



**ORGANIZACION DE LOS ESTADOS AMERICANOS
ORGANIZATION OF AMERICAN STATES**

**Comisión Interamericana de Telecomunicaciones
Inter-American Telecommunication Commission**

**35 MEETING OF PERMANENT
CONSULTATIVE COMMITTEE II:
RADIOCOMMUNICATIONS
May 11, 2020
*Virtual meeting***

**OEA/Ser.L/XVII.4.2.35
CCP.II-RADIO/doc. 5147/20 cor.1
19 May 2020
Original: Spanish**

**FINAL REPORT
(Item on the Agenda: 7)
(Document submitted by CITEI Secretariat)**

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FINAL REPORT

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

The 35 Meeting of Permanent Consultative Committee II: Radiocommunications (PCC.II) was held virtually, on May 11, 2020.

I. MEETING OFFICERS

Chair of PCC.II	Mr. Mario Germán Fromow Rangel (Mexico)
Alternate Chair of PCC.II:	Mr. José Arias (Mexico)
Vice Chair of PCC.II:	Mr. Héctor Budé (Uruguay)
Vice Chair of PCC.II:	Mr. Agostinho Linhares de Souza (Brazil)
Vice Chair of PCC. II:	Sr. Carlos Eduardo Valle (El Salvador)
CITEL Executive Secretary:	Mr. Oscar León

Drafting Group:

Chairperson:	Diana Gomez (Mexico)
Members:	Hugo Segovia (Uruguay) Sandra Wright (USA)

II. REPORT OF THE PCC.II CHAIR

During the 35 meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II), the Chair and the Executive Secretary of CITEL conducted deliberations based on the Agenda items listed in document PCC.II-RADIO/doc. 5127/20. Furthermore, the PCC.II working groups met according to the schedule issued as document PCC.II-RADIO/doc. 5128/20. The results of the activities held at the meeting can be summarized as follows:

1. Working Group Relative to CITEL's Preparation for World Radiocommunication Conferences.

This Group met once. During the meeting 9 documents were considered. The group's agenda was issued as document PCC.II-RADIO/doc. 5141/20.

The Report by the Chair with all the details was issued as document PCC.II-RADIO/doc. 5145/20.

2. Working Group on Terrestrial Services

Since the 35 Meeting of PCC.II concentrated in the work for the preparation of the 2023 World Radiocommunication Conference (WRC-19), this Working Group did not receive documents related to draft Decision, Resolution or Recommendation, and / or of an informative nature, which is why it did not hold any session and, consequently, there is no report of the respective President.

3. Working Group on Spectrum Management

The Chair of the working group presented document PCC.II-RADIO / doc. 5138/20. Which is an informative document that was reviewed during the plenary session. For this reason, it did not hold any session, therefore, there is no report of the respective President.

4. Working Group on Radio Broadcasting

Since the 35 Meeting of PCC.II concentrated in the work for the preparation of the 2023 World Radiocommunication Conference (WRC-19), this Working Group did not receive documents related to draft Decision, Resolution or Recommendation, and / or of an informative nature, which is why it did not hold any session and, consequently, there is no report of the respective President.

5. Working Group on Satellite Systems and Science Services

Since the 35 Meeting of PCC.II concentrated in the work for the preparation of the 2023 World Radiocommunication Conference (WRC-19), this Working Group did not receive documents related to draft Decision, Resolution or Recommendation, and / or of an informative nature, which is why it did not hold any session and, consequently, there is no report of the respective President.

6. Working Group to Coordinate Strategic Initiatives of the OAS related to Radiocommunications

Since the 35 Meeting of PCC.II concentrated in the work for the preparation of the 2023 World Radiocommunication Conference (WRC-19), this Working Group did not receive documents related to draft Decision, Resolution or Recommendation, and / or of an informative nature, which is why it did not hold any session and, consequently, there is no report of the respective President.

7. Ad Hoc Group on “Resolutions, Decisions and Recommendations of PCC.II”

The Chair of the working group presented document PCC.II-RADIO / doc. 5136/20. Which is an informative document that was reviewed during the plenary session. For this reason, it did not hold any session, therefore, there is no report of the respective President.

8. Issues to be highlighted

1. The next (36) Meeting of the PCC.II will be held from November 30 to December 4, 2020, and no later than August 30, 2020, the Chair of the PCC.II will inform about the place, virtual or physical, in which the 36th Meeting of PCC.II will be held.

