



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

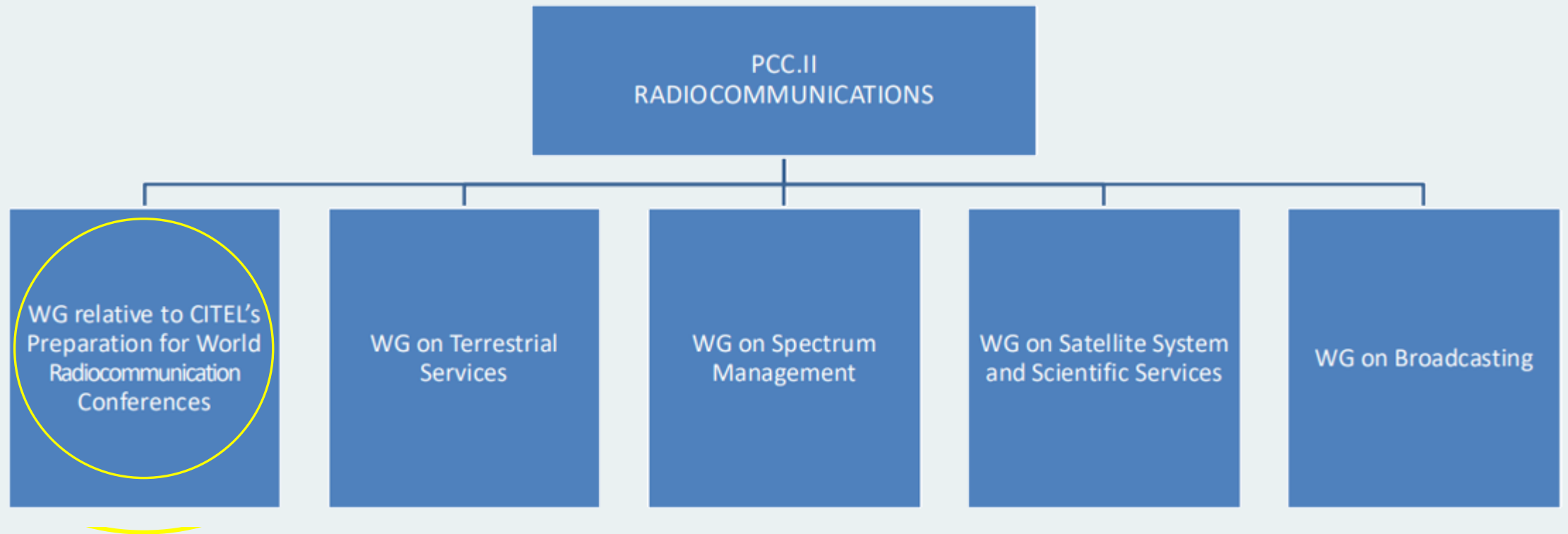
A UN SPECIALIZED AGENCY



Inter-American Telecommunication Commission (CITEL)

Permanent Consultative Committee II:
Radiocommunications (PCC.II)
WRC-27 Preparation

Draft Structure of PCC.II for the period 2022-2026



Working Groups for CITELE's Preparation for WRC

Chairman: Ricardo MARTÍNEZ (CLM). ricardo.martinez@ane.gov.co

Vice-Chairman: Carolina JACQUET (PRG). carolinajacquet@conatel.gov.py

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| SUB-WORKING GROUP | ISSUES | AGENDA ITEMS | COORDINATOR | VICE – COORDINATOR |
|-------------------|---|---|--|---|
| SGT-1 | FIXED AND BROADCAST SATELLITE SERVICES | 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 7, 9.2 (FSS&BSS/SFSSRS), 9.3(FSS&BSS/SFS/SRS) | Luciana FERREIRA (B) lucianarn@anatel.gov.br | Jennifer MANNER (USA) jmanner@ntia.gov |
| SGT-2 | FIXED, MOBILE BROADCAST AND RADIOLOCATION | 1.7, 1.8, 1.9, 1.10, 9.2 (TERR) | Geraldo NETO (B) geraldo@tmgtelecom.com | |
| SGT-3 | MOBILE SATELLITE SERVICE | 1.11, 1.12, 1.13, 1.14, 9.2 (MSS/SMS), 9.3(MSS/SMS) | Michael RAZI (CAN) mrazi@parscom.ca | |
| SGT-4 | SCIENCE SERVICES | 1.15, 1.16., 1.17, 1.18, 1.19 | Edwin MONTES (MEX) edwin.montesdeoca@ift.org.mx | |
| SGT-5 | GENERAL REGULATORY, FUTURE AGENDA ITEMS & OTHER | 2, 4, 10 | Amy SANDERS (USA) asanders@ntia.gov | |

