

Americas Spectrum Issues: CITEL Activities

Inter-American Telecommunication Commission (CITEL)
January 2014

CANTO – 30th Annual General Meeting
“Strategic Alliances for Sustainable Broadband Development”
25-28 January 2014



Organization of
American States



Outline

- **Preparations for WRC-15**
- **Other relevant activities within PCC.II**
 - ✓ Use of bands identified for IMT
 - ✓ Cooperation and convergence between broadcasting and mobile services using LTE networks
 - ✓ Current and planned use of the bands 1 350-1 400 MHz and 1 427-1 525 MHz
 - ✓ Long range planning for bands in the terrestrial mobile service
 - ✓ PPDR based on IMT technologies at 700 MHz
 - ✓ Emergency Communications
 - ✓ Draft Recommendation on the use of the 1 710-1 780/2 110-2 180 MHz bands in the Americas for broadband mobile services
 - ✓ Technical Notebook on “Spectrum Management Material”
- **Next meeting of CITEL PCC.II : 17-21 March 2014**



Working Group to prepare for WRC-15

Chair: Uruguay, Hector Bude
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Vice-Chair: United States of America, Carmelo Rivera
(Carmelo.Rivera@noaa.gov)

Complete documents may be found at:
<https://www.citel.oas.org/en/Pages/PCCII/WRC.aspx>



WRC-15 WG Structure/Coordinators

Working Sub-Group	Issues	Agenda Items	Coordinator	Vice - Coordinator
SGT-1	MOBILE & FIXED	1.1, 1.2, 1.3	Mr. Marco Antonio ESCALANTE-GUATEMALA (marco.escalante@ties.itu.int)	Mr. Jose COSTA – CANADA (jose.costa@ericsson.com)
SGT-2	RADIOLOCATION, AMATEUR, MARITIME & AERONAUTICAL	1.4, 1.5, 1.15, 1.16, 1.17, 1.18	Mr. Jonathan WILLIAMS – UNITED STATES OF AMERICA (jwilliams@ntia.doc.gov)	Mr. Javier GARCIA – DOMINICAN REPUBLIC (jgarcia@indotel.gob.do)
SGT-3	SPACE SCIENCE & MSS	1.10, 1.11, 1.12, 1.13, 1.14, 1.9.2, 9.1.1	Mr. Tarcisio BAKAUS - BRAZIL (bakaut@anatel.gov.br)	Mr. Glenn FELDHAKE – UNITED STATES OF AMERICA (glenn.s.feldhake@nasa.gov)
SGT-4	FSS & SATELLITE REGULATORY	1.6.1, 1.6.2, 1.7, 1.8, 1.9.1, 7, 9.1.2, 9.1.3, 9.1.5, 9.1.8, 9.2*,9. *Satellite issues	Mr. Jerry CONNER – UNITED STATES OF AMERICA (jerry.conner@exelisinc.com)	Ms. Chantal BEAUMIER – CANADA (chantal.beaumier@ic.gc.ca) Mr. Ramiro ROBLEDO – MEXICO (robledo@ift.gob.mx)
SGT-5	GENERAL REGULATORY, FUTURE WORK & OTHER	2, 4, 8, 9.1.4, 9.1.6, 9.1.7, 9.2*, 10 *Non-satellite issues	Mr. Carmelo RIVERA – UNITED STATES OF AMERICA (crivera@doc.gov)	Ms. Martha SUAREZ – COLOMBIA (Martha.suarez@ane.gov.co)

Rapporteurs and alternate Rapporteurs for each agenda item: CCP.II-RADIO/doc. 3399/13 rev.1



INTER – AMERICAN PROPOSALS FOR WORLD RADIOCOMMUNICATION CONFERENCES: DEFINITIONS

- PRELIMINARY VIEWS (**PV**): an informal statement that the Administration is considering possible Preliminary Proposals on specific themes ([CCP.II-RADIO/doc. 3430/13](#)).
- PRELIMINARY PROPOSAL (**PP**): a proposal that a CITEL Member State presents to PCC II with the purpose to turning it into an Inter-American Proposal and that has not been supported by another Member State.
- DRAFT INTER-AMERICAN PROPOSAL (**DIAP**): PRELIMINARY PROPOSAL that has been supported by at least one other Member State (PP: [CCP.II-RADIO/doc. 3431/13](#), DIAP: [CCP.II-RADIO/doc. 3432/13](#)).
- INTER-AMERICAN PROPOSAL (**IAP**): DRAFT INTER-AMERICAN PROPOSAL (DIAP) for which the PCC II has ended its consideration and discussion, has been supported by at least six Members States and is not opposed by more than 50% of the number of supports obtained.