III. AGENDA¹

1. Approval of the agenda and schedule.
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 *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.
 - 3.3 Working group on Spectrum Management
 - 3.4 Working Group on Satellite Systems and Science Services.
 - 3.5 Working Group on Broadcasting.
 - 3.6 Working Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications
 - 3.7 *Ad Hoc* Group on “PCC.II Resolutions, Decisions and Recommendations”
4. PCC.II Strategic Plan.
5. Agenda, Venue and Date of the next Meeting of PCC.II.
6. Other matters.
7. Approval of the Final Report of the Meeting.

¹ PCC.II-2018-35-5127_i

DRAFT AGENDAS OF THE 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-23) and the World Radiocommunication Conference (WRC-23).
 - 3.1 Update of WRC-23 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 Spectrum Management

1. Presentation and approval of the Agenda.
2. Follow-up on the activities and studies carried out within the ITU by Study Group 1 and Study Group 3 of the ITU-R.
3. Exchange of relevant information and best practices among CITEL Members on aspects regarding spectrum management and affordable and widespread access to ICTs.
4. Presentation of contributions.
5. Work Plan.
6. Other business.

3.4 Working Group on Satellite Systems and Science 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 (fixed and mobile) and terrestrial fixed and mobile services;
- 8.5 Use of bands authorized for amateur service by amateurs via satellite.

3.5 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.

3.6 Working Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications

- 1. Approval of the agenda.
- 2. Work Plan.
- 3. Other business.

3.7 *Ad Hoc* Group on “PCC.II Resolutions, Decisions and Recommendations”

- 1. Approval of the agenda.
- 2. Work Plan.
- 3. Other business.

IV. RESOLUTIONS

PCC.II/RES. 135 (XXXV-20)²

AGENDA, VENUE AND DATE OF THE 36 MEETING OF PCC.II

The 35 Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) The challenging situation that the world is facing due to the COVID-19 virus pandemic;
- b) How uncertain the development and control of the COVID-19 virus may be in the remainder of 2020;
- c) The different actions that Member States and Associate Members have taken to stop the spread of the virus;
- d) That the 35th. Meeting of PCC.II was held in an exceptional manner in a virtual venue to deal with the most urgent topics.

RESOLVES:

- 1. To hold the 36th. Meeting of PCC.II in Mexico from November 30 to December 4, 2020;
- 2. To request the Chair of the CCP. II to inform, no later than August 30, 2020, about the place, virtual or physical, in which the 36th Meeting of PCC.II will be held;
- 3. To approve the draft agenda for the 36 Meeting of PCC.II, attached in the annex of this resolution.

ANNEX TO RESOLUTION PCC.II/RES. 135 (XXXV-20)

DRAFT AGENDA

- 1. Approval of the agenda and schedule.
- 2. Appointment of the Drafting Group for the Final Report.

² PCC.II-2018-35-5143_i

3. Meeting of the Working Groups on:
 - 3.1 Working Group Relative to CITEL's Preparation for World Radiocommunication Conferences
 - 3.2 Working Group on Terrestrial Services
 - 3.3 Working Group on Spectrum Management
 - 3.4 Working Group on Satellite Systems and Science Services
 - 3.5 Working Group on Radio Broadcasting
 - 3.6 Working Group to Coordinate Strategic Initiatives of the OAS related to Radiocommunications
 - 3.7 Ad Hoc Group on "Resolutions, Decisions and Recommendations of PCC.II"
4. PCC.II Strategic Plan.
5. Agenda, Venue and Date of the next Meeting of PCC.II.
6. Other matters.
7. Approval of the Final Report of the Meeting.

DRAFT AGENDAS OF THE WORKING GROUPS

3.1 Working Group Relative to CITEL's Preparation for World Radiocommunication Conferences

1. Presentation and approval of the agenda.
2. Working methods.
3. Preparation for the Radiocommunications Assembly (RA-23) and the World Radiocommunication Conference (WRC-23).
 - 3.1 Update of WRC-23 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 Services

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

3.3 Working Group on Spectrum Management

1. Presentation and approval of the Agenda.
2. Follow-up on the activities and studies carried out within the ITU by Study Group 1 and Study Group 3 of the ITU-R.

3. Exchange of relevant information and best practices among CITELE Members on aspects regarding spectrum management and affordable and widespread access to ICTs.
 - a. Presentation of contributions.
4. Work Plan.
5. Other business.

3.4 Working Group on Satellite Systems and Science 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:
 - 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 (fixed and mobile) and terrestrial fixed and mobile services;
 - 8.5 Use of bands authorized for amateur service by amateurs via satellite.

