



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

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

**30 MEETING OF PERMANENT
CONSULTATIVE COMMITTEE II:
RADIOCOMMUNICATIONS
November 27 to December 1, 2017
Barranquilla, Colombia**

**OEA/Ser.L/XVII.4.2.30
CCP.II-RADIO/doc. 4500/17 rev.1
1 February 2018
Original: Spanish**

FINAL REPORT

(Item on the Agenda: 7)

(Document submitted by the Drafting Group)

TABLE OF CONTENTS

I. MEETING OFFICERS.....	3
II. FINAL REPORT OF THE PCC.II CHAIR (DOCUMENT PRESENTED BY THE CHAIR OF THE PCC.II)	3
III. AGENDA	5
IV. RESOLUTIONS	8
PCC.II/RES. 120 (XXX-17).....	8
AGENDA, VENUE AND DATE FOR THE 31 MEETING OF PCC.II.....	8
PCC.II/RES. 121 (XXX-17).....	11
INTER-AMERICAN PROPOSALS FOR WORLD RADIOCOMMUNICATION CONFERENCES	11
PCC.II/RES. 122 (XXX-17).....	20
SEMINAR ON TERRESTRIAL IMT-2020.....	20
PCC.II/RES. 123 (XXX-17).....	22
SEMINAR ON THE FIXED AND MOBILE SATELLITE SERVICES.....	22
V. RECOMMENDATIONS	25
PCC.II/REC. 56 (XXX-17)	25
FREQUENCY ARRANGEMENTS FOR THE TERRESTRIAL COMPONENT OF IMT IN THE BAND 614-698 MHz	25
PCC.II/REC. 57 (XXIX-17)	27
RECOMMENDATION ON SPECTRUM MANAGEMENT FOR MTC/IOT/M2M APPLICATIONS	27
PCC.II/REC. 58 (XXX-17)	29
GUIDANCE ON A LICENSING FRAMEWORK FOR AUTHORIZATION AND OPERATION OF EARTH STATIONS IN MOTION COMMUNICATING WITH GEOSTATIONARY SPACE STATIONS IN THE FIXED SATELLITE SERVICE IN THE FREQUENCY BANDS 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz AND 14.0-14.5 GHz IN THE AMERICAS.....	29
PCC.II/REC. 59 (XXX-17)	31
SPECTRUM USE OF THE FREQUENCY RANGE 470-698 MHz BY THE BROADCASTING SERVICE.....	31
VI. DESICIONS.....	34
PCC.II/DEC. 197 (XXX-17)	34
MONITORING OF THE POWER LEVELS OF UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN BY BASE STATIONS PROVIDING IMT SERVICES WITH LTE RADIO INTERFACES.....	34
PCC.II/DEC. 198 (XXX-17)	35
ELECTRONIC CORRESPONDENCE GROUP ON THE SATELLITE BROADBAND SYSTEMS IN THE AMERICAS	35
PCC.II/DEC. 199 (XXIX-17).....	36
WORK OF THE AD-HOC GROUP TO UPDATE THE INTER-AMERICAN PROPOSAL (IAP) PROCEDURE AND TO CREATE THE INTER-AMERICAN CONTRIBUTION (IAC) PROCEDURE.....	36
VII. LIST OF BASIC DOCUMENTS.....	37

FINAL REPORT

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

The 30 Meeting of Permanent Consultative Committee II: Radiocommunications (PCC.II) was held in Barranquilla, Colombia, from November 27 to December 1, 2017.

I. MEETING OFFICERS

Alternate Chair of PCC.II:	Mr. Franklin Merchán (Colombia)
Vice Chair of PCC.II:	Mr. Héctor Budé (Uruguay)
Vice Chair of PCC.II:	Mr. José Arias (Mexico)
Vice Chair of PCC. II:	Mrs. Jessenia Vado Espinoza (Nicaragua)
Executive Secretary:	Mr. Oscar León

Drafting Group:

Chairperson: Mr. Ricardo Martinez (Colombia)

Members: Ms. Sandra Wright (USA)
Mr. Marc Girouard (Canada)
Ms. Johanna Cruz (Colombia)
Mr. Gustavo Vargas (Colombia)
Mr. Israel Bernal (Colombia)
Mr. Mauricio Farieta (Colombia)

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

During the 30th 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. 4383/17. Furthermore, the PCC.II working groups met according to the Schedule issued as document CCP.II-RADIO/doc. 4384/17 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

During the 30th meeting of PCC-II the Working Group and Sub Working Groups of WRC-WG -19 met a total of 2 times each with the exception of SGT-4 which had no input documents at this meeting. During those meetings 50 documents were considered. Among the issues discussed were: modification and recognition of agenda item rapporteurs identified in the WRC structure, new procedure for the Inter-American Proposals, CITEL's documents in preparation for WRC-19, and the Mentoring Program.

The mentoring program created at the 29th meeting of PCC.II to ensure the continuity of CITEL procedures, in accordance with established COM/CITEL regulatory statutes, held a meeting and approximately 40 delegates signed on to be either Mentors or Mentees.

The Report by the Chair with all the details was issued as document CCP.II-RADIO/doc. 4488/17.

2. Working Group on Terrestrial Fixed and Mobile Radiocommunication Services

This group met 2 times and considered 23 contributions. Among the issues discussed were: A report on ITU-R activities, IMT implementation in the region, the future of IMT, critical infrastructure used by utilities, public protection, HAPS, and spectrum management.

The Report by the Chair with all the details was issued as document CCP.II-RADIO/doc. 4489/17 rev.1.

3. Working Group on Satellite Systems

The Working Group on Satellite Systems met 2 times and considered 14 documents; 9 were informative documents, 1 related to Decisions approved and 4 related to proposals of Recommendation, Resolution or Decision, which are indicated and described in the WG Chair Report.

The Report by the Chair with all the details was issued as document CCP.II-RADIO/doc. 4490/17.

4. Working Group on Broadcasting

The Working Group on Broadcasting met 2 times and considered 6 documents, including one related to a draft recommendation.

The Report by the Chair with all the details was issued as document CCP.II-RADIO/doc. 4483/17

5. Ad hoc Group to Coordinate Projects Associated with Strategic Initiatives of the OAS

This Ad hoc Group met once and also held a working lunch. A detailed description of the works of this Group is contained in the Chair's Report which was issued as document CCP.II-RADIO/doc. 4491r2/17

6. Ad hoc Group for the Identification of Work Priorities, Expected Results, and Possible Improvements in the Participation of Associate Members for the Next PCC.II Study Period

This Ad hoc Group met once. A detailed description of the works of this Group is contained in the Chair's Report which was issued as document CCP.II-RADIO/doc. 4478/17r2. This Ad Hoc Group ended its activities during this meeting.

