

1.1 Company Name:-

INFORMATION AND COMMUNICATION TECHNOLOGIES AUTHORITY (ICTA)

Level 12, The Celicourt 6, Sir Celicourt Antelme Street Port Louis Mauritius Tel.: (230) 211 5333/4 Fax: (230) 211 9444 email: icta@intnet.mu

APPLICATION FORM FOR AN EARTH STATION (IN A FIXED SATELLITE SERVICE) LICENCE (RA 16)/ VSAT/USAT (C, Ku, Ka band operation) LICENCE (RA 44)

Please complete in BLOCK letters.

Application made on behalf of a body corporate should be signed by a person duly authorised by the body corporate.

Payment by cheque should be made to the order of the Information and Communication Technologies Authority.

INFORMATION

You are kindly informed that the determination of this application by the ICT Authority is subject to successful coordination as per the provisions of Article 9 of the ITU Radio Regulations. Kindly note that the maximum duration for the coordination procedure is four months.

SECTION 1: PARTICULARS OF APPLICANT

1.2. Trading Name:-

(or partnership, sole trader, individual)	
1.3. (a) Registered address	(b) Business address (for correspondence)
1.4 Dataila of contest names for official con-	
1.4 Details of contact person for official comr (a) Name:-	munication (d) Mobile No.:-
(b) Designation:-	(e) Fax No.:-
(c) Day time Tel. No.:-	(f) Email:-
(e) Day time 101.110	(I) Diluii.
SECTION 2: LIC	CENCE AND SERVICE DETAILS
	in and tick the boxes as appropriate ou are setting up an Earth Station/VSAT/USAT
	in and tick the boxes as appropriate ou are setting up an Earth Station/VSAT/USAT
2.1 Please specify the purpose for which yo	ou are setting up an Earth Station/VSAT/USAT
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2.1 Please specify the purpose for which you 2.2 Please specify whether you are setting a □ NO □ YES (If in the affirmative	ou are setting up an Earth Station/VSAT/USAT In Earth Station/VSAT/USAT under any particular licence. It is please quote the type and licence number) Eatton
2.1 Please specify the purpose for which you are setting at I NO YES (If in the affirmative 2.3 Type of licence under this present application).	ou are setting up an Earth Station/VSAT/USAT In Earth Station/VSAT/USAT under any particular licence. It is please quote the type and licence number) Eatton

2.4 Ty	pe of Satellite Service	_
[☐ VSAT 1-way services	☐ Point-to-point services
[☐ VSAT 2-way services	☐ Point to multipoint services
[☐ Satellite News Gathering (SNG) Services	
[☐ Other (please specify and supplement with approp	riate documentations)
2.5 De	scription of transmission	
[☐ Data	☐ Audio
[☐ Video	☐ Voice
[Other (please specify)	
	pe of use —	
[☐ Own use	
[\Box 3 rd party use (please provide the details about the s	ervices and attach a copy of (1) company
	registration, (2) shareholding structure & (3) busing	ness plan)
[☐ Connection to another telecommunications networ	k
	☐ NO ☐ YES (please provide details)	
	SECTION 3: TYPE AP	PPOVAI
	SECTION 3. THE AI	IROVAL
	dicate whether any radiocommunication and telecommunication are telecommunication and telecommunication are telecommunication and telecommunication are telecommunication and telecommunication and telecommunication and telecommunication are telecommunication and telecommunication and telecommunication are telecommunication and telecommunication are te	
	Yes (Please attach copy of type approval certificate	issued by ICT Authority)
	No	
In case th	ne answer is No, please submit the following informat	ion together with your request for type approval:
1. 4	A copy of the equipment brochure detailing all technic	al specifications
2.	The type approval certificates obtained in the country	of origin, if available.
3.	Test reports or Certificates of compliance with interna-	tional standards issued by accredited
i	ndependent test houses and laboratories having tested	or type approved the equipment.
4. (Certificates of compliance with international standards	issued by the manufacturer (optional)