3.5 Working Group on Radio Broadcasting

1. Approval of the agenda.
2. Consideration of the inputs documents on:
 - 2.1 Digital Television.
 - 2.2 Digital Sound Broadcasting.
 - 2.3 Spectrum Usage and New Technologies for Broadcasting.
 - 2.4 Rio Janeiro 1981 Agreement.
3. Work Plan.
4. Other business.

3.6 Working Group to Coordinate Strategic Initiatives of the OAS related to Radiocommunications

1. Approval of the agenda.
2. Work Plan.
3. Other business.

3.7 Ad Hoc Group on “Resolutions, Decisions and Recommendations of PCC.II”

1. Approval of the agenda.
2. Work Plan.
3. Other business.

WORKSHOP

“DYNAMIC SPECTRUM MANAGEMENT: BEST PRACTICES AND NEW OPPORTUNITIES”

The 35 Meeting of the Permanent Consultative Committee II: Radiocommunications,

CONSIDERING:

- a) The mandates set in the Strategic Plan for the period 2018-2022, approved by Resolution CITEL/Res. 85 (VII-18) at the VII Regular Meeting of the Assembly of CITEL and in particular the mandates “(2) *Discuss and share innovative practices in efficient spectrum management*” and “(4) *Promote research and development of new technologies that enables the implementation of radiocommunication networks and services with a more efficient use of spectrum*”.
- b) That digital inclusion and digital transformation are key to economic growth and societal development. In addition to the traditional digital inclusion efforts, new innovative, affordable and sustainable connectivity schemes could be considered by the Administrations to give broadband access to those that still remain unconnected.
- c) That the dynamic spectrum management technologies have the potential to complement and provide alternative solutions in countries throughout the Americas region, including developing and least developed countries, and achieve the goals of connectivity in CITEL Administrations;
- d) That some CITEL Administrations have expressed interest in additional information about existing dynamic spectrum management technologies, considered frequency bands, regulatory frameworks that enable their use, practical experiences in the implementation of regulatory frameworks and the future challenges all over the world.

RECOGNIZING:

- a) That consumer demand for wireless connectivity is surging, but spectrum is a finite resource. This creates an opportunity to consider mechanisms to enable sharing of underused frequency bands and dynamic spectrum management techniques are an approach for this;
- b) The importance of unlicensed spectrum access and in particular Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) in support of national telecommunications and connectivity plans in the region;
- c) The ongoing work of the PCC-II Working Group on Spectrum Management;
- d) The usefulness of workshops as an effective information exchange mechanism to focus attention on important current and emerging topics and to increase the level of understanding of CITEL Administrations;

³ PCC.II-2018-35-5135r1_i

- e) That there are some Administrations inside and outside Region 2 that have had practical experiences with dynamic spectrum management and that it will be valuable to learn about their experiences;
- f) That it will be beneficial to have a presentation from the ITU-R about the subject;
- g) That information presented in CITEL workshops constitutes important background and a reference for other international and regional organizations,

RESOLVES:

1. To hold a seminar at the 36th Meeting of PCC.II, on activities related to dynamic spectrum management in the Americas region, with a maximum duration of half a day;
2. That the workshop contemplates topics related to dynamic spectrum sharing, such as new technologies and considered frequency bands for dynamic management, practical experiences in the implementation of regulatory frameworks, discussions about spectrum management policies and challenges for new regulatory framework for dynamic spectrum access in the Americas region;
3. To hold the workshop pursuant to Resolution PCC.III/RES.86 (XII-99), entitled “Procedures for the Organization of Seminars,” noting in particular that it would be held at no cost to CITEL;
4. To appoint Mrs. Martha Suarez of DSA (email: martha.suarez@dynamicsspectrumalliance.org, Tel + 57 317 517 9455) as the coordinator of the workshop.

REQUESTS:

1. The Executive Secretary of CITEL to invite the ITU-R to participate in the workshop presenting a keynote about the subject.

INVITES:

1. CITEL Administrations to participate in this workshop in order to share and exchange experiences, which will help ensure the success of the workshop;
2. Experts on dynamic spectrum management techniques to provide presentations during the workshop;
3. Member States and Associate Members of CITEL interested in participating in the workshop to contact the coordinator of the workshop.

