



Suruhanjaya Komunikasi dan Multimedia Malaysia
Malaysian Communications and Multimedia Commission

**GUIDELINE ON THE PROVISION OF FM CAMPUS RADIO SERVICE
(MCMC/G/07/07 – CAMPUS RADIO)**

20 July 2007

Notice:

The information contained in this document is intended as a guide only. For this reason it should not be relied on as legal advice or regarded as a substitute for legal advice in individual cases. Parties should still refer to the legislative provisions contained in the law.

Malaysian Communications and Multimedia Commission
63000 CYBERJAYA
Selangor Darul Ehsan
Tel: +60 3-8688 8000
Fax: +60 3-8688 1000
Website: www.mcmc.gov.my

GUIDELINE ON THE PROVISION OF FM CAMPUS RADIO SERVICE

TABLE OF CONTENTS

	Page No.
1. Introduction	3
2. Campus Radio	3
3. Relevant Regulatory Framework under the Communications and Multimedia Act 1998	4
4. Licensing Requirements	5
5. Eligibility	6
6. Spectrum Requirements	6
7. Equipment Used	9
8. Campus Radio Station Logs and Records	9
9. Application	10
10. Effective Date and Revision	10
11. MCMC Contact	11
Annexure 1	12
Annexure 2	15
Annexure 3	16

GUIDELINE ON THE PROVISION OF FM CAMPUS RADIO SERVICE

1. Introduction

- 1.1 The Malaysian Communications and Multimedia Commission (MCMC) is the authority responsible for regulating the communications and multimedia industry in Malaysia. Amongst others, the MCMC is responsible for licensing communications activities as well as the use of spectrum, numbers and electronic addresses.
- 1.2 The MCMC is pleased to note the interest among the Universities to have their own FM radio service (Campus Radio). The low cost FM receiver, amongst others, makes it an affordable means for the University to relay information to the students and staffs of the University through FM radio network.

2. Campus Radio

- 2.1 In this document, Campus Radio is defined as a type of low power FM radio station that is owned and operated by the University. It shall provide a restricted FM radio service within the University campus areas and to University's campus community only.
- 2.2 The main purpose of the Campus Radio is to provide the opportunity for the students to gain live broadcasting training experience, promote cultural and linguistic diversity as well as facilitate discussion and expression of opinion among the students. In addition, it will also act to relay information, news and relevant University based content for the campus community.

2.3 In relation to the above, MCMC provides this regulatory framework for the Universities to own and operate their own FM radio station in the campus. This guideline serves as a guide to the Universities intending to set up transmitters to provide Campus Radio service to the University's campus community and provides information on Campus Radio licensing and installation requirements.

3. Relevant Regulatory Framework under the Communications and Multimedia Act 1998

3.1 The relevant legislation applicable to Campus Radio are as follows:

- (a) Communications and Multimedia Act 1998 (CMA 1998);
- (b) Communications and Multimedia (Licensing) Regulations 2000;
- (c) Communications and Multimedia (Spectrum) Regulations 2000;
- (d) Communications and Multimedia (Licensing) (Exemption) Order 2000; and
- (e) Communications and Multimedia (Technical Standards) Regulations 2000

4. Licensing Requirements

4.1 The University (the applicant) that intends to own and operate a Campus Radio station is required to apply for an appropriate license under the CMA 1998.

