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| **The 5th Meeting of the APT Conference Preparatory Group for WRC-23 (APG23-5)** | **APG23-5/INP-xx** |
| 20 – 25 February 2023, Busan, Republic of Korea | xx February 2023 |

Thailand (Kingdom of)

**preliminary views on WRC-23 agenda items 9.1 topic b, 9.1 topic c and 10**

**Agenda Item 9.1 topic b):**

*Review of the amateur service and the amateur-satellite service allocations in the frequency band 1 240-1 300 MHz to determine if additional measures are required to ensure protection of the radionavigation-satellite (space-to-Earth) service operating in the same band in accordance with Resolution* ***774 (WRC-19)***

**1. Background**

Resolution **774 (WRC-19)** resolves to invite ITU-R

1 to perform the detailed review of the different systems and applications used in the amateur service and amateur-satellite service allocations within the frequency band 1 240 1 300 MHz;

2 taking into account the results of the above review, to study possible technical and operational measures to ensure the protection of RNSS (space-to-Earth) receivers from the amateur and amateur-satellite services within the frequency band 1 240-1 300 MHz, without considering the removal of these amateur and amateur-satellite services allocations.

ITU-R Working Party (WP) 5A was identified as the responsible group for this agenda item, together with WP 4C and WP 3M as the contributing groups. WP 4C is responsible for the detailed interference analysis between stations of the amateur service and receivers of the radionavigation-satellite service. WP 5A is also responsible for the review amateur service applications and development of appropriate and relevant parameters of amateur service stations for the studies undertaken by WP 4C.

The draft CPM text for agenda item 9.1 topic b) proposes to use new Recommendation
ITU-R M.[AS.GUIDANCE] that is under developing by ITU-R as guidelines in order to avoid such cases of harmful interference to the RNSS receivers in the future. This Recommendation could include, inter alia, encouragement of the use of specific sub-bands with sufficient frequency offsets from the spectrum main lobes of RNSS signals to enhance the protection of RNSS receivers in the bands under consideration.

These guidelines are intended to assist administrations and the amateur and amateur-satellite services to ensure the protection of the RNSS (space-to-earth) in the frequency band 1 240-1 300 MHz.

**2. Preliminary Views**

Thailand supports the draft CPM text for agenda item 9.1 topic b), and the development of guidelines in new ITU-R recommendations to protect RNSS (space-to-Earth) receivers from the amateur and amateur-satellite services in the frequency band 1 240-1 300 MHz without considering the removal of the amateur and amateur-satellite service allocations. Thailand supports no change to the Radio Regulations under agenda item 9.1 topic b).

**Agenda Item 9.1 topic c):**

*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)***

**1. Background**

ITU RR **Article 1.20** defines “fixed service” as “A radiocommunication service between specified fixed points”.

ITU-R Recommendation ITU-R F.592 defines “Fixed wireless system (FWS)” as “Telecommunication systems operating in the fixed service including, for example, radio-relay systems, HF systems, and systems using high altitude platform stations (HAPS), and which support a range of applications such as access and core transport” and defines “Fixed wireless access (FWA)” as “Fixed wireless system application in which the location of the end-user termination and the network access point to be connected to the end-user are fixed”. (See also ITU-R F.1399)

WRC-19 invited ITU-R to study on the use of IMT systems for fixed wireless broadband in the frequency bands allocated to the fixed service on primary basis, taking into account the relevant ITU-R studies, Handbooks, Recommendations and Reports. Working Party (WP) 5A and WP 5C have been assigned as joint responsible groups for this topic. The current studies include discussing on working scope and timeline as well as identifying the relevant ITU-R studies, Handbooks, Recommendations and Reports on fixed wireless broadband to be reviewed and/or updated.

The draft CPM text for agenda item 9.1 topic c) proposes 2 approaches as a way forward

Approach 1:

Proceed with development of new ITU-R Recommendation(s), Report(s) and Handbook through submission of contribution to the subsequent relevant ITU-R meetings in that regard. Such a contribution should include arguments that current ITU-R Recommendation(s), Report(s) and Handbook either do not address or do not adequately address the objectives of WRC-23 agenda item 9.1, topic c), as referred to in the above-mentioned Resolution;

Approach 2:

Proceed with the revision of Recommendation(s), Report(s) and Handbook through submission of contribution to relevant ITU-R subsequent meetings. Such a contribution should include arguments that current Recommendation(s), Report(s) and Handbook cover partially or adequately the objectives of WRC-23 agenda item 9.1, topic c) as referred to in Resolution 175 (WRC-19). Upon receipt of the above-mentioned contributions WPs 5A and 5C would proceed accordingly.

The draft CPM text for agenda item 9.1 topic c) also concludes 2 alternatives as a response to the objectives of Resolution **175 (WRC-19)**

Alternative 1:

Resolution **175 (WRC-19)** needs to be revised to continue conducting the studies requested by WRC-23 agenda item 9.1, topic c), or draft a new Resolution for WRC-27;

Alternative 2:

There is no need to have any draft new or revised Resolution on this matter in the draft CPM text.

**2. Preliminary Views**

Thailand supports no change to Radio Regulations under agenda item 9.1 topic c) with a view that the use of IMT technologies for fixed wireless broadband can be accommodated by the modification to existing or the development of new ITU-R Recommendation(s), Report(s) and Handbook. Thailand considers that the activities could be carried out as a part of regular work of ITU-R study groups and it is thus not necessary to have a draft new or revised Resolution on this matter in the draft CPM text.

**Agenda Item 10:**

*to recommend to the Council items for inclusion in the agenda for the next WRC, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the Convention and Resolution* ***804 (Rev.WRC-​19)***

**1. Background**

Agenda Item 10 is a standing item related to agenda items for the next WRC and future conferences. Resolution **804 (Rev.WRC-19)** contains principles for establishing agendas for world radiocommunication conferences and invites administrations to use the template in Annex 2 to this Resolution in proposing agenda items for WRCs and to participate in regional activities for the preparation of future WRC agendas. Resolution **812 (WRC-19)** contains preliminary agenda for WRC-27.

**2. Preliminary Views**

**Preliminary agenda items for WRC-27 contained in Resolution 812 (WRC-19)**

Thailand is of the view to support preliminary agenda item 2.3 for WRC-27 listed in Resolution **812 (WRC-19)**.

**New agenda item for WRC-27**

Thailand supports an establishment of a new WRC-27 agenda item for ITU-R study to review the use of the frequency band 13.75-14 GHz (Earth-to-space) by the geostationary fixed-satellite service (GSO FSS) and accordingly revise RR Nos. **5.502** and **5.503**, taking into account the protection of existing services allocated on a primary basis in the same frequency band and, as necessary, adjacent frequency bands.

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