

QUESTION ITU-R 215-3/5*

Frequency bands, technical characteristics, and operational requirements for fixed wireless access systems in the fixed and/or land mobile services**

(1997-2000-2007-2009)

The ITU Radiocommunication Assembly,

considering

- a) the potential of wireless access to enhance the availability of basic communication services in many countries, particularly developing countries;
- b) that there is a need for efficient use of the radio-frequency spectrum;
- c) that wireless access has potential for greater economic and socio-economic benefits than other access media to telecommunication networks (e.g., PSTN, ISDN);
- d) that wireless access technologies allow fast and economic deployment of telecommunication facilities;
- e) that enhanced competition in the provision of services is desirable;
- f) that fixed wireless access systems may be implemented in frequency bands used by both the fixed and mobile services;
- g) that a number of ITU-R Recommendations exist on various aspects of fixed wireless access, for example Recommendations ITU-R F.755, ITU-R F.757, ITU-R F.1399, ITU-R F.1400, ITU-R F.1401, ITU-R F.1499, ITU-R F.1402, ITU-R M.687, ITU-R M.819, ITU-R M.1033, ITU-R M.1073, and ITU-R M.1801 as well as a Handbook on Land Mobile (including Wireless Access);
- h) that different wireless access technologies are suitable for different environments;
- j) that the ongoing studies of IMT-2000 in the ITU have highlighted fixed wireless access as an important application;
- k) that the availability and possible adaptation of mobile technologies for fixed wireless access applications may be advantageous;
- l) that spectrum sharing between fixed and mobile wireless access applications may improve the spectrum utilization;

* Former Question ITU-R 215-2/8.

** Fixed wireless access is defined in Recommendation ITU-R F.1399.

- m) that there is a need to consider:
 - both fixed and mobile wireless access services in conjunction with each other; and
 - the cost-benefits of integration of both types of services;
- n) that different fixed wireless access environments may require different frequency bands;
- o) that broadband wireless access, including wireless access to asynchronous transfer mode (ATM) and Internet Protocol (IP) core networks is a category of fixed wireless access that is becoming important,

decides that the following Questions should be studied

- 1 What are the frequency bands suitable for fixed wireless access systems within the terrestrial fixed and/or mobile frequency allocations?
- 2 What are the frequency bands that might allow compatible operation between wireless access systems and systems of existing radio services within the terrestrial fixed and/or mobile frequency allocations?
- 3 What are the characteristics and operational requirements of fixed wireless access systems?
- 4 What are the overall RF and IF bandwidth requirements for fixed wireless access systems within the terrestrial fixed and/or mobile frequency allocations?
- 5 What are the spectrum sharing criteria for:
 - wireless access systems and systems supporting other radio services?
 - wireless access systems using different technologies?
- 6 What are the technologies suitable for wireless access?
- 7 What techniques need to be considered for fixed wireless access operation to enhance spectrum sharing?
- 8 What are the interface requirements between wireless access systems and the switched network (e.g., PSTN, ISDN)?
- 9 What additional vocabulary should be used with fixed wireless access systems?

further decides

- 1 that the results of the above studies should be included in one or more Recommendations, Reports or Handbooks;
- 2 that the above studies should be completed by 2010.

Category: S2