|  |  |
| --- | --- |
| **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | A close up of a sign  Description automatically generated |
|  |  |
|  |  |
| Source Document: APG23-6/OUT-52(Rev.1) | **Addendum 7 to Document xx(Add.25)-E** |
|  | **19 August 2023** |
|  | **Original: English** |
|  | |
| Asia-Pacific Telecommunity Common Proposals | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 10 | |

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

Resolution **804 (Rev.WRC-19)** - Principles for establishing agendas for world radiocommunication conferences

**Introduction**

APT Members are of the view that should the agenda of WRC-27 includes preliminary agenda item 2.12, it is necessary that supporting Resolution for this item includes, *inter alia*, protection of services to which the band is allocated as well as services in the adjacent band.

APT Members support the following preliminary agenda item for WRC-31.

**Proposals**

ADD ACP/xxA25A7/1

RESOLUTION [ACP/AI10] (WRC‑23)

Preliminary agenda for the 2031 World Radiocommunication Conference

The World Radiocommunication Conference (Dubai, 2023),

…

2 on the basis of proposals from administrations and the Report of the Conference Preparatory Meeting, and taking into account of the results of WRC‑27, to consider the following items and take appropriate action:

2.x the use of existing International Mobile Telecommunications (IMT) identifications within the frequency ranges [3 400-3 600 MHz] and [3 600- 3 700MHz] with a view of the possible removal of the limitation regarding aeronautical mobile for the use of IMT user equipment by non-safety applications, where appropriate, in accordance with [Resolution **251 (Rev.WRC-23)**]/**[[Aerial IMT] (WRC-23)]**;

MOD ACP/xxA25A7/2

resolution [251 (Rev.WRC‑23)]/[ [AERIAL imt (WRC-23)]

**Studies on possible removal of the limitation regarding aeronautical mobile in the frequency range [3 400-3 600 MHz] and [3 600-3 700MHz] for the use of International Mobile Telecommunications user equipment by non-safety applications**

The World Radiocommunication Conference (Dubai, 2023),

considering

*a)* that there is a need for greater connectivity of aeronautical vehicles to address existing demand and future requirements from the aeronautical community;

*b)* that current and future International Mobile Telecommunications (IMT) networks can provide connectivity services to helicopters, small aircraft and unmanned aircraft systems (UAS);

*c)* that current and future IMT networks may provide communication functions for the beyond visual line-of-sight operation of UAS;

*d)* that future IMT networks may support direct air-ground connectivity services to commercial airplanes with specific equipment on board airplanes;

*e)* that the IMT capacities identified in the *considering* paragraphs above have been demonstrated to be feasible by several studies and are currently being developed by standards development organizations,

noting

*a)* that ITU Radiocommunication Sector sharing and compatibility studies supporting the identification of specific frequency bands for IMT did not consider the use cases described in *considering b)* to *e)*;

*b)* that Resolution **224 (Rev.WRC‑19)** addresses frequency bands for the terrestrial component of IMT below 1 GHz;

*d)* that the 3 400-3 600 MHz and 3 600-3 700 MHz frequency band is allocated on a primary basis to the mobile except aeronautical mobile service;

recognizing

that the removal of the limitation regarding aeronautical mobile in the proposed frequency bands would enable the unified use of the IMT identifications by aeronautical user equipment throughout the Regions,

resolves to invite the ITU-R

1 to assess relevant aeronautical mobile service scenarios for air-ground and ground-air connectivity for airborne user equipment in IMT networks to be addressed in compatibility and sharing studies;

2 to identify relevant technical parameters associated with the aeronautical mobile systems;

3 to conduct sharing and compatibility studies with existing services, including in adjacent frequency bands;

4 to determine the possibility of removing the aeronautical mobile service exception or other suitable regulatory measures in the frequency ranges [3 400-3 600 MHz in Region 3] [and 3 600-3 700MHz in Region 3], based on the results of the above ITU-R studies,

invites the WRC-31

to consider the results of the above ITU-R studies and take appropriate actions regarding the possibility of removal the aeronautical mobile service exception or other suitable regulatory measures in the frequency ranges [3 400-3 600 MHz] [and 3 600- 3 700MHz] [in Region 3], while ensuring the full protection of services to which these frequency bands are allocated as well as services in the adjacent bands.

**Reasons:** Proposal for a preliminary agenda item of WRC-31 agenda item to consider on the removal of the limitation regarding aeronautical mobile within the frequency range [3 400- 3 600MHz] and [3 600-3 700 MHz] for the use of International Mobile Telecommunications user equipment by non-safety applications.

|  |  |
| --- | --- |
| **Subject: Proposal for WRC-31 agenda item Proposal** | |
| **Origin: APT** | |
| ***Proposal*:**  the use of existing International Mobile Telecommunications (IMT) identifications within the frequency ranges [3 400-3 600MHz] and [3 600-3700 MHz], with a view of the possible removal of the limitation regarding aeronautical mobile for the use of IMT user equipment by non-safety applications, where appropriate, in accordance with Resolution **251 (Rev.WRC-23)**; | |
| ***Background/reason*:**  There is a growing demand for affordable air to ground and ground to air connectivity, due the rising expectation for connectivity in airplanes. Several test campaigns have demonstrated that IMT networks can respond to this type of connectivity demand. Standards Developing Organizations (SDOs) such as 3GPP, CCSA are currently standardizing functionalities to support these use cases. | |
| ***Radiocommunication services concerned*:**  Mobile service, fixed satellite service (space-to-Earth), broadcasting service | |
| ***Indication of possible difficulties*:**  Sharing studies with radiocommunication services in band and in adjacent bands | |
| ***Previous/ongoing studies on the issue*:**  Resolution  [251 (Rev.WRC‑23)]/[ [Aerial IMT (WRC-23)] | |
| ***Studies to be carried out by*:**  ITU-R Study Group 5 (Working Party 5D) | ***with the participation of*:**  *TBD* |
| ***ITU‑R study groups concerned*:**  SG 4, SG 5 | |
| ***ITU resource implications, including financial implications (refer to CV126)*:**  *No direct financial implications have been identified to date.* | |
| ***Common regional proposal*:** TBD | ***Multicountry proposal*:** TBD  ***Number of countries*:** TBD |
| ***Remarks*** | |