



ORGANIZACION DE LOS ESTADOS AMERICANOS
ORGANIZATION OF AMERICAN STATES

Comisión Interamericana de Telecomunicaciones
Inter-American Telecommunication Commission

**28 MEETING OF THE PERMANENT
CONSULTATIVE COMMITTEE II:
RADIOCOMMUNICATIONS
November 29 to December 2, 2016
Bavaro, Punta Cana, Dominican Republic**

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FINAL REPORT

(Agenda Item: 7)

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FINAL REPORT

XXVIII MEETING OF THE PERMANENT CONSULTATIVE COMMITTEE II: RADIOCOMMUNICATIONS (PCC.II)

The 28 Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II) was held in Bavaro, Punta Cana, Dominican Republic, from November 29 to December 2, 2016.

I. FINAL REPORT OF THE PCC.II CHAIR (Document presented by the Chair of the PCC.II)

During the 28th meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II), the Alternate Chair conducted deliberations based on the Agenda items listed in document CCP.II-RADIO/doc. 4126/16 rev.2. Furthermore, the PCC.II working groups met according to the Schedule issued as document CCP.II-RADIO/doc. 4127/16 rev.5. The results of the activities held at the meeting can be summarized as follows:

1. Working Group on Preparation for Regional and World Radiocommunication Conferences (Document 4207)

The group and sub-working groups met twice, except for the SGT-4 which did not bring documents to this meeting. The total of documents considered was 36. As a result of the workings it can be highlighted that:

- Changes and recognition to the chapters' chairs for the 4 sub-working groups identified under the structure of the WRC. The updated list may be found in document 4204r1. Member States and Associated Members are encouraged to nominate individuals who may serve as spokespersons and their alternates, for those WRC agenda items that may be still missing those representatives.
- An informal Ad Hoc group was created to update Resolution 105 of the PCC.II and 16 points of view were added to document 4201.

2. Working Group on Terrestrial Fixed and Mobile Radiocommunication Services (Document 4208r1)

This group met 4 times and considered 19 contributions. Among the issues discussed were: activities report within the framework of the ITU-R, implementation of the IMTs in the region, future of the IMTs, critical infrastructure used by public utilities, public protection and attention in case of disasters, and spectrum management.

3. Working Group on Satellite Systems to Provide Fixed and Mobile Services

This group considered 9 documents: 7 documents were informative and two were related to decisions approved. As a result, an agreement was reached on Decision PCC.II/DEC. 185 (XXVII-16).

4. Working Group on Broadcasting

6 documents were considered and it was agreed to extend the current work plan until the next meeting on 2017.

5. Ad Hoc Group to update the Inter-American Convention on an International Amateur Radio Permit (IARP)

The group met three times in response to the mandate of the Chair. Two documents were analyzed and discussed. The issues were considered having been discussed sufficiently in depth, therefore ending the workings of the group.

6. Issues to be highlighted

I highlight and call your attention to the following commitments towards the 29th meeting of the PCC.II to be held in Orlando, Florida, as indicated below:

1. The next Meeting of the PCC.II will be held from June 27 to 30, 2017 in Orlando, Florida, United States of America, thanks to the generous invitation of that Government.
2. An Ad-Hoc Group to update the procedure for Inter-American Proposals and the creation of the procedure for Inter-American Contributions (IAC) was created; PCC.II/DEC.188 (XXVIII-16).
3. The deadline to receive answers on Decision 183: “QUESTIONNAIRE ON USAGE AND FUTURE PLAN OF FREQUENCY BANDS UNDER STUDY IN AGENDA ITEM 1.13 OF WRC-19, IN THE AMERICAS REGION” was extended, until two months prior to the 29th meeting of the PCC.II, that is, until April 30, 2017.
4. The deadline to receive additional answers to decision PCC.II/DEC. 185 (XXVII-16) “REGARDING A QUESTIONNAIRE TO STUDY THE CONTINUAL MONITORING, CONTROL AND PROTECTION OF THE CRITICAL INFRASTRUCTURE USED BY UTILITIES” was extended, until two months prior to the 29th meeting of the PCC.II, that is, until April 30, 2017.
5. The deadline to receive additional answers to decision PCC.II/DEC. 186 (XXVII-16) “QUESTIONNAIRE ABOUT THE REGULATORY PROCEDURES APPLICABLE TO SMALL SATELLITES, NANOSATELLITES, AND PICOSATELLITES” was extended, until two months prior to the 29th meeting of the PCC.II, that is, until April 30, 2017.
6. The deadline to receive additional answers to decision PCC.II/DEC. 187 (XXVII-16) “QUESTIONNAIRE ON THE IMPLEMENTATION OF A BROADCASTING POLICY”, was extended, until two months prior to the 29th meeting of the PCC.II, that is, until April 30, 2017.