SI	ECTIO	N 4: E	ARTH	STATI	ON /VSAT	'/USA'	T DET.	AILS		
Name of Earth Station/VS.	AT/US	AT								
Address of Earth Station/V	/SAT/U	SAT								
Longitude Latitude										
	Degrees E/W Min Sec			Degrees		Min	Sec			
Geographical coordinates:										
		Azi	muth		Eleva	ntion				
	From (De		To (Degrees)		(Degr					
Operating Angles:						*				
EIRP dBW	7									
		1 1	г.	N						
Horizontal Elevation diagr	am atta	enea, s	see Figu	ire No: _						
Height of ground above me	ean sea	level:			m					
Height at the base of the ac	erial sys	tem ab	ove me	ean sea le	evel:		m			
Height of centre of antenna	a above	mean	sea leve	el:	1	n				
Height at highest point of a	aerial sy	stem a	bove m	nean sea	level:		m			
Associated Space Station										
						D		EAV		
Naminal arbital langituda	(if coor	tationa)			Degree *	S	E/W		
Nominal orbital longitude	(II geos	tationa	шу)		<u> </u>		·å			
		SEC	CTION	5: ANT	ENNA DE	TAIL	S			
5.1 Type of antenna (e.g. C	Cassegra	nin/Gre	egorian	etc)						
5.2 Diameter of dish		:	m							
5.3 Characteristics Of Tr	ansmit	ting A	ntenna	l						
	dE	Bi				Degrees	······································			
Maximum Isotropic gain		*		Beamwi	dth					
Polarisation										
Antenna radiation pattern ((give ret	ference	e natteri	n or prov	ide diaorar	n as ati	tachmei	nt)		

5.4 Characteristics Of Receiv	ving Antenna	ì							
	dBi				Degree	es			
Maximum Isotropic gain	*	В	Beamwidt	h					
Polarisation			_						
Antenna radiation pattern (give	e reference pa	attern	or provid	le diagrai	m as a	ttacl	nment)		
Maximum aggregated bandwid	dth								
Maximum aggregated data rate	e/Bit rate						-		
	SEC'	TION	6: TRA	NSMIT	TING				
	BEC	11011	U. IKA		11110				
6.1 Satellite Receiving Beam	Designation _								
6.2 Characteristics common to	the following	ıg list	of assign	ed freque	encies				
C4a. Class		C6.	Polarisatio	on	C3a.	Assi	gned Frequency	C8g. Maximum Aggregate Power	
of Station	7	Гуре	If linear, pr				Band (kHz)	+/ - dBW	
C4b. Nature of Service				•				·	
C7a. Designation of emission	C8a1/C8b1.* Peak Pow +/- dBW	/er		C8b2.* Max ver Density dBW/Hz	ς.		c1. Minimum Peak Power dBW	C8c1. Minimum Power Density +/ - dBW/Hz	
		•					•		
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If maximum peak power and r	naximum pov	ver de	nsity val	ues are o	f type	C8t	o, check this bo	ox 🗀.	
Provide reason for minimum p	eak power an	ıd min	nimum po	wer dens	sity (C	(8c)	values being a	absent as attachme	ent
No									
More emissions on attachment	t No								

C2a. Assigned Frequency k/M/GHz	C2a. Assigned Frequency k/M/GHz
More on attachment No .	
CECTION 7. MODILI ATION	CHADACTEDISTICS
SECTION 7: MODULATION	CHARACTERISTICS
7.1 For any types of modulation please indicate where appli	icable the characteristics of energy dispersal
7.2 FM For a carrier frequency modulated by a frequence FM) or by a signal that can be represented by a multi-chann. What are the lowest and highest frequencies of the baseband	•
as a function of baseband frequency?	
Lowest Highest	Deviations
7.3 TV For a carrier frequency modulated by a television What are the standards of the television signal (including th	
deviation for the reference frequency of the pre-emphasis cl	
Signal standard Colour standard	Frequency deviations
Please indicate where applicable the characteristics of the m signal(s) or other signals	nultiplexing of the video signal with the sound

6.4 List of Assigned Frequencies having the above common characteristics

7.4 PM For a carrier phase Please indicate the bit rate and	e-shift modulated by a signal nd the number of phases				
Bit rate	Bit rateNumber of phases				
For all types of modulation, coordination.	please provide such particulars as m	ay be useful for an interfe	rence study, i.e.		
	SECTION 8: RECEIV	VING			
8.1 Satellite Transmitting Be	eam Designation				
8.2 Characteristics common C4a. Class of Station	to the following list of assigned freq C6. Polarisation Type If linear, provide	uencies C3a. Assigned Frequency Band (kHz)	C5b. Receiving System Noise Temperature kelvins		
C4b. Nature of Service	angle in degrees	(RTL)			
8.3 Emissions received by the	ce assigned frequencies listed below C7a. Designation of emission	C8e. C/N Objective (total-clear sky) dB			
More emissions on attachme	ent No	•			

C20 Ag	signed Frequency	u k/M/CUz	. C2a. Assigned Frequency k/M/GHz				
C2a. Ass	signed Frequenc	y K/IVI/GHZ	C2a. Assigned Freque	ency k/M/Gnz			
	•						
authority may impose applicant's signature: ignatory's name:	e and to be bou	nditions or restrictions nd by the laws and reg	Compan	unication Technologic			
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Guidance Notes regarding application for an Earth Station (in a fixed satellite service) Licence (RA16)/ VSAT/USAT(C, Ku, Ka band of operation) Licence RA44

Notes:

- 1. There may be insufficient space on the application form to answer particular questions, in such cases the appropriate section should be photocopied and added to the form.
- 2. The processing of the application may be delayed if any of the details given on the form are not complete or correct.
- 3. The determination of this application by the ICT Authority is subject to successful coordination as per the provisions of Article 9 of the ITU Radio Regulations. Kindly note that the maximum duration for the coordination procedure is four months.

SECTION 4: EARTH STAT	TION DETAILS
Name of the Earth Station/VSAT/USAT	Indicate the name by which the Earth Station/VSAT/USAT will be known.
Horizon Elevation Diagram	Enter a Figure number of the diagram indicating the horizon elevation angle for each azimuth around the earth station; the horizon elevation angle is the angle viewed from the centre of the earth station antenna between the horizontal plane and a ray that grazes the visible physical horizon in the direction concerned.
Operating Angles	Enter the planned range of operating azimuthal angles. These angles are to be calculated for the nominal orbital longitude, taking into account the tolerances.
Associated Space Station	Indicate the name of the associated space station with which communication is to be established as registered with the IFRB.
Nominal Orbital Longitude	Enter the nominal longitude of the orbital position of that of the satellite expressed in decimal degrees E (the value should not exceed 180 Degrees).

SECTION 5: ANTENNA 	DETAILS
Type of Antenna	ie Cassegrain/Gregorian etc.
Maximum Isotropic Gain	Enter the gain (Gi: see RRS1.160a) 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. 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 S7. Note: This radiation diagram is identical to that in Annex III to Appendix S8.
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)	•

SECTION 6: TRANSMIT	TING DETAILS
Satellite Receiving Beam Designation	Enter the receiving beam designation by a symbol consisting of up to four 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, NWQ 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".
Class of station / Nature of service	Indicate the appropriate class of station and the nature of service using the symbols given in Tables Nos. 6A1 and 6B1 respectively of the Preface to the IFL, the SRS and the WIC. Up to four pairs of values can be provided.
Polarisation	Enter the symbol for the type of polarisation in the first box (see symbols for the type of polarisation in Table No. 9D1 of the Preface to the IFL, the SRS and the WIC). In the case of linear polarisation (symbol "L"), indicate in the second box the angle (in degrees) measured counter-clockwise in a plane normal to the beam axis from the equational plane to the electric vector of the waves as seen from the satellite.
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 satellite transponder.

