



Application for the Issue or Amendment of a VSAT Licence (14 to 14.25 GHz)

Before completing this form please read Guidance Notes on pages 8-11.

Please complete this form in BLOCK CAPITALS in dark ink or typescript.

Important: A Telecommunications Act licence may also be required, please see (Guidance Notes, page 8).

Please note the technical information contained in this application form will be used in the co-ordination procedure with other users of the radio spectrum.

Please keep a copy of the completed application form.

SECTION A APPLICANT DETAILS

For Amendments please quote your licence number

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Please give the full name of the Company or Authority to which the licence is to be issued.

Applicant's address

Postcode

Address for correspondence
(if different from above)

Postcode

On which date will VSAT operations start?

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day

month

year

and on which date (if known) will operations end?

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day

month

year



SECTION D

VSAT STATION DETAILS

Network type (please indicate)

Star Mesh

On which date will VSAT operations start?

Day Month Year

Name of the VSAT network?

Equipment designation

Address of VSAT Earth Station

(geographical area if an address cannot be given)

Site ID number

Postcode

National grid reference (Preferred)

Minimum two letters and ten figures

Geographical co-ordinates

Longitude Degrees E/W Min Sec

Latitude

Operating angles

Degrees Azimuth Elevation

Associated Space Station name

Nominal orbital longitude

(if geostationary)

Degrees E/W

Heights are also required if (see note 1)

EIRP dBW

Measured in metres amsl

Base of the antenna system	<input type="text"/>
Top of the antenna system	<input type="text"/>
Ground	<input type="text"/>
Centre of the antenna	<input type="text"/>

Note 1

*EIRP is above 45dBi or further co-ordination required.
(This may be due to close proximity to exclusion zones.)
(This notification will come from the Agency.)*

If the Agency needs to obtain any further information about this application who may they contact?

Technical Name _____

Telephone Number: _____

Fax Number: _____

Administrative Name _____

Telephone Number: _____

Fax Number: _____

Would you like to have your organisation added to the list of Operators Licensed to operate satellite services in the UK?

YES/NO

The list may be made available to interested parties on request.

The information on this application form is being collected on the authority of the Secretary of State for Trade and Industry. The point of contact is the Enquiry Point at the:

Radiocommunications Agency
Wyndham House
189 Marsh Wall
London E14 9SX
Tel:020 7211 0300

The information given on this form is to be processed for the purpose of approving this application and issuing a VSAT licence.

DECLARATION - To be signed by all Applicants

I certify that I have read the associated memorandum on safety precautions relating to intense radio frequency radiation.

I declare that the information on this form, and any other information given in support of this application, is correct and complete to the best of my knowledge and belief.

Signed _____

Status _____

(For example: Chairman, Managing Director, Company Secretary)

Name (BLOCK LETTERS) _____

Date _____

Checklist

Have you

- completed all sections of the form applicable to you?
- attached and listed diagrams required?
- signed the declaration?
- made a copy for reference?

Where to Return Your Form

Please return the completed form and attachments to:

RA2/FTSLU
Radiocommunications Agency
Wyndham House
189 Marsh Wall
London E14 9SX

Guidance Notes for the Licensing of a VSAT network in the Fixed Satellite Service

General

These notes and application form relate to the issue of a Wireless Telegraphy Act 1949 (as amended 1998) licence. A Telecommunications Act licence may also be required. The T Act Satellite Services Class Licence places certain restrictions on interconnection with the public network. Further advice can be obtained by writing to:

Department of Trade and Industry,
Communications and Information Industries
Directorate,
151 Buckingham Palace Road,
London SW1W 9SS

Notes on completing the Form RA363

In the case of a private firm which is not a Limited Company, the full name of each partner or sole trader should be given.

The processing of the application may be delayed if any of the details given on the Form are not complete or correct.

Any amendment to your licence requires the prior consent of the Secretary of State. If you are applying for an **amendment** to your current licence, you need to complete all questions. If you are applying for the addition of equipment types or additional locations then you only need to complete Section A and the declaration on page 7 plus Sections C and D as appropriate.

Section B

Name of the VSAT network	Indicate the name by which the VSAT Network will be known.
Associated Space Station	Indicate the name of the associated space station with which communication is to be established.
Nominal Orbital Longitude	Enter the nominal longitude of the orbital position of that of the satellite expressed in decimal degrees E or W (the value should not exceed 180 Degrees).

Section C

	A separate section C is required for each terminal that has different characteristics.
Equipment Designation	Enter the designator by which this VSAT terminal configuration will be known on this network. The designator will be used when registering the location of a terminal using Section D of this form.
Type of Antenna	ie Cassegrain/Gregorian etc.
Maximum Isotropic Gain	Enter the gain (Gi: see RR S1.160 a) of the antenna in the direction of maximum radiation, expressed in dBi.
Beamwidth	Enter the total beamwidth at the mean half-power points of the main lobe, expressed in decimal degrees. Describe in detail in attachment if not symmetrical.
Radiation Pattern	If a reference radiation pattern cannot be indicated by one of the symbols below, or the measured radiation diagram of the antenna is available, give the relevant information in an attachment. If an attachment is provided, enter a Figure number identifying its presence.

Section C continued

Indicate the reference radiation pattern, preferably by means of the following symbols or similar symbols not exceeding 12 characters.

