

PCC.III/DEC.20 (VII-97)

**PARTICIPATION IN INTERNATIONAL ACTIVITIES ON FIXED WIRELESS
ACCESS (FWA)**

The Seventh Meeting of the Permanent Consultative Committee III: Radiocommunications decided that the Executive Secretary of CITEL shall provide all members of PCC.III with the ITU-R Survey on “Fixed Wireless Access within IMT-2000 for Developing Countries,” (ITU-R Circular Letter 8/LCC/45), contained in Annex A, requesting that they:

1) Consider responding to the survey and that a copy of the response be sent to the Chairman of PCC.III and the Executive Secretariat of CITEL for the purposes of consolidating Region 2 information.

2) Consider the provision of contributions to ITU-R WP 8A for the newly approved question ITU-R xxxx/8, entitled “Frequency bands, technical characteristics and operation needs for the local loop, wireless access systems”, which was distributed previously (cf. PCC.III/DEC.17 (VI-96), “Identification of the Frequency Spectrum for Fixed Wireless Access (FWA)”), as well as to PCC.III with the intention of harmonizing the studies in Region 2.

Annex A

**INTERNATIONAL
TELECOMMUNICATION UNION**

Radiocommunication Bureau

(Direct Fax No. +41 22 730 57 85)



Circular Letter
8/LCCE/45

4 March 1997

**To Administrations of Member States of the ITU and
Radiocommunication Sector participating in the
work of Radiocommunication Study Group 8**

Subject: Survey on Fixed Wireless Access within IMT-2000 for Developing Countries

ITU-R Task Group 8/1 has decided at its 12th meeting (Cheju, Republic of Korea, 18-28 February 1997) to conduct a survey on the Fixed Wireless Access (FWA) within IMT-2000*.

* IMT-2000 is also known as Future Land Mobile Telecommunication Systems (FPLMTS).

The intention of this survey is to acquire information to assess how best IMT-2000 can meet the requirements for the provision of FWA services (voice and data), particularly in developing countries.

The survey questions are contained in the attachment and the replies should be sent to Mr. A. Kumar, Chairman of Working Group 1 (Developing Countries) of ITU-R Task Group 8/1 at the address below, preferably before the next meeting of Task Group 8/1 scheduled for 8-19 September 1997.

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Robert W. Jones
Director, Radiocommunication Bureau

Attachment: Survey questions

cc: Director, BDT

Distribution:

- Administrations of Members States and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 8
- Chairman and Vice-Chairmen of Radiocommunication Study Group 8
- Secretary General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

ATTACHMENT

SURVEY QUESTIONS

The questions are divided into topics:

A) PRESENT SITUATION

- 1) What is the demand for fixed access services in your country? Is there any unsatisfied demand?
- 2) Do you use or intend to use existing cellular infrastructure and cellular frequencies to provide both mobile and fixed wireless access services?

- 3) What is the number of fixed wireless access subscribers per 100 habitants that exists now and that you intend to reach around year 2000?
- 4) What is the number of fixed wireless access subscribers at present?
- 5) What is the user's opinion about fixed wireless terminal voice quality?
- 6) What are the technologies and who are the manufacturers of FWA systems that are in use in your country?
- 7) What kind of services are necessary in your country (percentage distribution for each one)?
 - i) voice;
 - ii) data.
- 8) What would be the required minimum bit rate for data services?

B) SERVICES AND TECHNOLOGIES

- 9) What technologies do you consider viable or suitable for your country e.g. satellite/cellular/fixed wireless/cordless/multi-access radio? Please justify your response.
- 10) What is the comparative integrated cost per subscriber access to the service provider/operator (switch, transmission and installation) between wireline access and wireless access for providing fixed services: Also, what are the target costs for these in your country? (Assuming blocking of 1% and near wireline quality. Other figures may be indicated if assumed differently)
What is the average network operation and maintenance cost per subscriber access compared to wireline?
- 11) Is there restricted mobility on the wireless access system? If so, what are the requirements?
- 12) What are the likely applications or services for data rate higher than 64 kbps?
- 13) What business sectors will be involved - nature and size of the business?
- 14) Is ISDN compatibility required?
- 15) Do you see benefit in having a global standards for providing FWA in comparison to the use of different technologies/standards to meet local requirements? Please give reasons for response.
- 16) Do you see convergence of mobile and fixed networks? Please justify.

C) SCHEDULE

- 17) When does your administration need FWA to be available?

D) REQUIREMENTS

- 18) What is your estimate about the potential demand (percentage of each location) for FWA in your country? Assuming:
 - i) urban: >1000 subscribers per square km
 - ii) suburban: 10 - 1000 subscribers per square km
 - iii) rural: 1 - 10 subscribers per square km
 - iv) remote:

E) RADIO SPECTRUM REQUIREMENT

- 19) i) Do you plan to allocate specific frequency bands for FWA or to use IMT-2000 band for FWA?
- ii) What are the frequency spectrum bands which are currently in use for FWA?
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