

PCC.II/REC. 43 (XXIII-14)¹

USE OF THE 1710-1780 / 2110-2180 MHZ BANDS IN THE AMERICAS FOR BROADBAND MOBILE SERVICES

The XXIII Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) That there is a need in the Region 2 countries to fulfil the fundamental objectives of universal access and service of our citizens to the Internet and the Information Society as they are a key element for the economic development and advancement of our societies, especially in developing countries;
- b) That mobile connectivity and the resulting capacity requirements are growing exponentially with the increasing adoption of smartphones and other data intensive access devices and there are a significant number of activities to find additional spectrum within countries and regions and also on a global basis;
- c) That it is essential that the use of the bands be harmonized regionally, and wherever possible, globally and it is also very important to consider how these bands that are identified, particularly those that are in the vicinity of existing or other potential bands, can be incorporated to maximize their use, taking into account the requirements of the current users of the frequency bands;
- d) That careful planning of band pairing, duplex spacing, uplinks, downlinks and contiguous channels can increase spectrum efficiency, decrease interference, improve roaming, reduce costs to consumers and provide access to more devices;
- e) That [Recommendation ITU-R M.1036-4](#) “Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications (IMT) in the bands identified for IMT in the Radio Regulations (RR)” covers international frequency arrangements for all the bands identified for IMT in the International Telecommunication Union (ITU) Radio Regulations;
- f) That [Recommendation PCC.II/REC. 8 \(IV-04\)](#) “Frequency arrangements for IMT-2000 in the bands 806 to 960 MHz, 1710 to 2025 MHz, 2110 to 2200 MHz and 2500 to 2690 MHz” covers frequency arrangements for the bands 806-960 MHz, 1710-1885 MHz, 1885-2025 MHz, 2110-2200 MHz and 2500-2690 MHz;
- g) That the bands 1770-1780 MHz paired with 2170-2180 MHz are a contiguous extension of the pairing 1710-1770 MHz with 2110-2170 MHz, which are covered in 3GPP Band 10, Arrangement B5 in [Recommendation ITU-R M.1036-4](#), and Arrangement 5 in [Recommendation PCC.II/REC. 8 \(IV-04\)](#),

RECOGNIZING:

- a) That the mobile satellite service operates in the band 2000-2020 MHz/2180-2200 MHz and should be protected from harmful interference from mobile service operations in the adjacent bands;
- b) That broadband mobile deployments in the band 1710-1780 MHz/2110-2180 MHz should not cause interference to systems in other countries;

¹ CCP.II-RADIO/doc. 3579/14 rev.1

c) That use of the band 1710-1780 MHz/2110-2180 MHz by broadband mobile services does not preclude use by other services to which these bands are allocated;

d) That harmonizing the bands 1710-1780 MHz /2110-2180 MHz for the mobile service within Region 2 contributes to the success of mobile broadband deployment by enabling economies of scale and potentially simplifying roaming.

RECOMMENDS:

That CITEL administrations that plan to use the 1710-1780 MHz / 2110-2180 MHz band for broadband mobile services, do so by adding additional contiguous bandwidth as an expansion of the existing bands (1710-1770 MHz / 2110-2170 MHz or 1710-1755 MHz / 2110-2155 MHz in some countries),