EXPLANATORY NOTE: Some of the working groups performed their activities with the understanding that the final report of the 27 Meeting of the PCC.II was document 4123 available in the collaborative space. Nevertheless, the right version of the final report of that Meeting is actually document 4123c1 that may be found in the CITEL website in PDF format (https://www.citel.oas.org/en/SiteAssets/PCCII/Final-Reports/CCPII-2016-27-4123c1_i.pdf). This is why the numbering of the Decisions (as listed above) subject to extension of deadlines differs to that established by the Plenary.

II. AGENDA¹

1. Approval of the agenda and calendar.
2. Appointment of the Drafting Group for the Final Report.
3. Meeting of the Working Groups on:
 - 3.1 Working Group on Preparation for Regional and World Radiocommunication Conferences.
 - 3.2 Working Group on Terrestrial Fixed and Mobile Radiocommunication Services.
 - 3.2.1. Sub-working group on Spectrum Management
 - 3.3 Working Group on Satellite Systems to Provide Fixed and Mobile Services.
 - 3.4 Working Group on Broadcasting.
 - 3.5 Ad Hoc Group to update the Inter-American Convention on an International Amateur Radio Permit (IARP).
4. Agenda, Venue and Date of the next Meeting of PCC.II.
5. Other matters.
6. Approval of the Final Report of the Meeting.

III. MEETING OFFICERS

JOINT OPENING SESSION OF COM/CITEL – PCC.II

Chair of the COM/CITEL:	Mr. José del Castillo Saviñon (Dom. Rep)
Alternate Vice Chair of COM/CITEL:	Mrs. Katrina Naut (Dom. Rep)
Alternate Vice Chair of COM/CITEL:	Mrs. Solana de Aspiazu (Argentina)
Alternate Vice Chair of CCP.II:	Mr. Franklin Merchán (Colombia)
Vice Chair of CCP.II:	Mr. Héctor Budé (Uruguay)
Vice Chair of CCP.II:	Mr. Héctor Valdez (Mexico)
Vice Chair of CCP.II:	Mrs. Yesenia Vado (Nicaragua)
Executive Secretary of CITEL:	Mr. Oscar León
Director, ITU Radiocommunication Bureau: Organization of American States (OAS):	Mr. François Rancy Mrs. Aracelly Azuara

FIRST PLENARY SESSION OF PCC.II

Alternate Vice Chair of CCP.II:	Mr. Franklin Merchán (Colombia)
Vice Chair of CCP.II:	Mr. Héctor Budé (Uruguay)
Vice Chair of CCP.II:	Mr. Héctor Valdez (Mexico)

¹ CCP.II-2016-28-4126r2_e

Vice Chair of CCPII:
Executive Secretary of CITEL:

Mrs. Yesenia Vado (Nicaragua)
Mr. Oscar León

Drafting Group:

Chair: Mr. Osiris Sosa (Dom. Rep.)
Delegates: Mr. William Zambelli (Brazil)
Mrs. Maria Greeves (United States)
Mr. Marc Girouard (Canada)

IV. RESOLUTIONS

PCC.II/RES. 113 (XXVIII-16)²

AGENDA, VENUE AND DATE FOR THE 29 MEETING OF PCC.II

The 28th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

RESOLVES:

1. To hold the 29th. Meeting of PCC.II from June 27 to 30, 2017 in Orlando, Florida, United States of America.
2. To approve the draft agenda for the 28 that is attached as an Annex.

