transmitting and every 30 seconds when aircraft roll angle is greater than 10 degrees. The licensee must also record instances when ESAA pointing error exceeds 0.2 degrees. The licensee must make this data available upon request to a fixed-satellite service system operator or the Commission within 24 hours after receiving the request.

90259 --- For purposes of this authorization, the term earth stations aboard aircraft, or ESAA, is used to refer to any earth station on aircraft communicating with Fixed-Satellite Service (FSS) geostationary-orbit (GSO) space stations, without reference to the technical and licensing rules specifically adopted for earth stations on aircraft in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz, and 14.0-14.5 GHz frequency bands. See 47 C.F.R. § 25.227; Revisions to Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary-Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.34-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands, IB Docket No. 12-376, Notice of Proposed Rulemaking and Report and Order, FCC 12-161, 27 FCC Rcd 16510 (2012); Revisions of Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary-Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands, IB Docket No. 12-376, Second Report and Order on Reconsideration, FCC 14-45, 29 FCC Rcd 4226 (2014). Nothing in this authorization extends those technical and licensing rules to earth stations on aircraft not operating in those specified frequency bands.



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

- 90333 --- The Commission has not adopted technical rules governing ESAA operations in the 28.1-28.35 GHz frequency band, which is allocated to LMDS on a primary basis. We grant waivers of the U.S. Table of Frequency Allocations, the Commission's Ka-band plan, and footnote 2 to the table in 47 C.F.R. § 25.202 to authorize the operation of ESAA Antenna IDs M32 and M40 in this frequency band. Operations of ESAA Antenna IDs M32 and M40 in the 28.1-28.35 GHz frequency band are secondary to fixed and mobile operations and must be conducted on a non-interference basis and must cease in the event of harmful interference. Operations of ESAAs in the 28.1-28.35 GHz frequency band are subject to any future decisions the Commission may take about operations in this band. Waiver is based on the public interest in providing broadband services to passengers aboard aircraft. Because the waiver is conditioned on operations on an unprotected and non-interference basis solely at altitudes above 10,000 feet of mean sea level, the underlying purpose of the rules in protecting primary terrestrial spectrum users from interference is not undermined by grant of this waiver.
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 90462 --- The ESAAs are authorized, on a non-protected and non-harmful interference basis, to transmit to the following geostationary-orbit space station: VIASAT-2 (Call Sign S2902) at 69.9° W.L. using the 28.35-28.6 GHz and 29.5-30.0 GHz frequency bands. The ESAAs authorized herein must immediately terminate operations upon notification that such operation is causing harmful interference to any other radio system lawfully operating in the 28.35-28.6 GHz and 29.5-30.0 GHz frequency bands. The ESAAs authorized herein cannot claim protection from harmful interference from any radio system lawfully operating in the 28.35-28.6 GHz and 29.5-30.0 GHz frequency bands.
- 90463 --- The ESAAs are authorized, on a non-protected and non-harmful interference basis, to receive downlink transmissions from the following geostationary-orbit space station: VIASAT-2 (Call Sign S2902) at 69.9° W.L. in the 17.7-18.1 GHz, 18.3-18.6 GHz, and 19.7-20.2 GHz. The ESAAs operations authorized herein must accept interference from any radio system lawfully operating in the 17.7-18.1 GHz, 18.3-18.6 GHz, and 19.7-20.2 GHz frequency bands.
- 90464 --- Operations pursuant to this authorization must be in compliance with the terms of the coordination agreements with operators of Ka-band geostationary space stations within thirty angular degrees of the target satellite VIASAT-2. In the event another GSO space station commences operation in the 28.35-28.6 GHz and 29.5-30.0 GHz frequency bands at a location within thirty degrees of any of the target satellites, ESAAs operating pursuant to this authorization must cease transmitting to the target satellite(s) unless and until such operation has been coordinated with the new space station's operator or ViaSat Inc. demonstrates that such operation will not cause harmful interference to the new co-frequency space station.



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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:

90465 --- ESAA's antenna ID "GM40", model GM40, must cease transmissions when the antenna-to-GSO skew angle exceeds 60° and the off-axis EIRP spectral density emissions risk harmful interference to a GSO space station. The ESAA may resume transmissions once the risk of harmful interference has passed.

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.