

FREQUENCY ARRANGEMENTS FOR THE IMPLEMENTATION OF THE TERRESTRIAL COMPONENT OF INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT) IN THE BANDS 24.25-27.5 GHZ, 37-43.5 GHZ, 45.5-47 GHZ, 47.2-48.2 GHZ, AND 66-71 GHZ, IDENTIFIED FOR IMT AT WRC-19

The 37th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) That the ITU Radio Regulations identify the band 24.25-27.5 GHz for use by administrations wishing to implement IMT, in accordance with No. **5.532AB** and [Resolution 242\(WRC-19\)](#);
- b) That the ITU Radio Regulations identify the band 37-43.5 GHz for use by administrations wishing to implement IMT, in accordance with No. **5.550B** and [Resolution 243 \(WRC-19\)](#), in particular noting the potential deployment of high-density applications in the fixed-satellite service in the frequency band 40-42 GHz (see No. **5.516B**);
- c) That the ITU Radio Regulations identify the band 45.5-47 GHz for use by some administrations wishing to implement IMT, in accordance with No. **5.553A** and [Resolution 244\(WRC-19\)](#);
- d) That the ITU Radio Regulations identify the band 47.2-48.2 GHz for use by administrations of Region 2 wishing to implement IMT, in accordance with No. **5.553B** and [Resolution 243\(WRC-19\)](#);
- e) That the ITU Radio Regulations identify the band 66-71 GHz for use by administrations wishing to implement IMT, in accordance with No. **5.559AA** and [Resolution 241\(WRC-19\)](#);
- f) [Recommendation PCC.II/REC. 46 \(XXV-15\)](#): "Guidelines for the establishment of agreements for the use of the spectrum in the coordination areas";
- g) [Recommendation PCC.II/REC. 44 \(XXIII-14\)](#): "Guidelines for the harmonization of measurement procedures in the technical verification of the use of the spectrum for coordination in border areas";
- h) That IMT encompasses IMT-2000, IMT Advanced and IMT-2020, as specified in [Resolution ITU-R 56-2](#) (2015);
- i) That [Recommendation ITU-R M.1036](#) "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;
- j) That within the scope of CITEL, the following recommendations related to the subject have been issued:
 - 1. [Recommendation PCC.II/REC. 7 \(III-04\)](#): "Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunication 2000 (IMT-2000) in the bands of 2500 – 2690 MHz", which provides recommendations for planning the implementation of IMT-2000 in the band 2500-2690 MHz;

¹ PCC.II-2021-37-5335r3

2. [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”;
3. [Recommendation PCC.II/REC. 30 \(XVIII-11\)](#): “Frequency arrangements of the 698–806 MHz band in the Americas for broadband mobile services”;
4. [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”;
5. [Recommendation PCC.II/REC. 32 \(XIX-12\)](#): “Frequency arrangements for the bands identified for International Mobile Telecommunications at WRC-07”;
6. [Recommendation PCC.II/REC. 34 \(XX-12\)](#): “Compatible frequency arrangements for terrestrial mobile systems in the bands 1 710 – 2 025 MHz and 2 110 – 2 200 MHz”;
7. [Recommendation PCC.II/REC. 54 \(XXIX-17\)](#): “Frequency arrangements for the terrestrial component of IMT in the bands 3300-3400 MHz, 3400-3600 MHz, and 3600-3700 MHz, or combinations thereof”;
8. [Recommendation PCC.II/REC. 55 \(XXIX-17\)](#): “Recommendation on frequency arrangements for IMT in the band 1 427-1 518 MHz”;
9. [Recommendation PCC.II/REC. 56 \(XXX-17\)](#): “Frequency arrangements for the terrestrial component of IMT in the band 614-698 MHz”;

k) That the harmonization of frequency arrangements generally facilitate compatibility, thereby producing economies of scale, and enabling global roaming;

l) That CITEL member states should take into account the need to facilitate coexistence between IMT and other applications of the mobile service, including other wireless access systems in these frequency bands,

RECOGNIZING:

a) That the identification of the frequency bands 24.25-27.5 GHz, 37-43.5 GHz, 45.5-47 GHz, 47.2-48.2 GHz, and 66-71 GHz for IMT does not preclude their use by any application of the services to which they are allocated and does not establish priority in the ITU Radio Regulations;

b) That depending on national realities, CITEL Member States may have different national priorities, policies, criteria, and requirements regarding the use of the various bands that are the subject of this recommendation or in part of them;

c) That, depending on national regulations, it may be necessary to apply, in all or part of the bands that are the subject of this recommendation, technical and operational measures aimed at ensuring coexistence and compatibility between the mobile service (the terrestrial component of IMT). and the fixed-satellite service;

d) That some countries in the Region use the 57-71 GHz band, or parts of it, on a license-exempt basis,

RECOMMENDS:

1. That CITEL Member States that plan to implement IMT in the bands 24.25 – 27.5 GHz, 37 – 43.5 GHz, 45.5 – 47 GHz, 47.2 – 48.2 GHz, 66 – 71 GHz or portions thereof, consider the following frequency arrangements for such implementation:

GHz	24.25	27.5
	5.532AB	
24.25-27.5	TDD	

GHz	37	43.5
	5.550B	
37-43.5	TDD	

GHz	45.5	47
	5.553A	
45.5-47	TDD	

GHz	47.2	48.2
	5.553B	
47.2-48.2	TDD	

GHz	66	71
	5.559AA	
66-71	TDD	

2. That CITEL Member States, when deploying IMT systems in the bands covered in this Recommendation, in accordance with the provisions of the ITU Radio Regulations, the applicable ITU Recommendations and their pertinent national regulations, ensure the coexistence with existing primary services in the bands;

3. That CITEL Member States develop bilateral or multilateral border coordination strategies, taking into account the *considerings* in this recommendation, as well as the relevant technical provisions of the ITU Radio Regulations.