

**PCC-III/REC. 26 (VI-96)**

**IDENTIFICATION OF SPECTRUM FOR FIXED WIRELESS ACCESS  
SYSTEMS IN THE AMERICAS**

The Sixth Meeting of the Permanent Consultative Committee III: Radiocommunications,

**CONSIDERING:**

- a) That Recommendation PCC.III/REC.10(III-95) on the identification of spectrum for Fixed Wireless Access (FWA) requested contributions on this topic;
- b) That Document PCC.III-295/96, an input contribution that was received and discussed at the Fourth Meeting of PCC.III, proposed a draft Recommendation on Fixed Wireless Access in the Americas operating in the 3.4 - 3.7 GHz Band;
- c) That the Fourth Meeting of PCC.III identified the following issues on FWA:
  - the need to have multiple frequency bands harmonized for FWA;
  - the need for each country to understand its FWA requirements in order to provide service in that country;
  - the need to consider the applicability of systems based on standardized radio interfaces and other systems based on proprietary radio interface technologies;
  - the desirability of the countries of the region to adopt solutions that favor economies of scale;
- d) That the ITU-R is developing a "Land Mobile Service Handbook (including Wireless Access)" addressing FWA issues and providing technical and economic considerations on FWA, and that a draft version is available (Document PCC.III-296/96);
- e) That cellular telephone services operate in the 824-894 MHz band in most of the CITELE member countries;
- f) That by Recommendation 12 (III-95), PCC.III recommended that, for the Americas, band 1850 - 1990 MHz be designated for the operation of personal communication systems, and that by Recommendation 11 (III-95), PCC.III recommended considering sub-bands 1850 - 1910 MHz paired with 1930 - 1990 MHz, and sub-band 1910 - 1930 for not paired use;
- g) That some countries have adopted or are developing regulatory framework for use of the band 1910-1930 MHz on an unlicensed basis, subject to power limitation and clearly defined spectrum coordination framework;
- h) That some countries have adopted and are using the 1910 - 1930 MHz band for FWA systems;
- i) That the 2 - 3 GHz band has been identified for multiple other applications and thus should be avoided for FWA harmonization;
- j) That it is not feasible to adopt a single frequency band for FWA throughout the Region;

- k) That the band 3.4 - 3.7 GHz is not available for Fixed Wireless Access use in the United States, as the band is used by high-powered radars in that country; and these radars are also operated on an international basis pursuant to the Radio Regulations.

**RECOGNIZING :**

- a) That the usage of the range 3.4 - 3.7 GHz by the Fixed Service, Radiolocation Service, and Fixed-Satellite (space-to-Earth) Service is governed by the Radio Regulations;
- b) That administrations will implement Fixed Wireless Access subject to spectrum availability, their own regulatory framework, and taking account of relevant frequency compatibility aspects of usage in neighboring countries;
- c) That some countries in the Region are involved in the operation of airborne and maritime high-powered radars in the 3.4 - 3.7 GHz band.

**RECOGNIZING FURTHER :**

That studies are underway to quantify any incompatibility issues between FWA and PCS in the range 1850-1990 MHZ;

**RECOMMENDS:**

- 1) That Administrations consider making provisions for FWA applications in the bands 824-849 / 869-894 MHZ, 1850 - 1990 MHZ and 3.4-3.7 GHz ;
- 2) That until conclusion of studies referred to above, administrations intending to implement systems within the band 1850-1990 MHZ should consider the possible need to take technical and operational measures to facilitate introduction of compatible services;
- 3) That administrations consider implementation of FWA in the band 3.4-3.7 GHz with the understanding that:
- they should establish appropriate sub-bands to promote orderly development of the service within their countries, and
  - in some countries there may be cases where FWA services may need to take technical and operational measures to coexist with radar usage in this band;
- 4) That PCC.III continue to study the suitability of additional frequency bands for use by the Fixed Wireless Service in the future.