ATTACHMENT 1

DRAFT AGENDA WORKSHOP

“DYNAMIC SPECTRUM MANAGEMENT: BEST PRACTICES AND NEW OPPORTUNITIES”

8:00 – 8:20	<i>OPENING SESSION</i> <ul style="list-style-type: none"> • Mario Fromow, IFT Commissioner (Mexico) / Chair of PCC.II • Oscar León, Executive Secretary of CITEL
8:20 – 8:40	<i>Keynote Speaker:</i> Mario Maniewicz - ITU – How is spectrum sharing and dynamic spectrum management are reflected in the Radio Regulations and ITU-R vision.
08:40 - 10:00	<i>PART I - DIAGNOSIS: PANEL ABOUT THE DIFFERENT TYPES OF DYNAMIC SPECTRUM MANAGEMENT APPROACHES, CONSIDERED FREQUENCY BANDS AND PRACTICAL EXPERIENCES</i> Moderated by Martha Suarez, DSA Panelists: <ul style="list-style-type: none"> • Representative of Facebook (Invited) • Representative of Microsoft (Invited) • Representative of Loon (Invited) • Representative of Intel (TBC) • Representative of Nokia (TBC)
10:00 – 10:15	Break
10:15 – 11:30	<i>PART II – EXPERIENCES AND DEMO OF INNOVATIVE FRAMEWORKS FOR SPECTRUM SHARING IN THE USA, BRAZIL AND COLOMBIA</i> USA - Keynote Speaker: Dante Ibarra - FCC (Invited) Brazil – Keynote Speaker: Agostinho Linhares – ANATEL (Invited) Colombia - Keynote Speaker: Miguel Felipe Anzola - ANE (Invited) Demo about Spectrum Access Systems – SAS and/or AFC Representative from Google, Federated Wireless or CommScope - TBC Q&A
11:30 - 12:40	<i>PART III – SPECTRUM MANAGEMENT POLICIES AND REGULATORY</i>

	<p>FRAMEWORK FOR DYNAMIC SPECTRUM MANAGEMENT IN THE AMERICAS</p> <p>Keynote Speakers: Carol Sosa, Colombia and Carolina Jacquet, Paraguay (Invited) Presentation of the results of the activities of the PCC.II Spectrum Management Group about unlicensed bands in the Americas.</p> <p>Spectrum Authorities panel Panelists:</p> <ul style="list-style-type: none"> • José Arias, Mexico (Invited) • Agostinho Linares, Brazil (Invited) • Representative of Trinidad & Tobago - TBC • Representative of Canada - TBC • Representative of Argentina - TBC • Representatives of USA - TBC (FCC, NTIA)
12:40 - 12:45	CLOSING CEREMONY

V. DESICIONS

PCC.II/DEC. 210 (XXXV-20)⁴

RECOGNITION OF THE CHAIRS, VICE CHAIRS, AND COORDINATORS OF THE WORKING GROUP FOR THE PREPARATION OF CITEL FOR THE 2019 WORLD RADIOCOMMUNICATION CONFERENCE

The 35 Meeting of Permanent Consultative Committee II: Radiocommunications including Broadcasting (PCC.II),

DECIDES:

1. To instruct the Executive Secretary to forward a communication to:
 - a) The administrations of United States of America, Mexico and Colombia expressing the recognition, congratulations, and appreciation of Permanent Consultative Committee II for the excellent work done by Mr. Carmelo Rivera, as Chair, by Mr. Víctor Manuel Martínez, and by Ms. Carol Andrea Sosa Leguizamón as Vice Chairs, of the Working Group for the Preparation for the 2019 World Radiocommunication Conference (WRC-19).
 - b) The administrations of the Coordinators and Vice-coordinators of subgroups and the Rapporteurs and Alternate Rapporteurs for agenda items, expressing appreciation for the excellent work done prior to and during WRC-19, which resulted in the adoption by WRC-19 of a large number inter-American proposals.
 - c) The CITEL administrations, appreciating their work prior to WRC-19.
2. To express appreciation to the Secretariat of CITEL for its excellent work in the preparations for WRC-19, and during that meeting.

⁴ PCC.II-2018-35-5132r1_i

**CIRCULATION OF THE DRAFT REPORT OF THE CITEL FINANCIAL SUSTAINABILITY
WORKING GROUP**

The 35 Meeting of the Permanent Consultative Committee II: Radio communications (PCC.II);

DECIDES:

1. To request the Executive Secretary of CITEL to send the Draft Report prepared by the CITEL Financial Sustainability Working Group of COM/CITEL to the Member States and Associate Members of PCC.II.
2. To invite Member States and Associate Members to review the draft report contained in document COM/CITEL/doc.255/19r1, and in particular the draft proposal for the creation of a new single membership category.
3. To request the concerned parties to send their comments and proposals, as appropriate, to Mr. Victor Martínez of the Administration of Mexico (victor.martinezv@ift.org.mx) and to the Secretariat of CITEL (citel@oas.org) before September 10, 2020.

⁵ PCC.II-2018-35-5137r2_i