ANNEX TO RESOLUTION PCC.II/RES. 113 (XXVIII-16)

1. Approval of the agenda and calendar.
2. Appointment of the Drafting Group for the Final Report.
3. Meeting of the Working Groups on:
 - 3.1 Working Group on Preparation for Regional and World Radiocommunication Conferences.
 - 3.1.1 CREATION OF AN *AD-HOC* GROUP FOR THE UPDATING OF THE PROCEDURE OF INTER-AMERICAN PROPOSALS (IAP) AND CREATION OF PROCEDURE FOR INTER-AMERICAN CONTRIBUTIONS (IAC)
 - 3.2 Working Group on Terrestrial Fixed and Mobile Radiocommunication Services.
 - 3.2.1. Sub-working group on Spectrum Management
 - 3.3 Working Group on Satellite Systems to Provide Fixed and Mobile Services.

² CCPII-2016-28-4213r1_e

- 3.4 Working Group on Broadcasting.
- 4. Update of the Inter-American Convention on an International Amateur Radio Permit (IARP)
- 5. PCC.II Strategic Plan.
- 6. Agenda, Venue and Date of the next Meeting of PCC.II.
- 7. Other matters.
- 8. Approval of the Final Report of the Meeting.

DRAFT AGENDAS OF WORKING GROUPS

3.1 Working Group on the preparation of CITEL for Regional and World Radiocommunication Conferences

- 1. Presentation and approval of the agenda.
- 2. Working methods.
- 3. Preparation for the Radiocommunications Assembly (RA-19) and the World Radiocommunication Conference (WRC-19).
 - 3.1. Update of WRC-19 preparations.
- 4. Report of chapter chairpersons and CITEL representatives.
- 5. Consideration of issues resulting documents submitted through the collaborative space.
- 6. Work Plan.
- 7. Other matters.

3.2 Working Group on Terrestrial Fixed and Mobile Radiocommunication Services

- 1. Approval of the agenda.
- 2. Report on ITU-R activities.
- 3. IMT implementation
- 4. Compatibility studies
- 5. Sub-Working Group of Spectrum management.
- 6. Work Plan.
- 7. Other business.

3.3 Working Group on Satellite Systems to Provide Fixed and Mobile Services

- 1. Approval of the agenda.
- 2. Implementation of regulations that facilitate deployment of satellite services.
- 3. Harmful interference from unauthorized transmissions in satellite networks.
- 4. C and Ku band use, operation and applications.
- 5. Existing databases on satellite systems.
- 6. Operation of satellite services with no authorization.
- 7. Work Plan.
- 8. Other business. (if possible, it would be a plus trying to explore how to address any of the following topics):
 - 8.1 Use and operation of satellite bands in addition to C and Ku bands;

- 8.2 Regulations and operation of small satellites (picosatellites, nanosatellites, cubesats);
- 8.3 Use of new technologies;
- 8.4 Compatibility between satellite services (fix and mobile) and terrestrial fix and mobile services;
- 8.5 Use of bands authorized for amateur service by amateurs via satellite.

3.4 Working Group on Broadcasting

- 1. Opening remarks.
- 2. Approval of the agenda.
- 3. Consideration of the inputs documents on:
 - 3.1 Digital Television.
 - 3.2 Digital Sound Broadcasting.
 - 3.3 Spectrum Usage and New Technologies for Broadcasting.
 - 3.4 Rio Janeiro 1981 Agreement.
- 4. Work Plan.
- 5. Other business.

V. RECOMMENDATIONS

ISSUING OF UPDATE OF RECOMMENDATION 49^{3 4}

PCC.II/REC.49 Rev. 1 (XXVIII-16)