CITEL Working Instruments for the WRC (1 of 2)

- **Preliminary View (PV):** Initial statement that one (1) or more OAS/CITEL Member States make in relation to a specific item on the WRC agenda.
- **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 OAS/CITEL Member State.
- **Draft Inter-American Proposal (DIAP):** a PRELIMINARY PROPOSAL that has been supported by at least one (1) other OAS/CITEL Member State.
- **Inter-American Proposal (IAP):** DRAFT INTER-AMERICAN PROPOSAL, for which the PCC.II has declared the end of its consideration and discussion as early as the LIMIT MEETING but not later than the FINAL MEETING; ; it must be supported by at least 6 (six) Administrations and not opposed by more than 50% (fifty per cent) of the total number of endorsements obtained.

CITEL Working Instruments for the WRC (2 of 2)

- **Modified Inter-American Proposal (IAP-M):** INTER-AMERICAN PROPOSAL submitted to the WRC, but was modified and adopted by CITEL due to the progress of work during the Conference.
- **Inter-American Proposal Developed at a WRC (IAP-N):** Proposal submitted during the course of the WRC, whose contents deals only with and is the result of discussions on:
 - i) the items of the agenda of future Conference or.
 - ii) any position of the Region adopted in response to WRC issues that were not anticipated during preparations prior to the WRC.
- **Limit Meeting:** The penultimate PCC.II meeting before the WRC, where DIAPs and PPs under preparation will be submitted. It is the final opportunity to submit new PPs for all agenda items, **except Agenda Items 2, 4, 9.2, 9.3 and 10.**
- **Final Meeting:** The final PCC.II meeting before the WRC, where DIAPs and PPs previously under preparation will be considered. New PPs may be submitted for agenda items 2, 4, 9.2, 9.3 and 10.

WRC-27 Agenda Item 1.7

- *Agenda Item 1.7 - to consider studies on sharing and compatibility and develop technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz taking into account existing primary services operating in these, and adjacent, frequency bands, in accordance with Resolution 265 (WRC-23);*

- **Preliminary Views (PV)**

Four administrations support the WRC-27 agenda item 1.7 studies aimed at identifying frequency bands for the terrestrial component of IMT. They emphasize ensuring compatibility with existing services, meeting the growing demand for telecommunications, and addressing the needs of developing countries. These administrations also recognize the importance of promoting equitable access to advanced technologies while considering the evolving technological landscape and spectrum efficiency.

Each administration has its specific focus. One prioritizes **network performance and equitable access**, while another stresses **regional harmonization to reduce costs** and build a sustainable ecosystem for IMT deployment. Flexibility is needed to accommodate different national circumstances and protect existing services. Another administration highlights the **need to safeguard current communication systems** while considering technological advances and future spectrum needs. Overall, these administrations call for a balanced approach that **supports IMT growth without compromising existing services**.

WRC-27 Agenda Item 1.9

- *Agenda Item 1.9 – to consider appropriate regulatory actions to update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution 411 (WRC-23);*

- **Preliminary Views (PV)**

Two administrations support the studies requested in **Resolution 411 (WRC-23)** on introducing new technologies that improve performance, such as new emission classes and wideband systems, to the AM(OR)S in the frequency ranges outlined in Appendix 26 of the Radio Regulations. This support is contingent on sharing studies demonstrating that HF wideband systems can ensure compatibility with existing AM(OR)S systems, other primary incumbent services, and adjacent allocations.

WRC-27 Agenda Item 1.11 (1 of 2)

- *Agenda Item 1.11 - to consider the technical and operational issues, and regulatory provisions, for space-to-space links among non-geostationary and geostationary satellites in the frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660 MHz, 1 670-1 675 MHz and 2 483.5-2 500 MHz allocated to the mobile-satellite service, in accordance with Resolution 249 (Rev.WRC 23);*
- **Preliminary Views (PV)**

Three Administrations support the consideration of appropriate technical and regulatory provisions at WRC-27 to address Resolution **249 (Rev. WRC-23)** and provide for accommodating space-to-space links in the frequency bands listed below while ensuring the protection of, and compatibility with, and without imposing additional regulatory or technical constraints on, incumbent services in these bands and adjacent frequency bands, taking into consideration the allocated passive services.