4.2 The provision for Campus Radio is classified under limited content applications service (LCAS) and the term is defined in Section 6 of the CMA 1998 as:

- “6. “limited content applications service” means a content application service the appeal of which is limited because of:-
- (a) It is being targeted to a special interest group;
 - (b) It is being available in a restricted geographical areas;
 - (c) It is being available for a short time; and
 - (d) It is being based on content of limited appeal.”
- 4.3 Therefore, the applicant who intends to own and operate Campus Radio will require:
- (a) Content Application Service Provider (Class) (CASP(C)) licence for radio broadcast distribution;
 - (b) Network Facility Provider (Class) (NFP(C)) licence for transmitter equipment;
 - (c) Network Service Provider (Class) (NSP(C)) licence for broadcasting distribution service; and
 - (d) Apparatus Assignment for use of spectrum.
- 4.4 However, the applicant needs to only apply for the CASP(C) and not NFP(C) or NSP(C) if the transmitter and broadcasting distribution services are to be outsourced from a third party. The applicant is required to inform MCMC on the power strength transmitted and the name of the third party concerned.
- 4.5 A person who intends to operate under a class license shall register with the Commission by submitting a registration notice (form as provided in **Annexure 1**) to the MCMC. A registration fee of RM2500 is charged per application and to be submitted together with the application form. Supporting documents are also required in the registration notice for class license and details are as described in **Annexure 2**.

5. Eligibility

- 5.1 To be eligible for application, the following elements must be present;-
- (a) A public higher educational institution registered with the Ministry of Higher Education; and
 - (b) The campus ground must consist of clusters of buildings on a piece of land.

6. Spectrum Requirements

- 6.1 The applicant will have to apply for Apparatus Assignment (AA) from MCMC for the use of spectrum (AA form as provided in **Annexure 3**). Spectrum fee is waived for Campus Radio application.
- 6.2 Applicants are required to submit topographical maps (preferably in electronic format) which clearly show the coverage boundary of proposed service area.
- 6.3 The MCMC reserves the right to decide on the suitable frequency for the applicant.
- 6.4 Issuance of an AA is subject to successful coordination among assigned stations. Further coordination with neighboring countries is required when the Campus Radio service area is within 10 km from the border line.
- 6.5 The operation of Campus Radio shall not cause interference to other services. Therefore, it can neither claim protection from being interfered by other licensed stations/services nor can it cause interference to them.

- 6.6 Coverage of Campus Radio shall be limited within the University compound only. As such, AA will only be issued to the University if the FM transmitter signal strength at the University boundary does not exceed the signal strength of 48 dB μ V/m (measured at 10 meters above ground level)¹. This limit applies regardless whether the University uses its own facility or outsourced it.
- 6.7 The transmitter is not limited by power or transmitter height, as long as it produces signal strength within the above limit (Note: A 30 Watt transmitter at height of 10m above ground may provide coverage from 5km to 10 km radius from its transmitting tower).
- 6.8 Transmission of the Campus Radio service shall follow transmission standard as described in the ITU-R BS.450-3 document on Transmission standard for FM sound broadcasting at VHF.
- 6.9 The University may require installing one or a network of low power transmitters in order to cover the whole University areas. Programs from studio must be fed to these transmitters through cable link. Examples are given in the diagrams 1 and 2 :-

