CEPT ECC
Electronic Communications Committee

WRC-23 FIXED AND MOBILE ISSUES

Steve Green, ECC PT1 Chair

WRC-23 Agenda items AI 1.1, 1.2, 1.3, 1.4
and issue 9.1 topic c

ECC PT1

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ECC PT1 is tasked by CPG to work on WRC-23 Agenda items 1.2, 1.3, 1.4 and RR Article 21 issues A and B

CPG PTA is responsible for Issue 9.1c

CPG PTC is responsible for AI 1.1

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Interim CEPT Coordinator:
Martin WEBER (D)

WRC-23 Agenda item 1.1

to consider, based on the results of the ITU-R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. ***5.441B*** *in accordance with Resolution* ***223 (Rev.WRC-19)***

Background

WRC-15

- IMT identification in 4800 – 4990 MHz for 3 Administrations in RR No. 5.441B
- With a pfd Limit for the protection of station at Sea

The decision at WRC-19 was:

- to extend the identification for IMT in footnote 5.441B to 37 countries having requested it;
- to include criteria for the application of 9.21 (e.g. 450 km for maritime path);
- to use the pfd limit for 29 countries (including for 10 countries not having sea coast), and not use pdf limit for 11 countries;
- to have a new Agenda Item on this issue in accordance with Res 223 (Rev.WRC-19)

Interim CEPT Coordinator:
Martin WEBER (D)

WRC-23 Agenda item 1.1

to consider, based on the results of the ITU-R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. ***5.441B*** *in accordance with Resolution* ***223 (Rev.WRC-19)***

Preliminary CEPT position

CEPT is of the view that, AMS and MMS stations located in international airspace or waters and operated in the band 4800-4990 MHz shall be protected on the basis of the pfd limit provided in RR No. **5.441B**, which will be reviewed taking into account all detailed AMS and MMS characteristics and protection criteria.

CEPT Coordinator:
Tuck POON (G)

WRC-23 Agenda item 1.2 (1/3)

*to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **245 (WRC-19)***

Preliminary CEPT position

3300-3400 MHz (Amend Footnote in Region 1)

CEPT does not support amendments to footnotes **5.429A** and **5.429B** which could extend them to countries north of 30° parallel north. Thus, CEPT does not support an IMT identification for the entire Region 1. Furthermore, CEPT opposes amending the footnote to change the regulatory provisions applicable to IMT stations in the band. In particular, IMT stations shall not cause harmful interference to, or claim protection from, systems in the radiolocation service in various national and international operational environments and shall meet unwanted emission levels specified in the relevant ITU-R Recommendations. In addition, protection of FSS in the frequency band 3400-3800 MHz should also be ensured, as appropriate.

CEPT Coordinator:
Tuck POON (G)

WRC-23 Agenda item 1.2 (2/3)

*to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **245 (WRC-19)***

Preliminary CEPT position (cont.)

3300-3400 MHz (Region 2)

CEPT supports maintaining the regulatory provisions in the footnotes Nos. **5.429C** and **5.429D** applicable to IMT stations in this band. In particular, IMT stations shall not cause harmful interference to, nor claim protection from, systems in the radiolocation service in various national and international operational environments, and shall meet unwanted emission levels specified in the relevant ITU-R Recommendations.

3600-3800 MHz (Region 2)

To be developed

6425-7025 MHz (Region 1)

To be developed

CEPT Coordinator:
Tuck POON (G)

WRC-23 Agenda item 1.2 (3/3)

*to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **245 (WRC-19)***

Preliminary CEPT position (cont.)

7025-7125 MHz (Globally)

To be developed

10000-10500 MHz (Region 2)

CEPT is of the view that the result of a possible identification of the frequency band 10-10.5 GHz in Region 2 under this agenda item may have a global impact on EESS (active) in the band 10.0-10.4 GHz, as well as EESS (passive) in the band 10.6-10.7 GHz, due to the required protection of these services on a global basis. Therefore, CEPT is of the view that protection of EESS (active) and EESS (passive) systems should be ensured and identification of 10.0-10.5 GHz frequency band or parts of it for IMT in Region 2 should not impose any additional regulatory or technical constraints to EESS (active) and EESS (passive) stations because of their global coverage. It may have also an impact on airborne and naval radars operated by some CEPT countries in all Regions.