PUBLIC PROTECTION AND DISASTER RELIEF (PPDR) BASED ON INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT) SYSTEMS

The 28 Meeting of Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) That Public Protection and Disaster Relief (PPDR) systems based on International Mobile Telecommunications (IMT) technology have a fundamental role to play to respond with efficacy and efficiency to public, national and international objectives for PPDR;
- b) That many administrations wish to promote inter-operability and inter-functioning among systems utilized for public protection and relief operations, both at the national level as well as for cross-border operations in situations of emergency and relief operations;
- c) That in resolves 1 of Resolution 646 (Rev. WRC - 15) “Public protection and disaster relief” administrations are encouraged to use harmonized frequency ranges for PPDR to the maximum extent possible, taking into account the national and regional requirements and also having regard to any needed consultation and cooperation with other concerned countries;
- d) That Recommendation ITU-R M.1036 provides guidance on the selection of transmitting and receiving frequency arrangements for the terrestrial component of IMT systems as well as the arrangements themselves, with a view to assisting administrations on spectrum-related technical issues relevant to the implementation and use of the terrestrial component of IMT in the bands identified in the RR and administrations may implement any of the recommended frequency arrangements, in all or in part, to suit their national conditions;
- e) That some administrations have made decisions to deploy broadband PPDR communications in the 700 MHz band, which is within the range 694-894MHz identified by WRC-15⁵, and wish to promote harmonization given the inherent benefits;

³ The original version of Recommendation 49 was approved on July 1, 2016, by the 27 Meeting of the PCC.II, held in Bogota, Colombia, which replaced recommendation 41 of the 22 Meeting of the PCC.II.

⁴ CCP.II-RADIO/doc. 4220/16 rev. 1

⁵ See Resolve 2 of Resolution 646 (Rev. CMR-15).

f) That much of the band 806-824 / 851-869 MHz is used for trunking systems in most countries in the Americas according to Recommendation PCC.III / REC. 28 (VI-96);

g) That in some countries, Specialized Mobile Radio systems (SMR for its acronym in English or ESMR) use parts of the band 806-824 / 851-869 MHz, and that some of these systems are used to provide a similar cellular service,

RECOGNIZING:

a) The benefits of spectrum harmonization, such as a greater potential for interoperability, a broader industrial base and a larger volume of material resulting from economies of scale and greater availability of equipment, improved spectrum management and planning, and greater cross-border coordination and circulation of equipment;

b) That there are CITELE administrations that are already implementing broadband PPDR applications based on IMT systems, either in dedicated spectrum or shared spectrum with commercial networks;

c) That Recommendation ITU-R M.2015 provides guidance on frequency arrangements for Public Protection and Disaster Relief;

d) That Report ITU-R M.2291 provides details on the broadband capabilities of IMT to meet the requirements of applications supporting PPDR operations,

TAKING NOTE:

a) Of Report ITU-R M.2377, “Radiocommunication objectives and requirements for Public Protection and Disaster Relief (PPDR)”,

EMPHASIZING:

a) That it is the prerogative of each administration to define the adequate usage of the frequency bands contained in this Recommendation, as well as the mechanism for the concession of spectrum licenses for deployment of IMT networks to satisfy the broadband PPDR needs;

b) That in the context of this Recommendation, the term “frequency range” means a range of frequencies over which relevant radio equipment is envisaged to be capable of operating, but limited to specific frequency band(s) according to national conditions and requirements, and should not be understood as the spectrum requirements for PPDR applications,

RECOMMENDS:

1. That CITELE administrations that wish to deploy broadband networks for Public Protection and Disaster Relief (PPDR) in parts of the frequency range 698-894 MHz consider the following frequency arrangements:

1.1. 703-748/758-803 MHz⁶

1.1.1. In administrations that wish to define a particular frequency range for PPDR, it is recommended to preferably use the lower portion of this band.

1.2. 758-768/788-798 MHz⁷ ;

1.3. 807-824/852-869 MHz⁸ ;

1.4. 814-824/859-869 MHz⁹ ;

