Status of CITEL's Preparations for WRC-19

Inter-American Telecommunication Commission (CITEL)
Permanent Consultative Committee II
As of 8 – 12 April, 2019 Meeting

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Working Group within PCC.II

Chair

- Carmelo Rivera, **United States** (carmelo.rivera@noaa.gov)

Vice-Chairs

- Victor Martinez, **Mexico** (victor.martinezv@ift.org.mx)
- Fabian Herrera, **Colombia** (fabian.herrera@ane.gov.co)

WRC Working Group Structure

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SGT1

- **Mobile & Fixed** (1.11, 1.12, 1.13, 1.14, 1.15, 1.16, 9.1 (9.1.1, 9.1.2, 9.1.5, 9.1.6, 9.1.8)) - **Coordinators**: Luciana CAMARGOS (**Brazil**) and Jose COSTA (**Canada**)

SGT2

- **2A: Amateur, Maritime & Aeronautical** (1.1, 1.8, 1.9, 1.10, 9.1.4)) - **Coordinator:** Michael RAZI (**Canada**)
- **2B: Space Science** (1.2, 1.3 and 1.7) - **Coordinator**: Corali ROURA (**USA**)

SGT3

- **Satellite Regulatory** (1.4, 1.5, 1.6, 7, 9.1 (9.1.3, 9.1.7, 9.1.9), 9.2 (satellite), 9.3) - **Coordinators:** Brandon MITCHELL (**USA**) and Chantal BEAUMIER (**Canada**)

SGT4

- **General Regulatory, Future Work & Other** (2, 4, 8, 9.2 (non-satellite), 10) - **Coordinators:** Victor MARTINEZ (**Mexico**) and Fabian HERRERA (**Colombia**)

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Inter – American Proposals : Definitions

PRELIMINARY PROPOSAL (PP): a proposal by a CITEL Member State that has not been supported by another Member State.

DRAFT INTER-AMERICAN PROPOSAL (DIAP): PP that has been **supported by at least one other** Member State.

INTER-AMERICAN PROPOSAL (IAP): DIAP supported by at least six Members States **and not opposed by more than 50%** of the number of supports obtained.

Meeting Schedule

Dates/Location	WRC-19 CITEL WG Action Plan
April 8-12, 2019 Monterrey, Mexico	**- Limit meeting to submit new proposals** (with exception for proposals on future agenda items, 2, 4 and 9.2) - DIAPs and IAPs are circulated to all Member States
August 12-16, 2019 Ottawa, Canada	- **Final meeting to gain support for preliminary proposals** - Only DIAPs of future agenda items and IAPs are circulated to all Member States

Overall Status of Preparations

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Seven meetings to date

- Discussed virtually all 24 agenda items and 30 sub-issues

Ended discussion and agreed to forward the following agenda item IAPs to the ITU:

- **1.1 - 50-54 MHz amateur service in Region 1**
- **1.11 – Railway train and trackside radiocommunications**
- **1.12 – Intelligent Transport Systems**
- **1.16 – WAS/RLAN (5250-5350 MHz, 5350-5470 MHz, 5850-5925 MHz)**
- **9.1 (9.1.2) – IMT and BSS 1452-1492 MHz in Regions 1 and 3**
- **9.1 (9.1.8) – Machine Type communications**

Overall Status of Preparations

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CTU Spectrum Management Task Force (SMTF) Priorities

- SMTF selected 18 Agenda Items and placed them in priority order

WRC-19 Agenda Items identified as priority for the Caribbean:

- **Group A: 1.13, 1.14 and 9.1 (Issue 9.1.9)**
- **Group B: 1.16 and 9.1 (Issue 9.1.5)**
- **Group C: 1.2, 1.3 and 1.7**
- **Group D 1.9.1, 1.9.2 and 1.8**
- **Group E 1.10**
- **Group F 7, 1.11, 1.12, 9.1 (Issues 9.1.1, 9.1.2) and 10**

Mobile and Fixed - 1.13

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IMT identification between 24 and 82 GHz