1. ITU-R BS.412-9 document on Planning Standards for terrestrial FM sound broadcasting at VHF.

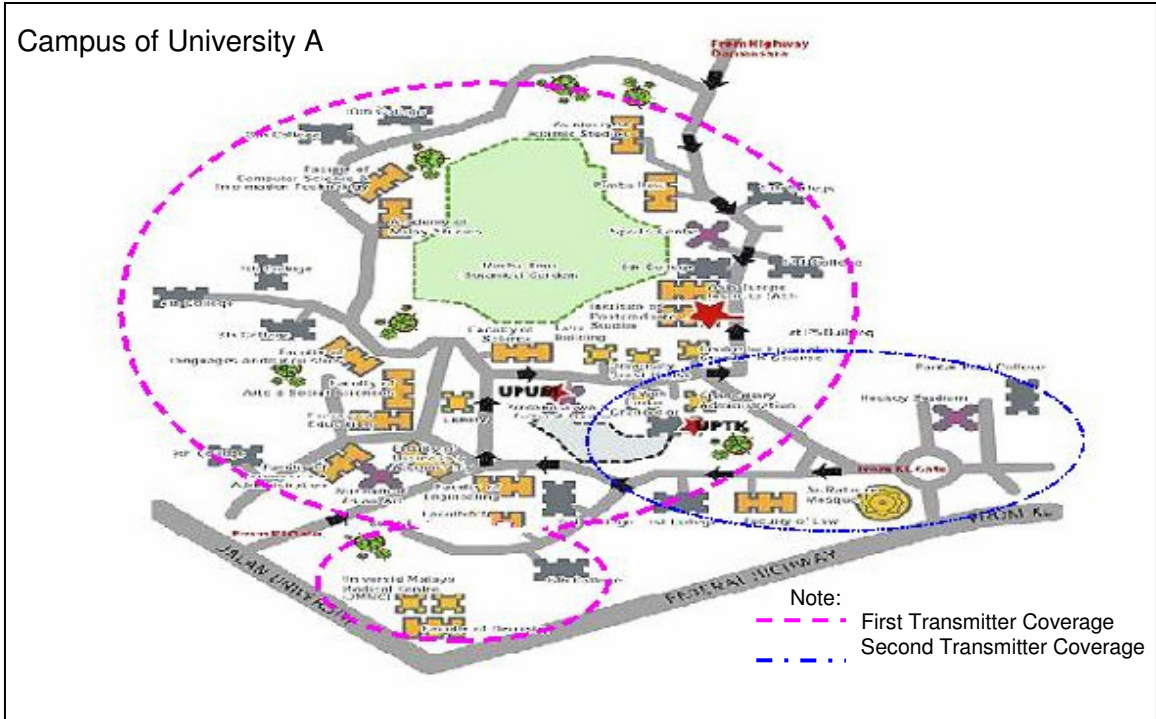


Diagram 1. Example of Campus Radio coverage with two transmitters.