Symbol	Description of the Radiation Pattern
REC-465	Current version of ITU-R Recommendation 465: "Reference earth station radiation pattern for use in coordination and interference assessment in frequency range from 2 to about 30 GHz."
REC-580	Current version of ITU-R Recommendation 580: "Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellites."
AP28	Point 4, Annex II of Appendix 28. Note: This radiation diagram is identical to that in Annex III to Appendix 29.
29-25LOG(FI)	Represents a reference radiation pattern similar to that in ITU-R Rec.465 with side lobe radiation reduced by 3dB.
27-25LOG(FI)	As above with side lobe radiation reduced by 5dB.

Designation of Emission

Is made up of three parts, Bandwidth (four characters), Emission (three characters) and Description of Emission (two characters). This makes a nine character emission code. See Guide to Class of Emissions RA97

eg. 30M0F8FHN is **30M0** = 30 MHz, **F** = Frequency modulated, **8** = Composite system with one or more channels containing analogue information, **F** = Television (video), **H** = Sound of broadcasting quality (stereophonic or quadraphonic), **N** = No multiplexing employed.

Antenna I/P Power

Enter the appropriate sign (+ or -) and the value of the total peak envelope power (RRS1.157) expressed in dBW for the corresponding emission.

Maximum Power Density

Enter the appropriate sign (+ or -) followed by the value of the maximum power density per Hertz (expressed in dBW/Hz) supplied to the input of the antenna averaged over the worst 4 kHz band. For narrow band carriers with a necessary bandwidth RR SI.152 less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz) to obtain this value of maximum power density. The most recent version of Rec ITU-RSF 675-3 should be used to the extent applicable in calculating the maximum power density per Hz.

Section C *continued*

Receiving System Noise Temperature (ITU CR65 refers)	Enter the value of the lowest total receiving system noise temperature expressed in Kelvins, referred to the output of the earth station antenna under clear sky conditions.
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Section D

A separate Section D is required for each location at which a VSAT terminal is installed.

Section E

All emissions are to be contained in the frequency band 14.00 to 14.25GHz.

Satellite Receiving Beam Designation	<p>Enter the receiving beam designation by a symbol consisting of up to three characters. For practical reasons, there are different approaches for the designation of the beam, it may consist of:</p> <p>(a) numbers such as 1,2,3, etc., which refer to the number of the figure representing the corresponding antenna gain contour published in the relevant Special Section; or</p> <p>(b) numbers such as 195, which identify a beam having a maximum gain of 19.5dB; or</p> <p>(c) a symbol of up to three letters (or a letter and a figure), which is used to represent the abbreviated beam name, such as G for global, NWQ for North West Quadrant, WH for West Hemisphere, Z1 for Zone 1, O for Omnidirectional.</p> <p>For steerable beams, the last character shall always be the letter "R".</p>
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Assigned Frequency Band	Enter the bandwidth of the assigned frequency band as defined in RR.S1.147, expressed in kHz. the assigned frequency band should in no case exceed the bandwidth of a single associated satellite transponder.
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Designation of Emission	<p>Is made up of three parts, Bandwidth (four characters), Emission (three characters) & Description of Emission (two characters). This makes a nine character emission code. See Guide to Class of Emissions RA97.</p> <p>eg. 30M0F8FHN is 30M0 = 30 MHz, F = Frequency modulated, 8 = Composite system with one or more channels containing analogue information, F = Television (video), H = Sound of broadcasting quality (stereophonic or quadraphonic), N = No multiplexing employed.</p>
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Section F

Satellite Transmitting Beam Designation

Enter the transmitting beam designation by a symbol consisting of up to three characters. For practical reasons, there are different approaches for the designation of the beam, it may consist of:

(a) number such as 1,2,3, etc., which refer to the number of the figure representing the corresponding antenna gain contour published in the relevant Special Section; or

(b) number such as 195, which identify a beam having a maximum gain of 19.5dB; or

(c) a symbol of up to three letters (or a letter and a figure), which is used to represent the abbreviated beam name, such as G for global, NWO for North West Quadrant, WH for West Hemisphere, Z1 for Zone 1, O for Omnidirectional.

For steerable beams, the last character shall always be the letter "R".

Assigned Frequency Band

Enter the bandwidth of the assigned frequency band as defined in RR.S1.147, expressed in kHz. the assigned frequency band should in no case exceed the bandwidth of a single associated satellite transponder.

Designation of Emission

Is made up of three parts, Bandwidth (four characters), Emission (three characters) & Description of Emission (two characters). This makes a nine character emission code. See Guide to Class of Emissions RA97.

eg. 30MOF8FHN is **30MO** = 30 MHz, **F** = Frequency modulated, **8** = Composite system with one or more channels containing analogue information, **F** = Television (video), **H** = Sound of broadcasting quality (stereophonic or quadraphonic), **N** = No multiplexing employed.

Radiation Hazard

Applicants are advised to obtain information concerning safety precautions relating to intense radio frequency radiation from the local Area Office of HM Factory Inspectorate. The address and telephone number may be found under "Health and Safety Executive" in the telephone directory.

Enquiries

If you have any queries in completing the application form or require further information please contact:

RA2/FTSLU

Radiocommunications Agency

Wyndham House

189 Marsh Wall

London E14 9SX

Tel: 020 7211 0300

Fax: 020 7211 0112

Website: www.radio.gov.uk