Various proposals under consideration

Frequency Band (GHz)	New identification	NOC
24.25-27.5	**IAP** for 24.25-27.5 GHz **PP** for 24.65-25.25 GHz and 27-27.5 GHz (supplements IAP) **PP** for 24.65-27.5 GHz	
31.8-33.4		**IAP**
37-40.5/40.5-42.5/42.5-43.5	**DIAP** for 37-43.5 GHz **PPs** for 37-40 GHz and 42-43.5 GHz	**PP** for 40-42 GHz
45.5-47/47-47.2/47.2-50.2/50.4-52.6	**DIAP** for 47.2-48.2 GHz **PP** for 47.2-48.2 GHz (supplement) **PP** for 50.4-52.6 GHz	**DIAP** for 45.5-47/47-47.2/48.2-50.2 GHz
66-71	**PP** for 66-71 GHz	**DIAP** for 66-71 GHz
71-76/81-86		**IAP**

Mobile and Fixed - 1.14

High Altitude Platforms (HAPS)

Various proposals under consideration

Frequency Band	Identification	NOC
6 440-6 520 / 6 560- 6 640 MHz	**DIAP** for 6440-6520 MHz (1B1 option 1)	**PP** for 6440-6520 MHz **DIAP/PP** for 6560-6640 MHz
21.4-22 GHz	**IAP** for 21.4-22 GHz (3B2 option 1b) **PP** for 21.5-22 GHz (3B2 option 2 secondary)	
24.25-27.5 GHz	**DIAP** for 24.25-25.25 GHz (4B3 option 2) **DIAP** for 25.25-27 GHz (5B2 option 2 + HAPS UL) **PP** for 25.25-27.5 GHz (5B2 option 3 secondary)	**PP** 24.25-25.25 GHz
27.9-28.2 / 31-31.3 GHz	**DIAP** for 27.9-28.2 GHz (6B1 option 1) **DIAP** for 31-31.3 GHz (7B1 options 1a+1b) **PP** for 27.9-28.2 GHz and 31-31.3 GHz (secondary)	
38-39.5 GHz	**IAP** for 38-39.5 GHz (8B2 option 1c) **PP** for 38-39.5 GHz (8B2 option 2 UL secondary)	
47.2-47.5 / 47.9-48.2 GHz	**DIAP** for 47.2-47.5/47.9-48.2 GHz (9B1 Res. Ex. 2) **PP** for 47.2-47.5/47.9-48.2 GHz (9B1 Res. Ex. 1)	

9.1.9 –FSS allocation in the 50.4-51.4 GHz band, DIAP supporting Example 1 for a new primary allocation limited to GSO FSS gateways with a minimum antenna diameter of 4.5 meters and proposed limits to protect EESS (passive). One proposal supports no change under this issue.

9.1.5 – Regulatory Impacts on RLAN/radar operation: An **IAP** modifying footnotes 5.447F and 5.450A to refer to conditions in footnote 5.446A instead of ITU-R Recommendations.

Mobile and Fixed - 1.16

Review of RLANs in portions of 5 GHz band

Various proposals under consideration

Frequency Band	MOD	NOC
5150-5250 MHz	**IAP** to modify Res **229** (Method A2) **PP** Method A6	**PP**
5250-5350 MHz		**IAP (sent to ITU)**
5350-5470 MHz		**IAP (sent to ITU)**
5725-5850 MHz	**PP** for primary mobile allocation FN **PP** for secondary mobile allocation FN	**IAP**
5850-5925 MHz		**IAP (sent to ITU)**

Space Science

Various DIAPs and proposals under consideration

1.2 – Power limits for MetSat, EESS and MSS earth stations around 400 MHz: For the band 399.9-400.05 MHz, **DIAP** supporting Method D and **PP** for a modified Method B. For the 401-403 MHz band, **DIAP** supporting a modified Method G and a **PP** supporting Method F.

1.3 – Upgrade MetSat and new EESS allocations in 460-470 MHz band: DIAP supporting an upgrade to the MetSat allocation to primary and a new primary EESS allocation; it is largely aligned with Method C. **PP** for NOC in the band.

1.7 – Spectrum in 150.05-174 MHz and 400.15-420 MHz to control NGSO satellites with short duration missions: DIAP for NOC, and **PP** that supports the identification of frequency bands 137-138 MHz, 148-149.9 MHz and 404-405 MHz for tracking, telemetry and command links.