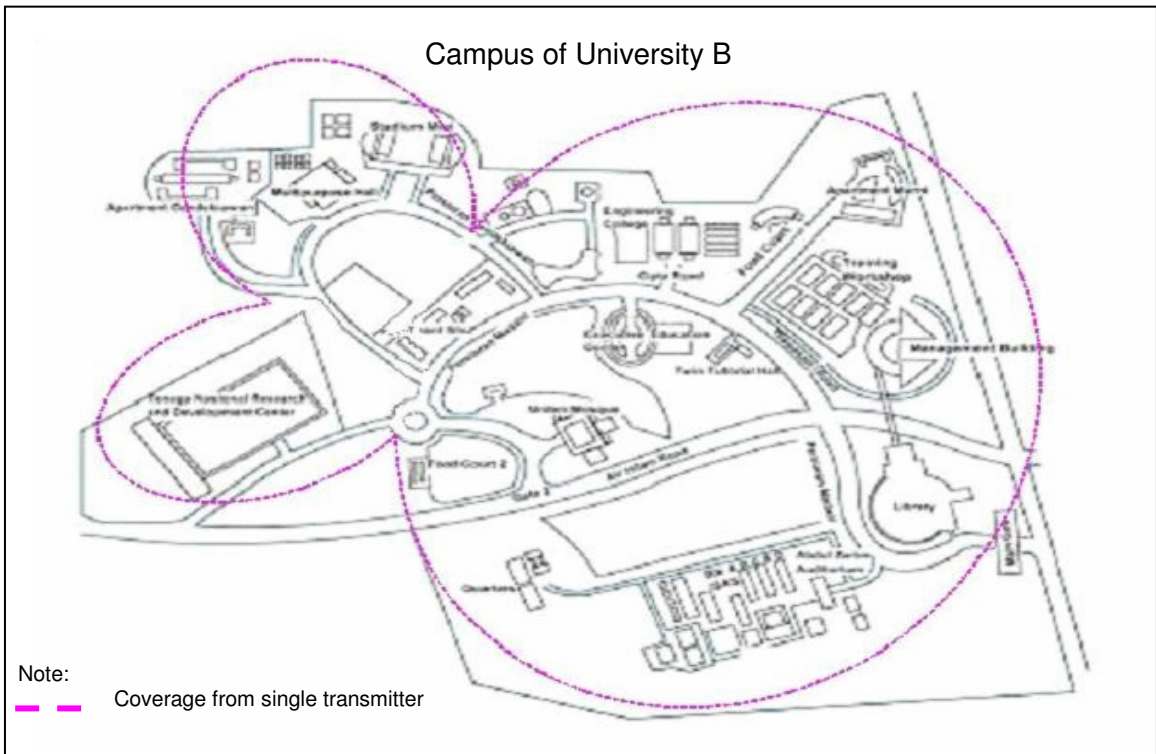


Diagram 2. Example of Campus Radio coverage with single transmitter.

7. Equipment Used for Campus Radio

- 7.1 All equipment used for Campus Radio are required to be certified under the Communications and Multimedia (Technical Standards) Regulations 2000, by MCMC's registered certifying agency, which is currently, SIRIM QAS International Sdn. Bhd.
- 7.2 The University shall ensure that the installation of the equipment is done in accordance with good engineering practice.

8. Campus Radio Station Logs and Records

- 8.1 Each Campus Radio station must maintain a station log. Each log entry must include the time and date of observation and the name of the person making the entry. The following information must be entered in the station log:-
- (a) Brief explanation on station outage; and
 - (b) Any adjustment, repair or replacement to the transmitter system.
- 8.2 The station must also keep audio record on the program aired through the Campus Radio service for a minimum period of two (2) weeks.
- 8.3 The University shall make the Campus Radio station available for inspection by the MCMC at any time it is in operation. During the inspection, station logs and audio record shall be made available for inspection or duplication at the request of MCMC's representatives.

9. Application

- 9.1 This document and application form may be revised from time to time. Applicants are advised to refer to the MCMC website prior to submitting their application to ensure that they are in possession of the current version of this guideline, application forms and other relevant documents.
- 9.2 The application form is available at MCMC Headquarters and its regional offices. Forms can also be downloaded from the MCMC website: (http://www.mcmc.gov.my/mcmc/what_we_do/spectrum/apparatus/form.app.asp)
- 9.3 All applications are to be accompanied by duly completed forms as provided in this guideline with all the relevant documents and submit to:
- (a) Resource Assignment and Management Division for Apparatus Assignment; and
 - (b) Licensing and Enforcement Division for licenses,

Malaysian Communication and Multimedia Commission
63000 Cyberjaya
Selangor Darul Ehsan

10. Effective Date and Revision

- 10.1 The guideline shall come into effect on 20 July 2007 and shall continue to be effective until modified, varied or revoked by the MCMC.
- 10.2 The guideline is intended to be used as a guide only and do not prevail over any legislative provisions contained in the law.

11. MCMC Contact

11.1 For any queries and further information, please contact:

Senior Director
Resource Assignment and Management Division
Malaysian Communication and Multimedia Commission
63000 Cyberjaya
Selangor Darul Ehsan

Tel No : +60 3-8688 8000

Fax No : +60 3-8688 1001

THIRD SCHEDULE

(Subperaturan 25 (1)/Subregulations 25 (1))

BORANG D/FORM D

AKTA KOMUNIKASI DAN MULTIMEDIA 1998/
COMMUNICATIONS AND MULTIMEDIA ACT 1998

PERATURAN-PERATURAN KOMUNIKASI DAN MULTIMEDIA
(PELESENAN) 2000 /
COMMUNICATIONS AND MULTIMEDIA (LICENSING) REGULATIONS 2000

NOTIS PENDAFTARAN UNTUK LESEN KELAS/
REGISTRATION NOTICE FOR CLASS LICENCE

ASAL
ORIGINAL

No. Siri:
Serial No.:

1. NO. LESEN KELAS
CLASS LICENCE NO.
- | | |
|--|---------|
| (a) lesen kemudahan rangkaian
<i>network facilities licence</i> | [] |
| (b) lesen perkhidmatan rangkaian
<i>network service licence</i> | [] |
| (c) lesen perkhidmatan aplikasi
<i>applications service licence</i> | [] |
| (d) lesen perkhidmatan aplikasi kandungan
<i>content applications service licence</i> | [] |

Tandakan (/) lesen kelas yang dengannya pemohon berhasrat untuk menjalankan kendalian:

Tick (/) the class licence the applicant wishes to operate under:

2. (a) Nama Pemohon
Name of Applicant

.....

(b) Kedudukan pemohon di sisi undang-undang
Legal status of applicant

- Syarikat/*Company* Pekongsian/*Partnership*
 Individu/*Individual* Persatuan/*Society*
 Lain-lain/*Others* *

*Sila nyatakan dan berikan butir-butir dalam lampiran
**Please specify and provide particulars in annex*

c) *Alamat/Address*

.....
.....
.....
.....

No. Telefon No. Faks.....
Telephone No. Fax No.

Alamat e-mel
E-mail address

3. Perihal an kemudahan/perkhidmatan/aktiviti yang akan dipunyai atau diberi
atau dikendalikan oleh pemohon:
*General description of facilities/service/activity to be owned or provided or
operated by the applicant:*

.....
.....
.....

4. Kemudahan/perkhidmatan terletak/akan diberikan di (sila berikan pengenalpastian spt. Protokol internet/alamat laman web, jika terpakai):

The facilities/services are located/provided at (please provide on-line identification e.g. internet protocol/web site address, where applicable):

.....
.....
.....

No. Telefon No. Faks.....
Telephone No. Fax No.

Alamat e-mel
E-mail address

5. Saya/Kami,, pemohon, dengan ini mengaku dan mengesahkan bahawa semua maklumat yang diberikan dalam permohonan ini dan apa-apa lampiran yang dikepikan adalah benar dan tepat.

I/We,, the applicant, declare and confirm that all the information given in this application and in the attached annexes is true and accurate.

Tarikh:
Date:

Ditandatangani oleh]

Signed by]

untuk dan bagi pihak]

for and on behalf of]

NOTA:
NOTE:

Jika ruang yang disediakan tidak mencukupi untuk memberikan butir-butir, sila kepilkan lampiran. Setiap lampiran mestilah ditandatangani ringkas oleh orang yang menandatangani permohonan ini.
If the space is insufficient to provide particulars, please attach annexes. Any annex should be initialled by the signatory to this application.

REGISTRATION NOTICE FOR CLASS LICENCE

To : The Head of Licensing Department
Regulatory Division
Communications and Multimedia Commission

From : -

Name :

Position :
(Note: must be Director/CEO/Senior Management level)

Company :

*I/We hereby submit Registration Notice for Class Licence and confirm that the following documentation is submitted together with the duly completed form:-
(Please tick in the boxes provided).*

- 1) Two (2) sets of the Registration Notice
- 2) Certified copies* of relevant documents in support of the legal status of applicant (company/partnership/individual/society/others)
- 3) A crossed cheque for the amount of RM2,500.00, made payable to Suruhanjaya Komunikasi dan Multimedia Malaysia.
- 4) Organisation profile (for companies/partnership/society) inclusive of current number of staff and new job opportunities to be created
- 5) A proposal on the facilities/services should include:
 - (a) Introduction – brief description of network/service/facility to be offered and other related information.
 - (b) Operating procedures including a network topology, details of equipment to be used, connectivity to be obtained.
 - (c) Other related information.
- 6) Each page of annexure should be initialled by the above signatory.

Signature : Date :

* Certification must be by Director/Company Secretary or any other person as authorized by the Commission.