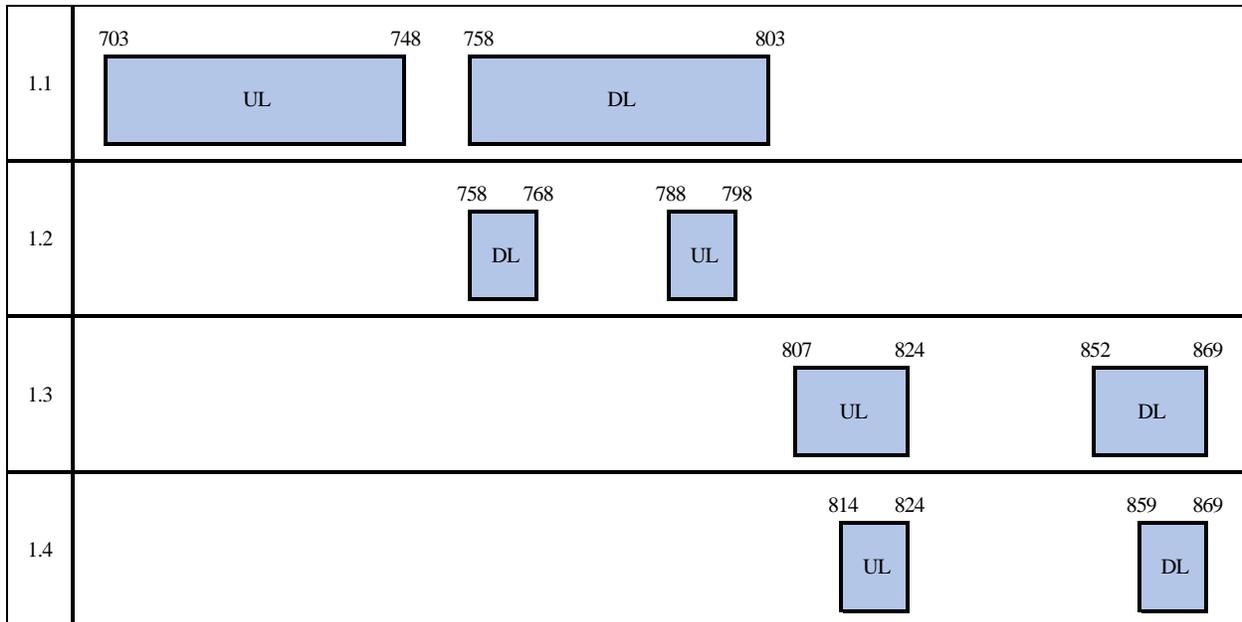


Figure 1. Recommended frequency arrangements for broadband PPDR based on IMT systems

2. To update Recommendation CITES PCC.II/REC.49 (XXVII-16) with Recommendation CITES PCC.II/REC.49 Rev. 1 (XXVIII-16).

⁶ A5 arrangement of the most recent version of Recommendation ITU-R M.1036 (3GPP operating band 28).

⁷ 3GPP operating band 14.

⁸ The lower portions of the arrangement 2 in Recommendation PCC.II/REC. 35 (XX-12) (3GPP operating band 27).

⁹ The lower 10 +10 MHz of 3GPP operating band 26.

**SIMPLIFICATION OF ADMINISTRATIVE PROCESS FOR AMATEUR AND AMATEUR
SATELLITE SERVICE**

The 28th Meeting of Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) That ITU Radio Regulations, Article 1.56, defines the amateur service as “A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest”;
- b) That ITU Radio Regulations, Article 1.57, defines the amateur-satellite service as: “A radiocommunication service using space stations on earth satellites for the same purposes as those of the amateur service”;
- c) That amateur and amateur-satellite stations provide valuable public service in the establishment of local, regional and international emergency communications in non-pecuniary basis;
- d) That amateur and amateur-satellite services provide valuable educational and vocational STEM (Science, Technology, Engineering and Mathematics) activity for youngsters and citizens;
- e) That amateur and amateur-satellite services provide valuable training activities on telecommunications techniques and operational practical knowledge;

EMPHASIZING:

- a) That certain minimum operator operational and technical qualifications are necessary for proper operation of an amateur or amateur-satellite station as specified by ITU Radio Regulations, Article 25.6, with basic syllabus provided by Recommendation ITU-R M.1544;
- b) That Recommendation ITU-R M.1043 encourages administrations to facilitate the amateur and amateur-satellite services to develop radio operator skills, exchange technical information and experiment with new technologies;
- c) That ITU Radio Regulations, Article 25.9A, encourages administrations to take necessary steps to allow amateur stations to prepare for and meet communications needs in support of disaster relief;
- d) That Recommendation ITU-R M.1042 encourages administrations to develop amateur and amateur-satellite service networks capable of providing radiocommunications in the event of natural disasters;
- e) That Recommendation ITU-D 13 encourages administrations to reduce and remove barriers to the effective utilization of the amateur services for disaster communications and related training activities;
- f) That Recommendation ITU-R M.1043 also encourages administrations to, where possible, alleviate or remove barriers to strengthen transborder cooperation between states in a way to facilitate the rapid