Maritime

IAP, DIAPs and various proposals under consideration

1.8 Issue A GMDSS: Mix of 3 PPs based on Method A2.

Issue B – Additional satellite system: **IAP** supporting Method B1 to amend Article **5**, Table **15-2** of Appendix **15**, No. **33.50** and No. **33.53** of Article **33** to enable the introduction of an additional GMDSS satellite system in the band 1616-1626.5 MHz.

1.9.1 –Maritime Autonomous Radio Devices (AMRDs) in the 156-162.05 MHz band: **DIAP** for Group A based on the single CPM Method; Proposals for Group B are based on Method B1 with 160.900 MHz identified.

1.9.2 – Satellite VHF Data Exchange System (VDES): 3 PPs are being considered based on Method C (secondary allocation for VDE-SAT MMSS uplink and downlink frequencies) and a proposal supporting Method F for a primary MMSS allocation.

Aeronautical

IAPs under consideration

1.10 – Global Aeronautical Distress and Safety System (GADSS):
IAP supporting Method A which introduces GADSS in Article **30**, under Chapter **VII**, and establishes a new Article **34A** outlining the applicable regulatory framework.

Satellite Regulatory (cont'd)

7 – Review of satellite regulatory procedures

IAP on **Issue C5** and **DIAPs** on all other issues with a single CPM Method (i.e. **Issues B, C1, C2, C3, C4, C6, C7, E, H** and **K)**

Issue A: DIAP supporting Option B for bringing into use requirements with the period still under discussion (30 vs 90 days); Options D and E are under consideration for milestones. Further discussion required on some services and bands to be included as well as on the consequences for not meeting deployment requirements.

Issue D: DIAP for Method D1 to publish a definitive list of satellite networks.

Issue F: PP for Method F3 with F1 or F2, another supports Method F1 alone.

Issue I: DIAP supporting I2 with the maximum number of satellites to comprise the short duration mission NGSO system still under discussion (i.e. 3 or more).

Issues G and J: DIAPs for No Change with respect to the Region 2 Plans.

Future Work

10 – Future WRC Agendas

WRC-23 Agenda: **Proposal** establishing a skeleton Resolution outlining the WRC-23 agenda. Resolution **810** is suppressed and replaced with a new Resolution.

FSS 17.3-17.7 GHz: **Proposal** to consider a new primary allocation to the fixed satellite service in the 17.3-17.7 GHz band in Region 2, while protecting primary services in the band.

NGSO FSS 71-76 GHz and 81-86 GHz: **Proposal** to develop regulatory provisions for NGSO FSS in the 71-76 GHz (s-E)and 81-86 GHz (E-s) limited to gateway links and earth stations.

FSS 37.5 – 39.5 GHz: **Proposal** to suppress the proposed agenda item 2.4 on FSS "reverse band" operation in the frequency band 37.5 –39.5 GHz.

AMS(R)S VHF: **DIAP** to consider an AMS(R)S allocation for both the uplink and downlink of aeronautical VHF applications.

Future Work

10 – Future WRC Agendas

NGSO FSS 18.6 – 18.8 GHz: **Proposal** to study the technical and regulatory provisions for NGSO FSS operating in 18.6 – 18.8 GHz with an orbital apogee less than 20, 000 km.

NGSO ESIMs: **DIAP** to consider the use of the frequency bands 17.7-20.2 GHz and 27.5-29.1 GHz and 29.5-30.0 GHz by earth stations on mobile platforms communicating with non-geostationary space stations in the fixed-satellite service.

Space Weather: **DIAP** to consider studies relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations and protection for space weather sensors, including possible additional spectrum allocations and regulatory provisions , without placing additional constraints on incumbent services.

Sub-orbital vehicles: **DIAP** to consider regulatory provisions to facilitate radiocommunications for sub-orbital vehicles.

Additional Information and Proposal Details at:

https://www.citel.oas.org/en/Pages/PCCII/WRC.aspx (publicly available)

https://www.citel.oas.org/en/Pages/PCCII/default.aspx (requires account)

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Thank you very much for your attention

PCC.II/CITEL Representative

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