Suruhanjaya Komunikasi dan Multimedia Malaysia
Malaysian Communications and Multimedia Commission

63000 Cyberjaya, Selangor Darul Ehsan
 Tel : 60 3-86888000 Fax : 60 3-86881000 <http://www.mcmc.gov.my>

**APPLICATION FOR APPARATUS ASSIGNMENT (S)
 (BROADCASTING SERVICE)**

<input type="checkbox"/> New apparatus		<input type="checkbox"/> Type of apparatus (Please refer to instructions):		Application Fee RM60 per application
<input type="checkbox"/> Existing apparatus	Client ID no.:	Assignment no.(s):	Callsign:	

To be used when applying for all broadcasting service apparatus assignment (s)

1. CLIENT INFORMATION				
Organisation name:				
Applicant name:				
Business / Residential address:				
Town / State:		Postal code:		
Billing address: (if different from above)		Postal code:		
Telephone (office/home):	Fax:	E-mail:		
Contact person:		Company / Business reg. no.:		
Nature of business:		NRIC no.:		
2. APPLICATION INFORMATION				
Proposed use of system / System description:				
3. GEOGRAPHIC AREA INFORMATION				
Location name:				
Site address:				
Town / State:		Postal code:		
Apparatus name:				
Latitude (°N):	__° __' __"	Longitude (°E):	__° __' __"	
Ground elevation: (metres above mean sea level)				
Structure height (m):				
Building height (m):				
Transportable:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Radius of operation (km):		
4. FREQUENCY INFORMATION				
Desired transmit frequency (MHz):		Desired receive frequency (MHz):		
Bandwidth (MHz):		Emission:		
5. COVERAGE INFORMATION				
Center of coverage area:	Latitude (°N):	__° __' __"	Longitude (°E):	__° __' __"
Radius (km):				
<i>Note: Please attach coverage area map.</i>				

6. ANTENNA INFORMATION			
Manufacturer and model:			
Antenna gain (dB):		Polarization (vertical, horizontal etc):	
Azimuth of main beam (0°-omni, 360°-directional north):			
Elevation angle (°):		Height above ground (m):	
Antenna displacement (m): <i>For antenna farm only</i>		Latitude (°N):	__° __' __" Longitude (°E):
7. APPARATUS INFORMATION			
Manufacturer (Transmitter):		Model (Transmitter) / Serial no.:	
Manufacturer (Receiver):		Model (Receiver) / Serial no.:	
Transmitter power (watts):		Type approval no.:	
Transmission line length (m)		Line type (RG8, RG213 etc):	
8. FILTER INFORMATION			
Manufacturer/Model:			
Insertion loss (dB):		Tuned frequency (MHz):	
Manufacturer/Model:			
Insertion loss (dB):		Tuned frequency (MHz):	
<i>Note: If necessary, please attach Technical Specifications & Brochure for items 6 (antenna pattern), 7 and 8 together with the form.</i>			

9. DO YOU HAVE A LICENCE / ASSIGNMENT UNDER THE COMMUNICATIONS AND MULTIMEDIA ACT 1998? IF SO, PLEASE PROVIDE DETAILS OR A COPY OF YOUR LICENCE / ASSIGNMENT.

10. PLEASE STATE THE REQUIRED VALIDITY DATE AND PERIOD.

Date:	Date assignment is issued OR Date required _____ (Please state the date)
Period (from 3 months to 5 years):	

11. I CERTIFY THAT THE STATEMENTS MADE IN THIS APPLICATION ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE, THE APPARATUS IS TYPE APPROVED FOR USE IN MALAYSIA AND IT WILL BE USED ONLY FOR THE PURPOSES AUTHORIZED BY THE MINISTER OF ENERGY, COMMUNICATIONS AND MULTIMEDIA.

Signature:		Date:	
Name of signatory:		I.C. no.:	
Business / Company chop:			

FOR CMC USE ONLY

Fee paid:	
Cheque or Bank in slip no.:	
Receipt no. / date:	
Spectrum Plan checked:	