¹⁰ CCP.II-2016-28-4172/16r3

deployment and effective use of telecommunication resources – including amateur service - supporting disaster relief operations;

NOTING:

l) That ITU Handbook on Amateur and Amateur-Satellite Services provides basic information to the administrations with existing relevant ITU texts;

m) That Inter-American Convention on the International Amateur Radio Permit (IARP) and CEPT Recommendation TR61/01 provide support for mutual recognition of amateur service licenses;

RECOMMENDS:

1. That CITELE administrations take measures to keep, update or implement simplified legal, technical and administrative treatments to amateur and amateur-satellite services with reduced costs and reasonable requirements, congruent with its voluntary and non-pecuniary nature, taking into account the definitions and characteristics of the service, ITU regulations and respective recommendations;

2. That CITELE administrations take measures to verify the operational and technical qualifications of any person wishing to operate an amateur station;

3. That CITELE administrations take measures to keep, update or implement specific regulations to Amateur Service and Amateur Satellite Service, in accordance with ITU regulations and recommendations.

4. That CITELE administrations take measures to consider international conventions, treaties, agreements and recommendations on mutual recognition of amateur service licenses and facilitate the temporarily operation within their respective countries of foreign amateurs duly licensed in their countries of origin, particularly in the case of disasters and/or natural catastrophes.

VI. DESICIONS

PCC.II/DEC. 188 (XXVIII-16) ¹¹

CREATION OF AN AD-HOC GROUP FOR THE UPDATING OF THE PROCEDURE OF INTER-AMERICAN PROPOSALS (IAP) AND CREATION OF PROCEDURE FOR INTER-AMERICAN CONTRIBUTIONS (IAC)

The 28th Meeting of the Permanent Consultative Committee II: Radiocommunications (CCP.II)

DECIDES

1. To create an Ad-Hoc Group to update the procedure for Inter-American Proposals and the creation of the procedure for Inter-American Contributions (IAC).
2. To designate Mr. José de Jesús Arias Franco (jose.arias@ift.org.mx) from the administration to preside this group and to compile the information presented by the Member States.
3. For the group to develop and conclude during the 29th and 30th Meetings of the CCP.II
4. To instruct the president of the group to prepare and remit a report to the preparatory work group for the World Radiocommunications Conference reflecting the work undertaken.

¹¹ CCPII-2016-28-4221r1_e

VII. LIST OF BASIC DOCUMENTS

1. Summary Minutes of the Inaugural Session and First Plenary Session	CCP.II-RADIO/doc. 4212/16 rev.1
2. Summary Minutes of the Second Plenary Session and of the Closing Plenary Session	CCP.II-RADIO/doc. 4222/16
3. Report of Working Group on Preparation for Regional and World Radiocommunication Conferences	CCP.II-RADIO/doc. 4207/16
4. Report of Working Group on Terrestrial Fixed and Mobile Radiocommunication Services	CCP.II-RADIO/doc. 4208/16 rev.1
5. Report of Working Group on Satellite Systems to Provide Fixed and Mobile Services	CCP.II-RADIO/doc. 4209/16 rev.1
6. Report of Working Group on Broadcasting	CCP.II-RADIO/doc. 4210/16
7. Report of the Ad Hoc Group to update the Inter-American Convention on an International Amateur Radio Permit (IARP.)	CCP.II-RADIO/doc. 4211/16
8. List of Documents	CCP.II-RADIO/doc. 4124/16 rev.2
9. List of Participants	CCP.II-RADIO/doc. 4125/16 rev.2
10. Final Report of the Meeting	CCP.II-RADIO/doc. 4223/16 rev.1