WRC-27 Agenda Item 1.11 (2 of 2)

- **Preliminary Views (PV) Cont.**

These Administrations are also of the view that the studies of space-to-space operations for consideration under this agenda item **should be limited to links operating in the same direction of transmission** as provided in the current allocations for the mobile-satellite service in the frequency bands under consideration, as follows:

- Earth-to-space direction in the frequency bands 1 626.5-1 645.5 MHz and 1 646,5-1 660 MHz;
- Space-to-Earth direction in the frequency bands 1 525-1 544 MHz and 1 545-1 559 MHz;
- Earth-to-space direction in the frequency bands 1 610-1 626.5 MHz and 1 670-1 675 MHz, and
- Space-to-Earth direction in the frequency bands 1 518-1 525 MHz, 1 613.8-1 626.5 MHz and 2 483.5-2 500 MHz.

These Administrations are further of the view that the **existing regulatory framework**, including Article **21** limits, **and operational practices** continue to govern transmissions for the downlink (space-to-Earth) direction, and **should be appropriately applied to the space-to-space transmissions.**

WRC-27 Agenda Item 1.13 (1 of 2)

- *Agenda Item 1.13 - to consider studies on possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage, in accordance with Resolution 253 (WRC-23);*

- **Preliminary Views (PV)**

Four Administrations support studies under the terms of Resolution **253 (WRC-23)** on a **possible new allocation** to MSS in existing frequency bands used or identified for the terrestrial component of IMT in the frequency range **between 694/698 MHz and 2.7 GHz** for **direct connectivity between space stations and IMT user equipment** to complement terrestrial IMT network coverage **while ensuring the protection of incumbent services, including those in adjacent frequency bands**, in accordance with the Radio Regulations, and taking into consideration the frequency arrangements contained in the latest version of Recommendation ITU-R M.1036, with the aim of promoting access to telecommunications services in underserved and unserved areas, as well as in the search to provide forms of access to communities.

These Administrations are of the view that specific existing frequency bands used or identified for the **terrestrial component of IMT between 694/698 MHz and 2.7 GHz need to be selected to define the scope for conducting sharing and compatibility studies** under this Agenda Item. They also note the overlapping frequency bands between Agenda Items 1.12, 1.13, and 1.14, which should also be considered during studies under each of these Agenda Items.

WRC-27 Agenda Item 1.13 (2 of 2)

- **Preliminary Views (PV) Cont.**

In addition, one of these Administrations deems **it is important for possible MSS operations and attributions under WRC-27 AI 1.13 to be consistent with the directionality of frequency arrangements** for the terrestrial IMT indicated in the Recommendation ITU-R M.1036, as it is expected that both the satellite and terrestrial systems shall be communicating with the same terrestrial IMT user equipment.

By virtue of the above, in the Administration's view it is crucial that **any consideration on possible MSS allocations in frequency bands** being examined, or parts thereof, **must ensure the protection of incumbent services allocated on a primary basis, as well as in adjacent frequency bands**. Therefore, it is important to identify technical and operational measures guaranteeing the priority operation, free from harmful interferences, of primary service stations so that they can continue to develop.

This Administration recognizes that each Administration has its own specific needs and that there may be scenarios with different arrangements adopted for the IMT in certain frequency bands, in accordance with the Recommendation ITU-R M.1036, even between neighboring countries. Therefore, the Administration believes it is wise to address these scenarios in the sharing and compatibility studies with incumbent services, for the purpose of substantiating and taking decisions informed by CITELE Administrations.

WRC-27 Agenda Item 1.19

- *Agenda Item 1.19* – to consider possible primary allocations in all Regions to the Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, in accordance with Resolution 674 (WRC-23).
- **Preliminary Views (PV)**

Two administrations presented preliminary views.

One administration supports studies considering possible primary allocations in all Regions to the Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, in order to ensure the long-term continuity of SST measurements, in conjunction with the existing 6/7 GHz frequency range. **Additionally, is of the view that studies should consider the technical and operational conditions of radio altimeters or wireless avionics intra-communication systems in the 4 200-4 400 MHz frequency band,** also emphasizes the significance of sea surface temperature (SST) measurements in detecting and forecasting meteorological events that significantly affect the safety and security of administrations and their populations, and highlights that given the sensitivity of sea surface brightness temperature to frequency, it is deemed appropriate to conduct SST measurements within frequency bands spanning the range of 4-9 GHz.

The second administration deems it is important to underscore the work conducted by ITU-R Study Groups on WRC-27 AI 1.19, to ensure that propagation and sharing characteristics between incumbent systems and those systems engaged in an allocation update do not cause any constraint whatsoever to any of the services being studied.

**45th. Meeting of PCC.II
México, June 2 to 6, 2025**

Thank You

