**Report of the Agenda Item Coordinator during WRC-19**

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1. Agenda Item

1.14 to consider, on the basis of ITU-R studies in accordance with Resolution 160 (WRC 15), appropriate regulatory actions for high-altitude platform stations (HAPS), within existing fixed-service allocations;

Resolution 160 (WRC 15) – Facilitating access to broadband applications delivered by high altitude platform stations

1. APT Common Proposals and APT Views for WRC-19 (which has been submitted to WRC-19)

APT Members support no changes to the Radio Regulations (Method A as contained in the CPM Report) to ensure protection of all existing services to which frequency bands are allocated and their future development in the frequency bands 6 440-6 520 MHz and 6 560-6 640 MHz.

In addition, APT Members are of the view that any consideration of the frequency band 24.25-27.5 GHz in Region 2 under this agenda item should not limit the possibility to identify the band for IMT on a global basis under WRC-19 agenda item 1.13.

APT Members consider that protection of all existing services to which frequency bands are allocated and their future development should be ensured.

No consensus was reached among APT Members on any Method to address this agenda item in the frequency bands 27.9-28.2 GHz, 31-31.3 GHz, 38-39.5 GHz, 47.2-47.5 GHz and 47.9-48.2 GHz.

1. Topics proposed by other regional Groups or ITU Members which are not included in no. 2 above
2. Progress of discussion during WRC-19 on the Agenda Item
* WG 4B3 continued conducing its work under Method B for all concerning bands, while NOC and SUP are still on the table, the meeting expects only one solution could be reached on 4B3 level.
* The progress having been made for each band to date (except Region 2 bands).
* **6GHz (6 440-6 520 MHz)**

 **Alternatives:**

 1. Alternative 1(NOC)

 2. Alternative 2(Worldwide identification HAPS to ground)

 3. Alternative 3(Suppression of the existing identification)

 **Alternative 2:**

 **Footnote:** 2 Options are under consideration.

 **Resolution: ADD** DRAFT NEW RESOLUTION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | FS | MS | FSS | EESS(p) |
| status in *resolve* | √ | √ | [TBD] | √ |

* **6GHz (6 560-6 640 MHz)**

 **Alternatives:**

1. Alternative 1(NOC)

 2. Alternative 2(HAPS to ground apply to countries in existing footnote)

3. Alternative 3(Suppression of the existing identification)

 **Alternative 2**

 **Footnote:** 1 Option is under consideration.

 **Resolution: MOD** RESOLUTION 150

|  |  |  |  |
| --- | --- | --- | --- |
|  | HAPS gateway station Antenna Pattern | FSS | EESS(p) |
| status in *resolve* | √ | √ | √ |

* **28GHz (28.9-29.2 GHz)**

 **Alternatives:**

1. Alternative 1(NOC)

 2. Alternative 2(Worldwide identification HAPS to ground)

3. Alternative 3(Country footnote)

4. Alternative 4(Suppression of the existing identification)

 **Alternative 2**

 **Footnote:** 3 Options are under consideration

 **Resolution:** **SUP** RESOLUTION 145 and **ADD** DRAFT NEW RESOLUTION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | FS | FSS station | MS | FSS(E-s) |
| status in *resolve* | [TBD] | √ | [TBD] | [TBD] |

* **31GHz (31.0-31.3 GHz)**

 **Alternatives:**

1. Alternative 1(NOC)

 2. Alternative 2(Worldwide identification HAPS to ground and ground to HAPS)

3. Alternative 3(Worldwide identification ground to HAPS)

4. Alternative 4(Worldwide identification for HAPS downlink)

5. Alternative 5(Country footnote)

6. Alternative 6(Suppression of the existing identification)

 **Alternative 2**

 **Footnote:** 3 Options are under consideration.

 **Resolution: ADD** DRAFT NEW RESOLUTION

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | FS | FS station | EESS(p) | RAS  | coordination |
| status in *resolve* | [TBD] | √ | √ | [TBD] | [TBD] |

* **38GHz (38.0-39.5 GHz)**

 **Alternatives:**

1. Alternative 1(NOC)

 2. Alternative 2(Worldwide identification HAPS to ground and ground to HAPS)

3. Alternative 3(Worldwide identification ground to HAPS)

 **Alternative 2**

 **Footnote:** 1 Option is under consideration.

 **Resolution: ADD** DRAFT NEW RESOLUTION

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | FS | FS station | MS | FSS GSO Earth Station  | FSS NGSO | SRS |
| status in *resolve* | [TBD] | √ | [TBD] | [TBD] | √ | [TBD] |

**Alternative 3**

 **Footnote:** 2 Options are under consideration.

 **Resolution: ADD** DRAFT NEW RESOLUTION

* **47GHz (47.2-47.5 GHz & 47.9-48.2 GHz)**

 **Alternatives:**

1. Alternative 1(NOC)

 2. Alternative 2(Amendments to the existing provisions)

3. Alternative 3(Suppression of the existing identification)

 **Alternative 2**

 **Footnote:** 2 Options are under consideration.

 **Resolution: ADD** DRAFT NEW RESOLUTION

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | FSS(E-s) | HAPS ground station antenna pattern | FS | MS  | RAS |
| status in *resolve* | [TBD] | √ | √ | [TBD] | [TBD] |

1. Issues which require discussion at APT Coordination Meetings and seek guidance thereafter
2. The APT Common Proposal for 6GHz bands is NOC, as the technical discussion continues, under method B in CPM text, the meeting will likely be converging to a global or regional footnote(s) and associated resolution(s) at least for 6 440-6 520 MHz, the position of NOC as ACP would remain unchanged unless administration(s) have the intention to alter position. In case of any position change might take place, administrations are kindly invited to review the draft to see if their concern could be technically resolved.
3. For other bands APT don’t have common proposals, administrations are also invited to participate in the discussion and to review the drafts, thus APT members could decide whether possible ACP(s) could be formed in the later stage.

*Note: Coordinators are encouraged to conduct informal consultation with interested APT Members on the issues/topics under no. 3 and inform the outcomes of consultation to the Coordination Meeting*. *Coordinators can also organize coordination meetings on the respective agenda items whenever necessary.*