Maximum aggregate power	Enter the maximum aggregate power (dBW) of all carriers supplied to the input of the antenna. This information applies only to the case of a receiving satellite antenna beam operating with a transmitting associated earth station.
Designation of emission	Indicate the necessary bandwidth (RR.S1.152) and class of emission (RR.S1.139) in accordance with Article 4 and Appendix 6; see also IFRB Circular-letters No. 457 of 2 June 1980 and No. 511 of 8 July 1982.
Maximum peak power	Enter the appropriate sign (+ or -) and the maximum value of the total peak envelope power (RR.S1.157), expressed in dBW, supplied to the input of the antenna for each corresponding emission.
	Note: If the maximum values of peak envelope power are being provided for individual carriers, they should be of type C8a1. If the notification does not concern individual carriers (e.g. as in spread spectrum applications) provide a general designation of emission (item C7a) and total peak power values of type C8b1.
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 carriers below 15 GHz, or averaged over the worst 1 MHz band for carriers above 15 GHz. For narrow band carriers with a necessary bandwidth (RR.S1.152) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz or 1 MHz) to obtain this value of maximum power density.
	Note: If the values of maximum power density are being provided for individual carriers, they should be of type C8a2. If the notification does not concern individual carriers (e.g. as in spread spectrum applications) provide a general designation of emission (item C7a) and maximum power density values of type 8b2.
Minimum peak power	Enter the appropriate sign (+ or -) and the minimum value of the peak envelope power (RR.S1.157), expressed in dBW, supplied to the input of the antenna for each corresponding emission (carrier type).
Minimum power density	Enter the appropriate sign (+ or -) followed by the value of the minimum power density per Hertz (expressed in dBW/Hz) supplied to the input of the antenna for each corresponding emission (carrier type) averaged over the worst 4 kHz band for carriers below 15 GHz, or averaged over the worst 1 MHz band for carriers above 15 GHz. For narrow band carriers with a necessary bandwidth (RR.S1.152) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz or 1 MHz) to obtain this value of minimum power density.
Assigned frequency	Enter the assigned frequency as defined in RR.S1.148 expressed in kHz up to 28 000 kHz inclusive, in MHz above 28 000 kHz to 10 500

MHz inclusive, and in GHz above 10 500 MHz, and enter the letter k,
M or G, as appropriate.

SECTION 7: RECEIVING DETAILS		
Satellite Transmitting Beam Designation	Enter the transmitting beam designation by a symbol consisting of up to ten characters (as for Satellite Receiving Beam Designation in Sec 6).	
Class of station / Nature of service	Same as for 'Class of station / Nature of service' in Sec 6.	
Polarisation	Same as for 'Polarisation' in Sec 6.	
Assigned frequency band	Same as for 'Assigned frequency band' in Sec 6.	
Receiving system noise temperature	Enter the total receiving system noise temperature expressed in kelvins, referred to the output of the space station receiving antenna.	
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. e.g. 30M0F8FHN is 30M0 = 30MHz, F = Frequency modulated, 8 = Composite system with one or more channels containing analogue information, F = Television (video), H = Sound of broadcasting quality (stereophonic or quadrophonic), N = No multiplexing employed. Indicate the necessary bandwidth (RR.S1.152) and class of emission (RR.S1.139) in accordance with Article 4 and Appendix 6; see also IFRB Circular-letters No. 457 of 2 June 1980 and No. 511 of 8 July 1982.	
C/N objective (total-clear sky)	Enter the required carrier to noise ratio, in decibels, for the overall link for each carrier when clear sky propagation conditions apply.	
Assigned frequency	Enter the assigned frequency as defined in RR.S1.148 expressed in kHz up to 28 000 kHz inclusive, in MHz above 28 000 kHz to 10 500 MHz inclusive, and in GHz above 10 500 MHz, and enter the letter k, M or G, as appropriate.	