Procedure for the development of IAPs: [Resolution PCC.II/RES. 90 \(XXI-13\)](#)



Proposals

- To-date, proposals in various stages of development exist for the following WRC-15 agenda items:
 - ✓ 1.1 IMT (Resolution **233** (WRC-12))
 - ✓ 1.10 MSS 22-26 GHz (Resolution **234** (WRC-12))
 - ✓ 1.11 EESS 7-8 GHz (Resolution **650** (WRC-12))
 - ✓ 1.13 SRS in 410-420 MHz (Resolution **652** (WRC-12))
 - ✓ 1.17 WAIC (Resolution **423** (WRC-12))

 - ✓ 2 ITU-R Recommendations incorporated by reference
 - ✓ 4 WRC Resolutions and Recommendations review
 - ✓ 7 Satellite procedures
 - ✓ 9.2 Application of the Radio Regulations
 - ✓ 10 Future conference agendas



Agenda Item 1.1: *IMT/terrestrial mobile broadband* Preliminary and Draft Inter-American Proposals

Frequency Range (MHz)	Country	Proposal
410 - 430 MHz	USA	No change in 420-450 MHz
470 - 608 and 614 - 698	Canada and Costa Rica	MS allocation
470 - 698	Argentina, Brazil, Dominican Republic, Ecuador, Nicaragua, and Panamá	No change
3 400 - 3 600	Brazil and Costa Rica	MS allocation + identification for IMT
3 600 - 4 200	Brazil, Nicaragua and Mexico	No change
3 400 - 3 600 and 4 500 - 4 800	Nicaragua	No change

PCC.II will hold an information session on the technical studies and the spectrum requirements developed by the ITU-R on WRC-15 agenda item 1.1, during the XXIII meeting of PCC.II on 17-21 March 2014 – [Decision PCC.II/DEC. 159 \(XXII-13\)](#).



Agenda Item 1.10: MSS, including the satellite component for broadband applications, including IMT 22 GHz to 26 GHz

Draft Inter-American Proposals

Canada/United States

- NOC to Article 5
- SUP Resolution **234** (WRC-12)

For further information contact the coordinator: Mr. Tarcisio BAKAUS - BRAZIL
(bakaut@anatel.gov.br)



Agenda Item 1.11: *EESS (E-s) 7-8 GHz*

Draft Inter-American Proposals

Canada/United States

- MOD Article **5** to add EESS (Earth-to-space) in the 7 190-7 250 MHz band and divide the Table of Frequency Allocation at 7 190 MHz to clarify the allocation of services within the Table.
- MOD No. **5.460** - consequential to dividing the Table at 7 190 MHz
- MOD Article **21** Tables 21-2 and 21-3 - consequential
- MOD Appendix **7** Table 7b - consequential
- SUP Resolution **650** (WRC-12)

For further information contact the coordinator: Mr. Tarcisio BAKAUS - BRAZIL
(bakaut@anatel.gov.br)



Agenda Item 1.13: 5 km distance limitation for proximity operations by space vehicles in the SRS (s-s)

Draft Inter-American Proposals Brazil/Canada/United States

- MOD No. **5.268** to remove 5 km distance separation limit, and remove reference to “extra-vehicular activities”
- SUP Resolution **652 (WRC-12)**

For further information contact the coordinator: Mr. Tarcisio BAKAUS - BRAZIL
(bakaut@anatel.gov.br)



Agenda Item 1.17: *Wireless avionics intra-communications*

Preliminary Proposals (Brazil)

- MOD Article **5** to add AM(R)S allocation at 4200-4400 MHz and new footnote restricting use to WAIC
- MOD No. **5.438** to remove passive EESS and SRS secondary use
- SUP No. **5.440** to remove the use of 4202 MHz for standard frequency and time-signal satellite service

For further information contact the coordinator: Mr. Jonathan WILLIAMS – USA
(jwilliams@ntia.doc.gov)



IMPLEMENTATION PLANS IN THE AMERICAS FOR THE BANDS IDENTIFIED FOR IMT IN THE ITU RADIO REGULATIONS

As a result of [Decision PCC.II/DEC. 96 \(XV-10\)](#) , CITEI PCC.II is investigating the current and planned future use of the bands identified in the Radio Regulations (RR) for International Mobile Telecommunications (IMT).

To-date 24 countries (out of 35 countries in the Americas) have responded to the questionnaire, that is, 69% of the countries, representing 96% of the population and 96% of the area in the Americas.

The work is progressing by correspondence with the objective of preparing a further update of the report for the 17-21 March 2014 meeting of PCC.II.