7. Issues to be highlighted

Note the following commitments towards the 31th meeting of the PCC.II to be held in Mexico, as indicated below:

1. The next (31) Meeting of the PCC.II will be held from July 16 to 20, 2018 in Mexico, thanks to the generous invitation of that Government.
2. Output documents of the 30th Meeting of the PCC.II in preparation for the WRC-19 will be available at <https://www.citel.oas.org/en/Pages/PCCII/WRC.aspx> and have been issued as:
 - a. **Preliminary Views:** document CCP.II-RADIO-30/doc. 4356/17
 - b. **Preliminary Proposals:** document CCP.II-RADIO-30/doc. 4357/17
 - c. **Draft Inter-American Proposals (DIAPs):** document CCP.II-RADIO-30/doc. 4358/17

- d. **Inter-American Proposals (IAPs):** document **CCP.II-RADIO-30/doc. 4359/17**
- 3. Since the Ad-Hoc Group to Update the Inter-American Proposal (IAP) Procedure and to create the Inter-American Contribution (IAC) Procedure completed its task on the IAP Procedure, it should continue its work to create the procedure for Inter-American Contributions to ITU-R Study Groups during the 31 and 32 meetings of PCC.II.
- 4. Two seminars will be held within the framework of the 31st and 32nd meetings of the PPC.II in 2018, this requires close coordination between the Chair of the PCCII, the Associate Members and the Executive Secretariat of CITELE for its success.

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.
 - 3.2.1. Sub-working group on Spectrum Management
 - 3.3 Working Group on Satellite Systems.
 - 3.4 Working Group on Broadcasting.
 - 3.5 *Ad Hoc* Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications.
 - 3.6 *Ad Hoc* Group for the Identification of Work Priorities, Expected Results, and Possible Improvements in the Participation of Associate Members for the Next PCC.II Study Period
- 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 WORKING GROUPS

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

¹ CCP.II-2017-30-4383_i

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 CITELE representatives.
5. Consideration of issues resulting documents submitted through the collaborative space.
6. *Ad-Hoc* Group for the Updating of the Procedure of Inter-American Proposals (IAP) and Creation of Procedure for Inter-American Contributions (IAC)
7. Work Plan.
8. 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

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.

3.5 *Ad Hoc* Group to Ad Hoc Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications

3.6 *Ad Hoc* Group for the Identification of Work Priorities, Expected Results, and Possible Improvements in the Participation of Associate Members for the Next PCC.II Study Period

IV. RESOLUTIONS

PCC.II/RES. 120 (XXX-17)²

AGENDA, VENUE AND DATE FOR THE 31 MEETING OF PCC.II

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

RESOLVES:

1. To hold the 31st. Meeting of PCC.II from July 16 to 20, 2018 in Mexico.
2. To approve the draft agenda for the 31st. Meeting of PCC.II that is attached as an Annex.

ANNEX TO RESOLUTION PCC.II/RES. 120 (XXX-17)

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.
 - 3.2.1. Sub-working group on Spectrum Management
 - 3.3 Working Group on Satellite Systems.
 - 3.4 Working Group on Broadcasting.
 - 3.5 *Ad Hoc* Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications
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.

² CCPII-2017-30-4482_i

DRAFT AGENDAS OF THE WORKING GROUPS

3.1 Working Group on the preparation of CITELE 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).
 - a. Update of WRC-19 preparations.
4. Report of chapter chairpersons and CITELE representatives.
5. Consideration of issues resulting documents submitted through the collaborative space.
6. *Ad-Hoc* Group for the Updating of the Procedure of Inter-American Proposals (IAP) and Creation of Procedure for Inter-American Contributions (IAC)
7. Work Plan.
8. 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

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.

3.5 *Ad Hoc* Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications

PCC.II/RES. 121 (XXX-17)³

INTER-AMERICAN PROPOSALS FOR WORLD RADIOCOMMUNICATION CONFERENCES

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

a) That the evaluation of the practical experiences gained during the years when the current in force procedure for drafting joint proposals for the ITU World Radiocommunication Conference (WRC) shows that this procedure can be improved;

b) That it is deemed advisable to introduce improvements to the current procedure to prepare and submit joint documents to the WRC, and to account for electronic methods of communication that facilitate the current procedure of the Inter-American Proposals for WRC;

c) That it is necessary to include the procedures that shall be followed at the WRC to modify an existing Inter-American Proposal (IAP);

d) That it is necessary to include the procedures that shall be followed at the WRC to establish a new IAP on future agenda items;

e) That it is necessary to include the procedures that shall be followed at the WRC to establish a CITELE position in response to questions on the agenda items of the WRC;

RESOLVES:

1. To adopt the procedure attached in the Annex for preparing and adopting IAPs to WRC.
2. To revoke Resolution PCC.II/RES. 105 (XXVI-15).

³ CCPII-2017-30-4477r4_i

ANNEX TO RESOLUTION PCC.II/RES. 121 (XXX-17)

**INTER-AMERICAN PROPOSALS FOR WORLD RADIOCOMMUNICATION
CONFERENCES**

1. OBJECTIVES

- a. To establish the procedure to be followed to prepare any written proposal developed within the context of PCC.II to be submitted to a World Radiocommunication Conference (WRC) with the quality of an Inter-American Proposal (IAP).
- b. To establish the procedure to be followed to modify an IAP during a WRC.
- c. To establish a procedure to be followed, when necessary to develop CITEL's position in response to issues that arise during a WRC related to WRC agenda items
- d. To establish a procedure to be followed by CITEL Member States attending the WRC when develop one or more IAP in connection with future WRC agenda items.
- e. To establish the procedure to be followed, as appropriate, during a WRC, to develop CITEL positions in response to WRC agenda item issues.
- f. To encourage OAS/CITEL Member States to participate in all of the meetings of the PCC.II, especially in the LIMIT and FINAL MEETINGS, given their importance in the process of developing IAPs in preparation for WRC.

In using these procedures, every effort should be made to reach consensus among OAS/CITEL Member States.

2. DEFINITIONS

For the purposes of this procedure, the terms set forth are defined as follows:

- a. **WG-WRC:** The PCC.II Working Group responsible for the preparation of CITEL proposals to be submitted to the World Radiocommunication Conference.
- b. **PRELIMINARY PROPOSAL (PP):** a proposal that one (1) OAS/CITEL Member State presents to PCC.II, and that has not yet been supported by any other Member State. The PP is to be considered by the WG-WRC; with the objective of developing it into an INTER-AMERICAN PROPOSAL for eventual submission to the WRC.
- c. **DRAFT INTER-AMERICAN PROPOSAL (DIAP):** PRELIMINARY PROPOSAL which has been supported by at least one (1) other Member State. The DIAP is to be considered by the WG-WRC; with the objective of developing it into an INTER-AMERICAN PROPOSAL for eventual submission to the WRC.
- d. **INTER-AMERICAN PROPOSAL (IAP):** DRAFT INTER-AMERICAN PROPOSAL, for which the PCC.II has ended its consideration and discussion as early as the LIMIT MEETING but not

later than the FINAL MEETING, and has met the criteria defined in Step 4 below describing the development of an IAP.

- e. **MODIFIED INTER-AMERICAN PROPOSAL (IAP-MOD):** INTER-AMERICAN PROPOSAL that has already been submitted to the WRC, that has been since deemed necessary to change and adopt by CITEL in accordance with the provisions of this Resolution.
- f. **INTER-AMERICAN PROPOSAL DEVELOPED AT A WRC (IAP-WRC):** Proposal submitted during the course of the WRC, whose content deals only with and is the result of discussions on:
 - i) the items of the agenda of future conferences and;
 - ii) any position of the Region adopted in response to WRC issues which were not anticipated during preparations prior to the WRC.
- g. **LIMIT MEETING:** Penultimate meeting of the PCC.II before the WRC to which the IAP will be submitted. This meeting is to be held at least five (5) months before the beginning of the WRC, so that the WRC's document submission deadline can be met.
- h. **FINAL MEETING:** Last meeting of the PCC.II before the WRC to which the IAP will be submitted. This meeting is to be held after the LIMIT MEETING and before the beginning of the WRC.

3. PROCEDURE

A. DEVELOPMENT OF INTER-AMERICAN PROPOSALS BEFORE THE WRC

A1. STEPS

The following steps comprise the procedure for the consolidation and adoption of an IAP.

Step 1. Presentation, discussion and consolidation of a PRELIMINARY PROPOSAL in the WG-WRC

Administrations will submit their PRELIMINARY PROPOSALS to PCC.II. The WG-WRC will consider and discuss the PRELIMINARY PROPOSALS with a view to consolidating and elevating them into DRAFT INTER-AMERICAN PROPOSALS and eventually to develop the texts before the last WG-WRC plenary of the LIMIT MEETING.

No new PRELIMINARY PROPOSALS shall be considered or developed at the FINAL MEETING, unless: a) the PRELIMINARY PROPOSAL is based on new or revised text from a Conference Preparatory Meeting (CPM) that has taken place between the LIMIT MEETING and the FINAL MEETING, or b) PRELIMINARY PROPOSALS that only relate to future WRC agenda items.

Step 2. Evaluation of the support and opposition to PRELIMINARY PROPOSALS in the WG-WRC

After the Chair of the WG-WRC or of one of the Sub Working Groups determines that the treatment and preparation of texts of PRELIMINARY PROPOSALS has been completed based on the support by OAS/CITEL Member States, the PRELIMINARY PROPOSALS may be

evaluated towards creating a DIAP, in accordance with the procedures set out in Steps 3 to 7 below.

If a PRELIMINARY PROPOSAL meets the corresponding support criteria, then it is converted into a DIAP at that time. The PRELIMINARY PROPOSALS that do not achieve the status of a DIAP shall remain PRELIMINARY PROPOSALS and can eventually become DIAPs when they comply with that criteria. At the end of the FINAL MEETING, it will be understood that any further consideration of a PRELIMINARY PROPOSAL shall cease if the PP did not achieve the status of IAP based on the criteria set forth in Step 4 below.

Step 3. Circulation of DRAFT INTER-AMERICAN PROPOSALS during one or more rounds of consultation

The CITEI Secretariat shall make the DIAPs available to all OAS/CITEI Member States, for consideration no more than two (2) weeks after the closing of the corresponding meetings of the PCC.II, up to and including the LIMIT MEETING, in which these DIAPs have been considered.

The CITEI Secretariat will request OAS/CITEI Member States to indicate their support or opposition, as appropriate. Based on the responses from Member States, the CITEI Secretariat will update the status of all DIAPs in an updated document to be submitted to the following PCC.II meeting.

Step 4. Evaluation of the support and opposition of the DRAFT INTER-AMERICAN PROPOSALS

- i) During the WG-WRC meetings the number of supports and oppositions to each of the DIAPs will be evaluated.
- ii) If a DIAP has been supported by at least six (6) OAS/CITEI Member States and is not opposed by more than fifty percent (50%) of the number of supports obtained, it will be converted to an IAP.
- iii) At the end of the FINAL MEETING, any DIAP that did not achieve the status of IAP and is not associated with a future WRC agenda item, will be no longer considered (see Step 6, iii) below).

Step 5. Circulation of the INTER-AMERICAN PROPOSALS

No more than two (2) weeks after the closing of the LIMIT MEETING and the FINAL MEETING the Secretariat shall make available the IAPs to all OAS/CITEI Member States.

OAS/CITEI Member States wishing to add their support to IAPs may do so following the procedure in section A2.

Step 6. DRAFT INTER-AMERICAN PROPOSALS that did not become INTER-AMERICAN PROPOSALS at the FINAL MEETING

- i) OAS/CITEI Member States can submit their support or opposition to DRAFT INTER AMERICAN PROPOSALS on future WRC agenda items during the two week period after the FINAL MEETING to the CITEI Secretariat.

- ii) At the end of the two (2) week period mentioned in Step 6, i), the DIAP that meets the approval criteria defined in Step 4, ii) will then become an IAP and be submitted to the WRC by the CITEL Secretariat.
- iii) DRAFT INTER-AMERICAN PROPOSALS on other agenda items that did not become IAPs at the FINAL MEETING will no longer be considered.

Step 7. Sending INTER-AMERICAN PROPOSALS to the ITU

At the LIMIT MEETING, the PCC.II, in a plenary session will approve a Resolution to define:

- a. The list of current IAPs;
- b. The list of current DIAPs that, despite the efforts done, have not yet become IAPs;
- c. The list of current PRELIMINARY PROPOSALS that will continue to be considered at the FINAL MEETING;
- d. The date any IAPs are to be sent to the ITU.

At the FINAL MEETING, the PCC.II, in a plenary session will approve a Resolution to define:

- a. The current list of IAPs;
- b. The current list of DIAPs on future WRC agenda items that, despite the efforts done, have not yet become IAPs;
- c. The current list of PRELIMINARY PROPOSALS that will still be under consideration at the FINAL MEETING
- d. The date IAPs are to be sent to the ITU.

Step 8. Final Step

After the FINAL MEETING, all IAPs which have been completed, become the representative Regional position to the WRC.

The Secretariat of CITEL will send the IAPs to the ITU in the time frame set by the PCC.II, following ITU rules and procedures.

A2. SUPPORT

OAS/CITEL Member States wishing to support a PRELIMINARY PROPOSAL being considered in the WG-WRC must do so during a session of the WG-WRC or a session of the appropriate sub working group of the WG-WRC either orally or in writing.

OAS/CITEL Member States wishing to support a DIAP being considered by PCC.II, must do so during a PCC.II plenary session, a session of the WG-WRC, or in accordance with Step 3 or 6 of Section A1 above, either orally during the meeting or in writing at meetings or between meetings, as applicable.

OAS/CITEL Member States wishing to support an IAP may do so:

- a. During a PCC.II plenary session, including the FINAL MEETING, either orally or in writing;
- b. Between PCC.II meetings by sending written notice (letter, fax or e-mail) to the Secretariat of CITEL, before the FINAL MEETING;
- c. After the FINAL MEETING and before the start of the WRC, by sending written notice (letter, fax or e-mail) to the Secretariat of CITEL;

- d. Directly through their delegation participating in the WRC delivered either orally or in writing to the Secretariat of CITEL.

As a result of the support received, the CITEL Secretariat will give the ITU the names of CITEL Member States to be added in the form of a “corrigendum” to the document of the IAP.

In the extraordinary situation that after the FINAL MEETING and during the course of the WRC, a decrease in the number of countries supporting an IAP, the IAP doesn’t change status and the WRC-WG will determine by consensus which appropriate actions to take, if any.

OAS/CITEL Member States in this extraordinary situation wishing to change the status of their support must notify it by written communication (letter, fax or e-mail) to the CITEL Secretariat and the chair of the WG-WRC before the next meeting of the WG-WRC.

A3. OPPOSITION

It is understood that OAS/CITEL Member States which oppose a DIAP shall indicate clearly the reasons of their oppositions.

OAS/CITEL Member States wishing to oppose a DIAP being considered by PCC.II must do so during a PCC.II plenary session, a session of the WG-WRC, either orally during the meeting, or in writing at meetings or between meetings, or in accordance with Step 3 or 6 of Section A1, as applicable.

A4. GENERAL PROVISIONS

A4.1 Obtaining support

The OAS/CITEL Member State that originally submitted a PRELIMINARY PROPOSAL shall undertake the task of coordinating and encouraging its support, in order that it becomes a DIAP and an IAP afterwards.

A4.2 Format for DRAFT INTER-AMERICAN PROPOSALS

The CITEL Secretariat shall draw up a table detailing the support and opposition that each of the DIAPs and IAPS has received.

The heading for each DIAP shall include the following items in the sequence indicated below:

- a. The names of any OAS/CITEL Member States that had expressed their support. These names shall be written in boldface text to clearly indicate the support of the document;
- b. The names of any OAS/CITEL Member States that have expressed their opposition.

A4.3 Contact points

Communications with the OAS/CITEL Member States should be channeled through the contact points identified to CITEL in accordance with Article 24 of the Statute and Article 84 of the Regulations of CITEL.

A4.4 Superposition of competence

If the topic being considered involves areas of competence of other CITELE bodies, their opinions thereof must be obtained before the process is completed.

A4.5 Views/Positions of OAS/CITEL Member States during the WRC

It is understood that if a OAS/CITEL Member State chooses to oppose a specific IAP or CITELE position at the WRC, that OAS/CITEL Member State will make every effort to inform the Chair or the Vice-Chair of the WG-WRC and the OAS/CITEL Member States supporting that IAP or CITELE position of their intention before expressing formally such opposition in any WRC session.

A4.6 National activities

OAS/CITEL Member States are encouraged to schedule their national preparatory activity in such a way as to be prepared to state their wishes regarding their position either in support of, in opposition to, as appropriate, for DIAPs as early as possible, or up to the LIMIT MEETING.

A4.7 Support or opposition in square brackets

An OAS/CITEL Member State wishing to express its provisional support or opposition may do so by putting its name in square brackets. However, this support or opposition in square brackets will not be taken into account during the evaluation of the number of supports or oppositions to a DIAP or IAP.

When the FINAL MEETING ends, any names of the OAS/CITEL Member States that are still in square brackets will be removed.

A4.8 Conflict

In the case where discussions during the FINAL MEETING result in DIAP or IAP that conflict within the same Agenda Item, support for one proposal will be considered as opposition to the other and the resulting proposals will be evaluated using procedures established in Step 4.

An OAS/CITEL Member State supporting, at the same time, both of the DIAP or IAP within the same Agenda Item in this case will not be counted towards the approval of an IAP.

B. MODIFICATION OF AN INTER-AMERICAN PROPOSAL DURING A WRC (IAP-MOD)

During a WRC, it may become necessary to consider modifications by present CITELE Member States at the Conference to the text of an IAP based on discussions held during the WRC with respect to specific agenda items.

When that is the case, the OAS/CITEL Member States present at the Conference and that originally supported the IAP will discuss the matter to decide whether a proposal for modification is applicable. If, during the consideration of the modification by the WG-WRC, one (1) present OAS/CITEL Member States does not support the proposal for modification, the IAP shall remain unchanged.

If those present OAS/CITEL Member States unanimously agree to propose the modification, it shall be submitted to the consideration of the WG-WRC, and if none of the OAS/CITEL Member States present at the meeting of that group expresses its opposition, then it is approved and shall be forwarded to the WRC by the CITELE Secretariat. However, in case there is opposition by one (1) present OAS/CITEL Member

State that did not originally support the IAP, the IAP-MOD is only approved if not opposed by more than 25% of OAS/CITEL Member States present at that meeting.

In the case of an IAP-MOD, only the names of the OAS/CITEL Member States present at the meeting and supporting the modified IAP will be listed on the heading.

OAS/CITEL Member States not in attendance of the WG-WRC meeting or the WRC will be informed by the CITEL Secretariat of the modified IAP once it is approved at the meeting.

Any OAS/CITEL Member States not present at the WG-WRC meeting or the WRC desiring to have their names added to the IAP-MOD will contact the Secretariat of CITEL for them to follow the established procedure with ITU.

An IAP-MOD rescinds, supersedes and extinguishes the corresponding original IAP.

C. NEW INTER-AMERICAN PROPOSALS DURING A WRC (IAP-WRC)

Given that the WRC is a dynamic process, some issues might arise from the agenda items that would not have been foreseen before the WRC and that might require the development of a new IAP.

Proposals for developing a new IAP will not be considered during a WRC except in the cases described below, bearing in mind that this option shall not be used, under any circumstance, as an alternative to the procedures previously established to draft an IAP, nor can specific proposals that were previously considered be submitted:

- i. Proposals for future WRC agenda items based on the treatment of current WRC issues.
During the course of the WRC, it might be relevant to develop an IAP-WRC for the purpose of including items on the agenda of future Conferences, on the basis of discussions on various current agenda items.
Regarding the IAPs already submitted to the WRC on future WRC agenda items, it might be necessary to consolidate and prioritize them based on the number of supports and oppositions of OAS/CITEL Member States for each IAP.
- ii. WRC agenda item issues which were not anticipated prior to the WRC.
This would include proposals from other regional organizations for future WRC agenda items for which CITEL is required to state a position of support, opposition or neutrality. Establishing a CITEL position on other issues may also be beneficial.

Upon the identification of the need to develop a new IAP (including the establishment of a CITEL position), the responsible spokesperson will circulate the proposed text to WG-WRC participants by the established CITEL electronic communication means for the Conference, and will also set the maximum period during which the views of the OAS/CITEL Member States may be accepted.

In the case of an IAP-WRC, only the names of the Member States present at the WG-WRC meeting and supporting the new IAP will be listed on the heading. Those OAS/CITEL Member States not in attendance at the WG-WRC or WRC shall be informed by the CITEL Secretariat of the IAP-WRC once it is approved. Any OAS/CITEL Member States, present or not, wishing to have their names added shall contact the CITEL Secretariat either orally or in writing.

The IAP-WRC will be considered approved if not opposed by two (2) or more OAS/CITEL Member States present at the WRC.

When the IAP-WRC has been approved, the spokesperson of OAS/CITEL shall proceed in accordance with the functions assigned him by Resolution PCC.II/RES.106 (XXVI-15).

D. APPLICATION OF THIS PROCEDURE

The provisions of this procedure shall be applied and interpreted in accordance with Resolution COM/CITEL RES. 226 (XXI- 09).

Any topic that is not covered in this procedure shall be resolved in a plenary session of PCC.II after the respective consultation with the Chair of WG-WRC

PCC.II/RES. 122 (XXX-17) ⁴

SEMINAR ON TERRESTRIAL IMT-2020

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) That most Member States have or are considering plans to speed up the deployment of terrestrial IMT services in their countries;
- b) That ITU-R Working Party 5D (WP 5D) is working on various deliverables on the development of terrestrial IMT-2020 systems;
- c) That ITU-R Task Group 5/1 (TG 5/1) is responsible for WRC-19 agenda item 1.13 to consider identification of frequency bands for the future development of terrestrial International Mobile Telecommunications (IMT);
- d) That the aim of IMT-2020 is to create a more ‘hyper connected’ society by more comprehensively, and intelligently integrating LTE, Wi-Fi and cellular IoT technologies, together with at least one new IMT-2020 radio interface, allowing mobile networks to dynamically allocate resources to support the varying needs of a diverse set of connections;
- e) That one of PCC.II’s mandates is to foster the development and the implementation of modern technologies and new radiocommunication services, specifically their technical and operational aspects in order to understand the changing needs of the Member States.

RECOGNIZING:

- a) The usefulness of the seminars as an efficient mechanism to focus the attention on important current topics, and to increase the level of knowledge on them;
- b) That it is important to analyze the deployment evolution and perspectives of terrestrial IMT, including IMT-2020, technologies and their future needs including spectrum requirements;
- c) That it is also important to analyze the deployment evolution and perspectives of the national and regional terrestrial IMT services;
- d) That it is advantageous to exchange information among CITEL's Administrations, Associate Members and Permanent Observers to the OAS;
- e) That information presented in seminars constitutes important background and a reference for other international and regional organizations.

⁴ CCPII-2017-30-4480_i

RESOLVES:

1. To hold a seminar on terrestrial IMT-2020 during the 32 meeting of PCC.II;
2. To have this seminar pursuant to Resolution PCC.III/RES.86 (XII-99), entitled “Procedures for the Organization of Seminars,” noting in particular that the seminar would be held at no cost to CITEL;
3. To set a maximum duration of half a day for this seminar;
4. To appoint Mr. Geraldo Neto as coordinator of the seminar;
5. To determine that the seminar program should include topics related to sharing information on terrestrial IMT-2020 applications and services, including the standardization process, spectrum matters, regulatory issues, and role of IMT-2020 networks to other industries.

INSTRUCTS THE EXECUTIVE SECRETARY:

To send this Resolution to the CITEL Member States, Associate Members, and Permanent Observers, inviting them to participate in the seminar.

PCC.II/RES. 123 (XXX-17)⁵

SEMINAR ON THE FIXED AND MOBILE SATELLITE SERVICES

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

a) The goals set in the Strategic Plan 2014-2018, approved by Resolution RES. 70 (VI-14) of the Sixth Regular Meeting of the CITEL Assembly, directed at the Permanent Consultative Committee II and in particular the Working Group on Satellite Systems;

b) That the evolution of satellite technology has the potential to complement, compete and provide alternative solutions with the availability of services in countries throughout the Americas region, including developing and least developed countries, and achieve the goals of connectivity in CITEL Administrations;

c) That satellite systems offer a variety of services to fixed and mobile sites, which are available today to meet the commercial and national needs of CITEL Administrations including during humanitarian disasters and environmental emergencies;

d) That CITEL Administrations have expressed interest in additional information about the deployment of satellite services in the Americas region, including new and emerging applications and consideration of regulatory aspects,

RECOGNIZING:

a) The efforts of CITEL Administrations to improve their policies and regulations with respect to satellite services, include the role of satellite services in their national broadband plans and facilitate the provision of such services in their national territories;

b) The importance of satellite communications in support of national telecommunications and connectivity plans;

c) The necessity to continue working on the application of the results of WRC-15 on satellites services and progress on issues of WRC-19 with respect to satellite regulation and technology including earth stations in motion and non-geostationary satellite systems;

d) The ongoing work of the PCC-II Working Group on Satellite Systems;

e) The usefulness of seminars as an effective mechanism to focus attention on important current and emerging topics and to increase the level of understanding of CITEL Administrations;

f) That it is advantageous to exchange information among CITEL's Administrations, Associate Members and Permanent Observers to the OAS;

⁵ CCPII-2017-30-4494r1_i

g) That information presented in seminars constitutes important background and a reference for other international and regional organizations,

RESOLVES:

1. To hold a seminar at the 31 Meeting of PCC.II, to be held in early 2018, on activities related to advanced satellite services in the Americas region;

2. That the seminar contemplate topics related to new satellite technologies, applications and services; communications in motion; broadband satellite services; the role of satellites in meeting user demands for IoT, M2M, similar uses and technologies of new generation; as well as regulatory considerations for use of satellite services to meet government and commercial requirements in the Americas region;

3. To set a maximum duration of half-day for this seminar;

4. To hold the seminar pursuant to Resolution PCC.III/RES.86 (XII-99), entitled “Procedures for the Organization of Seminars,” noting in particular that the seminar would be held at no cost to CITELE;

5. To appoint Mrs. Michelle Caldeira of Brazil (email: michelle.caldeira@ses.com Tel + 55 11 99255-9572 or +1 609 285-8162) as the coordinator of the seminar.

INVITES:

1. CITELE Administrations to participate in this seminar in order to share and exchange experiences, which will help ensure the success of the seminar;

2. Experts on satellite services and regulation to provide presentations during the seminar;

3. Member States and Associate Members of CITELE interested in participating in the seminar to contact the coordinator of the seminar.

ANNEX TO RESOLUTION PCC.II/RES. 123 (XXX-17)

SEMINAR ON THE FIXED AND MOBILE SATELLITE SERVICES

List of Potential Seminar Topics

1. New satellite technologies, applications and services

Satellite operators will present an overview of new applications available and what the market is demanding

2. Communications in motion

3. Broadband satellite services and increasing Connectivity

4. The role of satellites in meeting user demands for Next Generation Technologies Access, IoT, M2M and similar uses

Satellite operators will be invited to present their view on how satellite networks can be integrated into Next Generation Technologies Access networks and its main cases.

5. Use of satellite systems during natural disasters and for emergency relief

6. Regulatory considerations for use of satellite communications to meet government and commercial requirements in the Americas region

7. WRC-19: Challenges and Opportunities for Communications Satellite Services

Focus on WRC-19 issues related to satellite and how those issues may impact the delivery of satellite services.

V. RECOMMENDATIONS

PCC.II/REC. 56 (XXX-17) ⁶

FREQUENCY ARRANGEMENTS FOR THE TERRESTRIAL COMPONENT OF IMT IN THE BAND 614-698 MHZ

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) That the frequency band 614-698 MHz, or parts of this band, was identified by some administrations at the 2015 World Radiocommunication Conference (WRC-15) for its use by IMT in accordance with No. **5.308A** of the Radio Regulations;
- b) That this identification does not preclude the use of this frequency band by any application of the services to which they are allocated and does not establish priority in the Radio Regulations;
- c) That harmonized use of spectrum and frequency arrangements for IMT are desirable;
- d) The provisions of the [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”

RECOGNIZING:

- a) That, for some administrations from Region 2, the benefits granted by broadcasting in the range 470-698 MHz, which is allocated to this service on a primary basis, are still fundamental.
- b) That there are additional allocations to the Fixed and Mobile Services on a primary basis in the frequency band 614-698 MHz in some countries from Region 2 (as per ITU RR footnotes 5.293, 5.308 and 5.309), subject to agreement obtained under No. 9.21;
- c) That some administrations have made spectrum available in the 614-698 MHz band for IMT and other administrations have not finalized their decisions regarding spectrum to be made available for IMT;
- d) That administrations may deploy IMT systems in bands allocated to the mobile service other than those identified in the RR;
- e) The importance for CITELE Member States to carry out cross-border coordination needed for the protection of existing or planned services in accordance with the applicable bilateral and multilateral instruments, taking into account the Radio Regulations, when bringing IMT into use in this frequency band;

⁶ CCPII-2017-30-4486_i

RECOMMENDS:

1. That CITEL Member States listed in No. 5.308A of the Radio Regulations implement the terrestrial component of IMT in this band using the following frequency arrangement:

Frequency arrangement for the terrestrial component of IMT in the band 614-698 MHz

Frequency arrangement	Paired arrangement			
	Mobile station transmitter (MHz)	Centre gap (MHz)	Base station transmitter (MHz)	Duplex separation (MHz)
	663-698	11	617-652	46

MHz	617	652	663	698
FDD	BS Tx		MS Tx	
	617	652	663	698

PCC.II/REC. 57 (XXIX-17)⁷

RECOMMENDATION ON SPECTRUM MANAGEMENT FOR MTC/IOT/M2M APPLICATIONS

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

a) That Annex 3 of ITU-R Resolution 958 (WRC-15) invites for “Studies on the technical and operational aspects of radio networks and systems, as well as spectrum needed, including possible harmonized use of spectrum to support the implementation of narrowband and broadband machine-type communication infrastructures, in order to develop Recommendations, Reports and/or Handbooks, as appropriate, and to take appropriate actions within the ITU Radiocommunication Sector (ITU-R) scope of work;”

b) That implementation of Machine-Type Communications (MTC)/Internet of Things (IoT)/Machine-to-Machine (M2M) can be considered a driver of economic and social development and have evolved into a transnational market of services where a significant portion of the devices are conceived for global interoperability;

TAKING INTO ACCOUNT:

That aspects related to MTC/IoT/M2M wireless access technologies and techniques are being addressed in the Radio Sector of the International Telecommunication Union (ITU-R);

NOTING:

a) That the Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I) approved through PCC.I/REC. 26 (XXVIII-16) the Recommendation to Incentivize Greater Adoption of IoT/M2M Services in the CITELE Member States;

b) That Member States could benefit from the experiences and success stories of other countries on spectrum management for MTC/IoT/M2M applications.

RECOGNIZING:

a) That MTC/IoT/M2M applications can be developed under different applications on different radiocommunications services.

⁷ CCPII-2017-30-4411r1_i

b) That MTC/IoT/M2M encompasses various platforms and applications which can be implemented under diverse technologies, including short-range devices, wide-area sensor networks and terrestrial and satellite components of IMT systems;

c) That MTC/IoT/M2M technologies are part of the IMT-2020 development and can benefit from economies of scale and from harmonization of the frequency bands already identified for IMT;

d) That MTC/IoT/M2M applications and devices can be used effectively in current technologies that work in different radiocommunications services with all the benefits of the existent broadband applications and, for example, the new frequency bands under study for IMT, avoiding the necessity of identifying spectrum dedicated exclusively for MTC/IoT/M2M applications;

e) That MTC/IoT/M2M applications can also be deployed across frequency bands within a particular network with other applications without requiring individual authorizations (unlicensed bands);

f) That implementation of MTC/IoT/M2M does not require specific regulatory provisions in the Radio Regulations;

RECOMMENDS:

1. That the Member States consider developing mechanisms to facilitate the use of MTC/IoT/M2M applications/technologies and consider the adoption of flexible spectrum management schemes in accordance with the laws and regulations applicable in each Member State.

2. That the Member States monitor market and technology developments to support the expected growth of MTC/IoT/M2M applications.

3. That the Member States consider this expected growth of MTC/IoT/M2M applications when developing their spectrum management plans.

GUIDANCE ON A LICENSING FRAMEWORK FOR AUTHORIZATION AND OPERATION OF EARTH STATIONS IN MOTION COMMUNICATING WITH GEOSTATIONARY SPACE STATIONS IN THE FIXED SATELLITE SERVICE IN THE FREQUENCY BANDS 10.95-11.2 GHZ, 11.45-11.7 GHZ, 11.7-12.2 GHZ AND 14.0-14.5 GHZ IN THE AMERICAS

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

a) that the bands 10.7-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz are allocated in Region 2 on a primary basis to the FSS and that there are a large number of geostationary satellite orbit (GSO) FSS satellite networks operating in these frequency bands;

b) that there is an increasing need for mobile communications, including satellite services, and that some of this need can be in part met by allowing earth stations to operate while stationary or in motion on platforms (such as vessels, aircrafts and vehicles) to communicate with space stations of the FSS;

c) that earth stations in motion are currently operating or planned to be operated in FSS networks in bands 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz frequency bands;

d) that sectors including maritime, aeronautical, energy and government can benefit from the services provided using earth stations in motion;

e) that earth stations aboard unmanned aircraft in the bands 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz in Region 2, 12.2-12.5 GHz in Region 3, 12.5-12.75 GHz, and 14 14.47 GHz fall under the provisions of Resolution 155 (WRC-15) and that these earth stations have additional requirements that must be considered separately;

f) that Recommendation ITU-R S.1587 “Technical characteristics of earth stations on board vessels communicating with FSS satellites in the frequency bands 5925-6425 MHz and 14-14.5 GHz which are allocated to the fixed-satellite service” describes technical characteristics of Earth Stations on board Vessels (ESVs) operating in the 14-14.5 GHz band;

g) that Recommendation ITU-R S.1857 “Methodologies to estimate the off-axis e.i.r.p density levels and to assess the interference towards adjacent satellites resulting from pointing errors of vehicle-mounted earth stations in the 14 GHz frequency bands” presents the general antenna pointing error characteristics of vehicle-mounted earth stations (VMESs) and provides a methodology to assess the potential interference towards adjacent satellites operating in the GSO, FSS systems;

h) that Recommendation ITU-R M.1643 “Technical and operational requirements for aircraft earth stations of aeronautical mobile-satellite service including those using fixed-satellite service network transponders in the band 14-14.5 GHz (Earth-to-space)” provides the technical and operational

⁸ CCPII-2017-30-4495_i

requirements for aircraft earth stations of aeronautical mobile-satellite service, including those using FSS network transponders operating in the band 14-14.5 GHz;

i) that Recommendation PCC.II/REC. 50 (XXVII-16) “Authorization of earth stations in motion communicating with geostationary space stations in the fixed satellite service in the frequency bands 19.7-20.2 GHz and 29.5-30.0 GHz in the Americas” was adopted to address similar earth stations in motion operations;

j) that Recommendation PCC.II/REC. 52 (XXVII-16) “Generic or blanket licensing regimes for ubiquitously deployed fixed-satellite service earth stations” provides guidance on how generic licenses can facilitate deployment of satellite services to end users;

RECOGNIZING:

a) that some CITELE Administrations have already adopted national regulations to facilitate the use of ESVs, VMESs and earth stations aboard aircraft (ESAAs) in the frequency bands 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz;

b) that some CITELE Administrations have already adopted national regulations in which a generic or blanket licensing regime is used to authorize ESVs, VMESs and ESAAs in the frequency bands mentioned in recognizing 1);

c) that some CITELE Administrations have authorized earth stations in motion operation in their countries;

d) that by the provisions of ITU RR No. 5.457A ESVs may communicate with space stations of the FSS in the band 14-14.5 GHz in accordance with Resolution 902 (WRC-03);

e) that the implementation of national regulatory frameworks in the Americas would facilitate the deployment of innovative and beneficial services e.g. the use of earth stations in motion in the Ku-band⁹;

RECOMMENDS:

That in the bands 10.95-11.2 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth) and 14.0-14.5 GHz (Earth-to-space), CITELE Administrations consider implementing a generic or blanket licensing framework to facilitate the deployment of ESVs, VMES and ESAAs communicating with space stations in the fixed satellite service.

⁹ In the frequency bands 10.95-11.2 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth) and 14.0-14.5 GHz (Earth-to-space).

PCC.II/REC. 59 (XXX-17)¹⁰

**SPECTRUM USE OF THE FREQUENCY RANGE 470-698 MHZ
BY THE BROADCASTING SERVICE**

The 30th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

a) That terrestrial television broadcasting is one of the most important and efficient mass communications media for delivering news, information, cultural programs, and entertainment free of charge to the general public;

b) That terrestrial broadcasting combines a number of relevant features such as universal coverage, ability to efficiently provide national, regional and local content and advertising, a very large receiver base, flexibility, technical and cost efficiency, provision of information in normal and emergency situations, and the potential for further development;

c) That the application of digital technology to broadcasting provides consistent service quality of images and sound, lower operating costs, improved system reliability, increased program diversity, portability interactivity and a more efficient use of the radio spectrum;

d) That terrestrial broadcasting networks have a long life cycle, and a stable regulatory environment is necessary to provide protection of investment and to encourage future development of the service;

e) That the time-frame and the transition period from analogue to digital television are not the same for all countries of the Region;

f) That despite the fact that there are countries that have implemented and that many have still to implement analogue switch-off, some are already considering the future options for the further development of DTTB, *e.g.*, UHDTV;

g) That the frequency band 470-694/698 MHz, or portions thereof, is the only band that is still harmonized and used on a global scale for over-the-air broadcast television;

h) That, in many countries, there is a need for making significant investments during the next decade for finalizing the migration of broadcasting (television) system stations that are above 698 MHz into the frequency band below 698 MHz and for the implementation of next generation broadcasting technologies.

CONSIDERING FURTHER:

a) That the thematic report “Freedom of Expression Standards for the Transition to a

¹⁰ CCPII-2017-30-4497r2_i

Diverse, Plural and Inclusive Free-to-Air Digital Television”, included in the 2014 Annual Report of the Office of the Special Rapporteur for Freedom of Expression of the Inter-American Commission on Human Rights of OAS, states that in many countries in the region, free-to-air television continues to be the main means of receiving information and entertainment, and that the arrival of digital television expands the quantity and quality of these services that can lead to a significant increase in the information and opinions people receive, especially those who do not have the financial means to pay for subscription TV services;

b) That the Recommendation ITU-R BT.1774-2 (Use of satellite and terrestrial broadcast infrastructures for public warning, disaster mitigation and relief) and the Report ITU-R BT.2299-2 (Broadcasting for public warning, disaster mitigation and relief) provides a compilation of supporting evidence that broadcasting plays a critically important role in disseminating information to the public in times of emergencies;

c) That the Report ITU-R BT.2207-2 (Accessibility to broadcasting services for persons with disabilities) describes accessibility features of broadcasting service;

d) That the Report ITU-R BT.2387-0 (Spectrum/frequency requirements for bands allocated to broadcasting on a primary basis) informs, based on the responses of a Questionnaire sent to the ITU membership, that the band primarily used by DTTB after the analogue switch-off and channel restacking will be within 470-694/698 MHz;

e) That the same Report informs that the majority of countries have or plan to introduce new and enhanced broadcast services (HDTV/UHDTV);

f) That the Report ITU-R BT.2343-2 (Collection of field trials of UHDTV over DTT networks) presents a compilation of field experiments, carried out by some countries, of UHDTV transmission over digital terrestrial broadcasting, demonstrating the feasibility of these systems.

RECOGNIZING:

a) That the Broadcasting Service is allocated on a primary basis in the frequency bands 470-608 MHz and 614-698 MHz throughout Region 2;

b) That there are additional allocations to the Fixed and Mobile Services on a primary basis in these frequency bands or portions thereof in some countries from Region 2 (as per ITU RR footnotes **5.292, 5.293, 5.297, 5.308** and **5.309**), however, these allocations are subject to agreement obtained under No. 9.21;

c) That, as per the ITU RR footnote **5.295**, in the Bahamas, Barbados, Canada, the United States and Mexico, the frequency band 470-608 MHz, or portions thereof, is identified for International Mobile Telecommunications (IMT);

d) That, as per the ITU RR footnote **5.308A** in the Bahamas, Barbados, Belize, Canada, Colombia, the United States and Mexico, the frequency band 614-698 MHz, or portions thereof, is identified for International Mobile Telecommunications (IMT);

e) That mobile service stations of the IMT system within the frequency bands 470-608 MHz and 614-698 MHz are subject to agreement obtained under RR No. **9.21** and shall not cause harmful interference to, or claim protection from, the broadcasting service of neighboring countries.

RECOMMENDS:

1. That CITEL Member States promote, as fast as possible, the technology transition from analogue to digital terrestrial television, to benefit from the effective and efficient use of the radio spectrum by the Broadcasting Service within the frequency range 470-698 MHz;

2. That CITEL Member States, when planning the use of spectrum within the frequency range 470-698 MHz, take the appropriate measures to protect the Broadcasting Service and not to constrain its future development and technological evolution.

VI. DESICIONS

PCC.II/DEC. 197 (XXX-17) ¹¹

MONITORING OF THE POWER LEVELS OF UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN BY BASE STATIONS PROVIDING IMT SERVICES WITH LTE RADIO INTERFACES

The 30th Meeting of Permanent Consultative Committee II: Radiocommunication (PCC.II),

DECIDES

- 1) To request that the Member States share their experiences regarding the measurement and evaluation of interferences caused by unwanted emissions in the out-of-band domain, particularly by stations providing IMT services with LTE radio interfaces.
- 2) To appoint Messrs. Alvaro Casallas (Alvaro.casallas@ane.gov.co) and Jose Heriberto Martinez (jose.martinez@ane.gov.co) of the Colombian administration to compile the information presented by the Member States.
- 3) To invite the Member States to propose possible next steps to the next meeting of PCC.II. on the procedure for measuring unwanted emissions in the out-of-band domain by base stations providing IMT services using LTE (E-UTRA) interfaces.

¹¹ CCPII-2017-30-4412r2_i

**ELECTRONIC CORRESPONDENCE GROUP ON THE SATELLITE BROADBAND SYSTEMS
IN THE AMERICAS**

The 30th Meeting of Permanent Consultative Committee II: Radiocommunication (PCC.II),

WHEREAS:

a) The need to bridge the digital divide - the gaps in access to information and communications technology - across the Americas is more critical than ever and the benefits of satellite broadband to assist in bridging the digital divide have become or are becoming a reality in a number of countries across the Americas.

b) The satellite market has deployed state-of-the-art systems that can utilize a range of frequency bands including the C, Ku, and Ka bands and in the future, additional bands including the V and Q bands.

c) The Member States of CITELE across the Americas should have an understanding what and where broadband satellite service options are available.

DECIDES:

1) To establish a PCC.II Electronic Correspondence Group (CG) within the Satellite Working Group 3.3 for the development of an informational Report on the Satellite Broadband Systems in the Americas.

2) To appoint Mr. Fernando Carrillo, fernando.carrillo@echostar.com, as Coordinator and Mr. Marc Dupuis, marc@oneweb.com, as Alternate Coordinator, of this Satellite Broadband CG.

3) To request that the CG Coordinator contact Members States of CITELE in order to provide information regarding their respective activities on the construction, deployment and operation of satellite broadband systems in the Americas.

4) To request the CG Coordinator to prepare the Report on the Satellite Broadband Systems in the Americas, based on input contributions received from Members States of CITELE, and to submit such Report, and any subsequent updates, to the PCC.II meeting, as appropriate.

¹² CCPII-2017-30-4493_i

**WORK OF THE AD-HOC GROUP TO UPDATE THE INTER-AMERICAN PROPOSAL (IAP)
PROCEDURE AND TO CREATE THE INTER-AMERICAN CONTRIBUTION (IAC)
PROCEDURE**

The 30th Meeting of Permanent Consultative Committee II: Radiocommunications (PCC.II)

DECIDES:

1. That the Ad-Hoc Group to update the Inter-American Proposal procedure and to create the Inter-American Contribution (IAC) procedure should continue its work to create the procedure for Inter-American Contributions to ITU-R Study Groups.
2. To appoint Mr. José de Jesús Arias Franco (jose.arias@ift.org.mx) of the Mexican administration to chair this group and compile information presented by Member States.
3. That the group should develop and conclude its work during the 31 and 32 meetings of PCC.II.
4. To instruct the group chair to prepare and submit a report to the Working Group on Preparation for the World Radiocommunication Conference reflecting the results of the work done.

¹³ CCPII-2017-30-4499_i

VII. LIST OF BASIC DOCUMENTS

1. Summary Minutes of the Inaugural Session and First Plenary Session	PCC.II-RADIO/doc. 4484/17 cor.1
2. Summary Minutes of the Second Plenary Session and Closing Session	PCC.II-RADIO/doc. 4498/17
3. Report of Working Group on Preparation for Regional and World Radiocommunication Conferences	PCC.II-RADIO/doc. 4488/17
4. Report of Working Group on Terrestrial Fixed and Mobile Radiocommunication Services	PCC.II-RADIO/doc. 4489/17 rev.1
5. Report of Working Group on Satellite Systems	PCC.II-RADIO/doc. 4490/17
6. Report of Working Group on Broadcasting	PCC.II-RADIO/doc. 4483/17
7. Report of <i>Ad Hoc</i> Group to Coordinate Projects Associated with Strategic Initiatives of the OAS	PCC.II-RADIO/doc. 4491/17 rev.2
8. Report of Ad Hoc Group for the Identification of Work Priorities, Expected Results, and Possible Improvements in the Participation of Associate Members for the Next PCC.II Study Period	PCC.II-RADIO/doc. 4478/17 rev.2
9. Report of the Seminar on Spectrum Needs for the continual monitoring, control and protection of the Critical Infrastructure used by Utilities	PCC.II-RADIO/doc. 4407/17 rev.1 add.4
10. Report of the Seminar on High Altitude Platform Stations (HAPS) and related WRC-19 considerations	PCC.II-RADIO/doc. 4409/17 rev.1 add.6
11. List of Documents	PCC.II-RADIO/doc. 4381/17 rev.3
12. List of Participants	PCC.II-RADIO/doc. 4382/17 rev.1
13. Final Report for the Meeting	PCC.II-RADIO/doc. 4500/17 rev.1