CEPT Coordinator:
Claudia CARCIOFI (I)

WRC-23 Agenda item 1.3

*to consider primary allocation of the band 3 600-3 800 MHz to mobile service within Region 1 and take appropriate regulatory actions, in accordance with Resolution **246 (WRC-19)***

Preliminary CEPT position

CEPT is considering an upgrade of the allocation of the frequency band 3600-3800 MHz to the mobile, except aeronautical mobile, service on a primary basis in Region 1 to improve opportunities for the introduction of MS applications in Europe.

This consideration is subject to the conditions that the current use in the frequency bands 3400-3800 MHz and the protection of primary services, under the existing CEPT regulatory framework, can be continued, and that no undue constraints are imposed on the existing services and their future development.

In consequence, CEPT supports that the technical and regulatory conditions applicable to the band 3400-3600 MHz, in particular the pfd limit of -154.5 dBW/m²/4 kHz not to be exceeded for more than 20% of time 3 m above ground at the border to protect the neighbouring countries, are one part of the technical conditions in response to WRC- 23 Agenda item 1.3, recognising that sharing studies are required in ITU-R to ensure that the full objective of Resolution **246 (WRC-19)** is met.

Interim CEPT Coordinator:
Steve GREEN (G)

WRC-23 Agenda item 1.4

*to consider, in accordance with Resolution **247 (WRC-19)**, the use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level*

Preliminary CEPT position

To be developed

Issue

This agenda item is about use of existing mobile IMT bands by high-altitude platform stations to provide connectivity in areas that could be difficult to cover using ground-based networks. This will encompass

- spectrum needs for HIBS
- sharing and compatibility studies in 694-960 MHz, 1 710-1 885 MHz and 2 500-2 690 MHz
- possible modification to the existing HAPS identification in the 2 GHz IMT bands
- the definition of high-altitude platform stations as IMT base stations (HIBS)

CEPT Coordinator:
Nasarat ALI (G)

WRC-23 Agenda item 9.1, topic c (1/2)

*Study the use of International Mobile Telecommunication system for fixed wireless broadband in the frequency bands allocated to the fixed services on primary basis, in accordance with Resolution **175 (WRC-19)***

Preliminary CEPT position

CEPT is of the view that:

- the work on this topic should focus on consideration of broadband fixed wireless access (BFWA) that use IMT technologies under the existing regulatory framework of the FS;
- definition for “BFWA using IMT technologies” is necessary to avoid misunderstanding with the term “IMT system”;
- the usage of IMT systems in the fixed service is not compliant with the Radio Regulations;
- BFWA that use IMT technologies as well as other technologies in the frequency bands allocated to the fixed service can be adequately addressed, if necessary, through an update of appropriate existing ITU-R Recommendations/Reports/Handbooks;
- given the existing provisions of the Radio Regulations and taking a technology neutral approach there is no need to consider/study specific frequency bands under this topic;
- the development of new ITU-R Recommendations/Reports should only be considered, if necessary, based on the outcome of a review of existing ITU-R Deliverables;
- this work falls under the scope of ITU-R Working Parties 5A and 5C.

CEPT Coordinator:
Nasarat ALI (G)

WRC-23 Agenda item 9.1, topic c (2/2)

*Study the use of International Mobile Telecommunication system for fixed wireless broadband in the frequency bands allocated to the fixed services on primary basis, in accordance with Resolution **175 (WRC-19)***

Preliminary CEPT position

In conclusion, CEPT opposes any changes to the RR in response to WRC-23 Agenda item 9.1, topic c.

CEPT considers that discussions on fixed wireless broadband applications that use IMT technologies, as any other technologies, should take place in ITU-R WPs 5A and 5C (not other ITU-R WPs) to avoid fragmentation of work and to ensure efficient working within ITU-R.

Next meeting

ECC PT1

Agenda items 1.2, 1.3, 1.4 and Article 21 (issues A and B)

18-20 January 2022, hybrid meeting: Copenhagen & online

https://cept.org/ecc/groups/ecc/ecc-pt1/