Countries without information yet

- Antigua and Barbuda
- Barbados
- Belize
- Bolivia
- Cuba
- El Salvador
- Guyana
- Haiti
- Saint Kitts and Nevis
- Suriname
- The Bahamas (Commonwealth of)



Current Report on implementation plans in the Americas for the bands identified for IMT in the ITU Radio Regulations

- Version of 8 November 2013:
CCP.II-RADIO/doc. 3389/13 (Rev. 1)

For further information and to provide updates to the responses to the questionnaire contact the IMT coordinator: José Costa – Canada (jose.costa@ericsson.com)



Cooperation and convergence between broadcasting and mobile services using LTE networks

PCC.II approved [Decision PCC.II/DEC. 163 \(XXII-13\)](#) to post on the public CITEL website the Technical Notebook on “Cooperation and convergence between broadcasting and mobile services using LTE networks”:

English: https://www.citel.oas.org/en/SiteAssets/About-Citel/Publications/Technical_Notebook/P2!R-3339p1_i.pdf

Spanish: https://www.citel.oas.org/en/SiteAssets/About-Citel/Publications/Technical_Notebook/P2!R-3339p1_e.pdf



Current and planned use of the bands 1 350-1 400 MHz and 1 427-1 525 MHz

PCC.II approved [Decision PCC.II/ DEC.162 \(XXII-13\)](#),
“Request for information about the current and planned use of the bands 1 350-1 400 MHz and 1 427-1 525 MHz by the OAS/CITEL administrations for satellite and terrestrial services”.



Long range planning for bands in the terrestrial mobile service

PCC.II approved [Recommendation PCC.II/ REC. 42 \(XXII-13\)](#),
“Long-range planning for bands in the terrestrial mobile
service including those identified for IMT”.

RECOMMENDS:

1. To carry out long-range planning for bands in the mobile terrestrial service, including those identified for use by IMT and other existing uses, while considering the possibility of deploying new, advanced systems as relevant.
2. That OAS/CITEL administrations continue to use frequency arrangements already harmonized for IMT to achieve economies of scale and facilitate roaming.



PPDR based on IMT technologies at 700 MHz

- Following [Decision PCC.II/DEC. 152 \(XXI-13\)](#), PCC.II approved [Recommendation PCC.II/ REC. 41 \(XXII-13\)](#) “PPDR based on IMT systems”, recommending the frequency arrangements A4 and A5 in [Recommendation ITU-R M.1036-4](#), depending on the channel plan they have adopted for the 700 MHz band:
- 1.1 703-748/758-803 MHz (A5 scheme of Recommendation ITU-R M.1036-4)
 - 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 MHz (A4 scheme of Recommendation ITU-R M.1036-4).



Emergency Communications

- CITEC PCC.II took note that the 17th Global Standards Collaboration (GSC-17) meeting reaffirmed Resolution [GSC-17/02](#) on “Emergency Communications” (CCP.II-RADIO/doc. 3384/13).
- The GSC Task Force on Emergency Communications completed the “first phase” of their report on Emergency Communications
http://www.emtel.etsi.org/GSC17-PLN-14a1%20Emergency_Communications_Report.pdf
- Phase II is currently underway.

For further information contact the WP 5A Rapporteur in PCC.II: José Costa – Canada
(jose.costa@ericsson.com)



Draft Recommendation on the use of the 1 710-1 780/2 110-2 180 MHz bands in the Americas for broadband mobile services

Based on input contributions PCC.II continued with the development of a draft Recommendation on the use of the 1 710-1 780 / 2 110-2 180 MHz bands in the Americas for broadband mobile services”. By means of [Decision PCC.II/DEC. 164 \(XXII-13\)](#), PCC.II is requesting, for the next meeting of PCC.II, comments and/or proposals with respect to the draft Recommendation (Annex 1 to document CCP.II-RADIO/doc. 3406/13, embedded below) with the objective of finalizing the draft Recommendation at the XXIII meeting of PCC.II.



Technical Notebook on “Spectrum Management Material”

PCC.II resolved the creation of a Technical Notebook on “Spectrum Management Material” to provide updated and in-depth information on experiences being implemented by Member States in spectrum management-related areas ([Resolution PCC.II/RES. 95 \(XXII-13\)](#)).

It will include information on border area Coordination Agreements of member administrations, spectrum management policy documents, academic papers, articles, and publications by international organizations.



XXIII Meeting of PCC.II

17-21 March 2014
(Colombia)



Thank you very much for your attention

PCC.II/CITEL Representative (jose.costa@ericsson.com)

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