

FREQUENCY ARRANGEMENTS FOR THE BANDS IDENTIFIED FOR INTERNATIONAL MOBILE TELECOMMUNICATIONS AT WRC-07

The XIX Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting (PCC.II),

CONSIDERING:

- a) That the ITU Radio Regulations identify the bands in the following table as intended for use by administrations wishing to implement IMT, including IMT-2000 and IMT-Advanced. This identification does not preclude the use of these bands by any application of the services to which they are allocated or identified and does not establish priority in the Radio Regulations. It has to be noted that different regulatory provisions apply to each band. The Regional deviations for each band are described in the different footnotes applying in each band, as shown in the table:

Band (MHz)	Footnotes identifying the band for IMT
450-470	5.286AA
698-960	5.312A, 5.313A; 5.317A
1 710-2 025	5.384A, 5.388
2 110-2 200	5.388
2 300-2 400	5.384A
2 500-2 690	5.384A
3 400-3 600	5.430A, 5.432A, 5.432B, 5.433A

Note: The band 3 400-3 600 MHz has not been identified for IMT in Region 2

- b) 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 ITU Radio Regulations;
- c) That Recommendation PCC.II/REC. 8 (IV-04) covers frequency arrangements for the bands 806-960 MHz, 1 710-1 885 MHz, 1 885-2 025 MHz, 2 110-2 200 MHz and 2 500-2 690 MHz, and new IMT frequency arrangements need to be recommended for the bands 450-470 MHz, 698-806 MHz, and 2 300-2 400 MHz in the Americas;
- d) That CITEL Recommendation PCC.III/REC.12 (III-95) “Designation of Spectrum for Personal Communications Systems in the Americas in the 2 GHz Band” recommends that PCS systems consider strategies for the evolution towards 3G;
- e) That CITEL Recommendation PCC.II/REC.7 (III-04) “Frequency Arrangements for Implementation of the Terrestrial Component of International Mobile Telecommunication 2000 (IMT-

¹ CCP.II-RADIO/doc. 2962/12 rev.2

2000) in the Bands 2500-2690 MHz” provides recommendations for planning the implementation of IMT-2000 in the band 2500-2690 MHz;

f) Recommendation PCC.II/REC. 30 (XVIII-11) “Frequency arrangements of the 698–806 MHz band in the Americas for broadband mobile services”.

g) Recommendation PCC.II / REC. 31 (XVIII-11) “Harmonized use of the 450-470 MHz band for fixed and mobile broadband wireless services particularly in underserved areas”.

h) That IMT, including IMT-2000 and IMT-Advanced, represents an opportunity for a major improvement in mobile or portable communication services for individuals or businesses which would be integrated into a variety of competing networks;

i) That spectrum arrangements should be defined which are technology neutral i.e. any of the proposed IMT technologies can be used in these bands;

j) That the bands identified for IMT should be considered on a global basis as a set, to achieve a comprehensive, global solution that will ensure that there is an approach that meets all requirements and that a significant level of interoperability is achieved;

k) That not only the harmonization work in ITU but also the harmonization work in CEPT and APT need to be taken into consideration in defining frequency arrangements;

l) That administrations should harmonize frequency arrangements to the greatest extent possible to facilitate worldwide compatibility, global roaming and create economies of scale;

m) That common frequency bands and duplex separation are desirable to enable economies of scale in the implementation of IMT networks;

n) That evolution from pre-IMT-2000 systems to IMT-2000 and IMT-Advanced is enabled by providing compatible frequency arrangements thus leading to flexible regulatory approach;

o) That indication of mobile transmit or base transmit operation does not preclude the use of these frequency bands for TDD applications;

p) That the IMT identified bands are shared on a co-primary basis with other Services, which should be protected accordingly, and

q) That CITEL members may have different requirements for the use of these bands,

RECOMMENDS:

1. That CITEL Member States consider identifying spectrum for IMT systems based on the following principles:

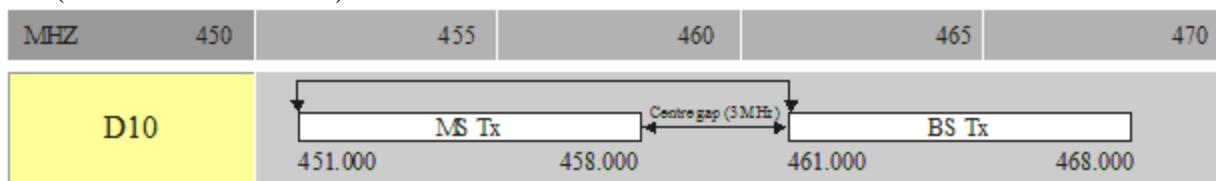
- a) Maximize harmonization of the IMT identified bands, within Region 2 as well as with Regions 1 and 3;
- b) Maximize harmonization with the global Base Transmit Bands;
- c) Facilitate global roaming and economies of scale.

2. That for the purpose of economies of scale and roaming, CITEL Member States that consider using only one part of one frequency band, take into account that channel pairing should be consistent with the duplex frequency separations of the full frequency arrangement corresponding to the selected arrangement.

3. That CITEL Member States consider selecting from the following frequency arrangements for the bands 450-470 MHz, 698-806 MHz, and 2 300-2 400 MHz in the Americas.

450-470 MHz:

For the new allocations in the 450-470 MHz administrations preferably adopt the frequency arrangement D10 (451-458/461-468 MHz) in Recommendation ITU-R M.1036-4:



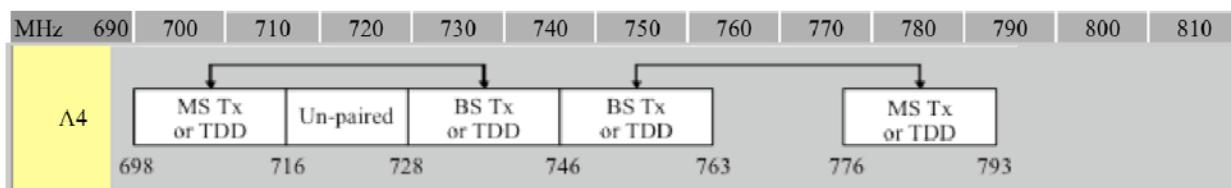
That those administrations that are unable to adopt the D10 frequency arrangement, preferably allocate two paired blocks of 7 MHz in the mentioned band, with 10 MHz duplex separation, this being the lowest frequency block for transmission from the mobile terminal and the higher frequency block for transmission from the base station;

698-806 MHz:

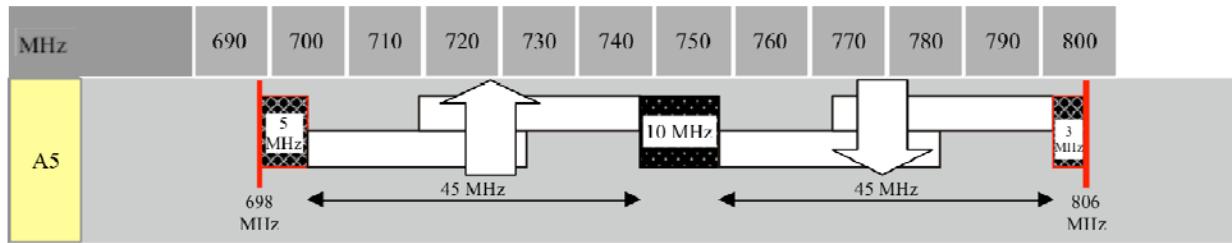
Source: Recommendation PCC.II/REC. 30 (XVIII-11)

That CITEL administrations that plan to use the 698 to 806 MHz band for broadband mobile services, consider for such segment the adoption of one of the channeling options specified in Recommendation ITU-R M.1036-4, including the related notes:

Option 1 (A4)



Option 2 (A5)



With the adoption, in any case, of the measures needed to protect the radio broadcasting service and ensure RFI compatibility among broadband mobile services.

2 300-2 400 MHz:

The recommended frequency arrangement for implementation of IMT in the band 2 300-2 400 MHz is for TDD as shown in the figure below:

