



ICAO

International Civil Aviation Organization

**Twenty Ninth Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/29)
of APANPIRG**

Bangkok, Thailand, 16-20 June 2025

Agenda Item 6: Aeronautical Mobile Communications Service and Aeronautical Electromagnetic Spectrum Utilization

6.1 Outcomes of WRC-27 Workshop

OUTCOMES OF PREPARATORY WORKSHOP ON ITU WORLD RADIOCOMMUNICATION CONFERENCE 2027 (WRC-27 WORKSHOP)

(Presented by the Secretariat)

SUMMARY

The paper presents the key outcomes of the Workshop on ITU World Radiocommunication Conference 2027 (WRC-27 Workshop) was held in the ICAO Asia and Pacific Regional Office, Bangkok, Thailand from 24 to 25 February 2025.

1. INTRODUCTION

1.1 The Workshop on ITU World Radiocommunication Conference 2027 (WRC-27 Workshop) was held in the ICAO Asia and Pacific Regional Office, Bangkok, Thailand, from 24 to 25 February 2025. The Workshop was organized in conjunction with the Twentieth Working Group Meeting of the Frequency Spectrum Management Panel (FSMP-WG/20), which was held from 27 February to 7 March 2025. The objective of the Workshop was to provide the background and information to States/Administrations in preparing their delegations for the WRC-27 and address other spectrum issues of vital importance to the international aviation community.

1.2 The Workshop was attended by **49** participants from **14** Member States/Administrations, **4** International Organizations and **2** telecommunication providers, namely Brazil, Cambodia, Canada, China, Hong Kong China, Fiji, France, Japan, Malaysia, Philippines, Sri Lanka, Singapore, Thailand, United Kingdom, ICCAIA, IATA, ITU, ICAO, ASRI and HWG. The report and other documents of the Workshop can be accessed at the ICAO APAC Meeting webpage:

<https://www.icao.int/APAC/Meetings/Pages/2025-WRC27WS-FSMP-WG20.aspx>

1.3 This paper summarizes the discussion of the WRC-27 Workshop for Meeting information.

2. DISCUSSION

2.1 Mr. Andrew Roy, Chairperson of the Frequency Spectrum Management Panel, gave a welcome address to all participants and expressed appreciation to the APAC ICAO office for hosting the Workshop. He highlighted the objective of the Workshop and the importance of securing the availability of an adequate frequency spectrum free from harmful interference. He also expressed appreciation to the

administrations and international organizations for their active support in promoting and supporting the ICAO WRC-27 position at the ITU.

2.2 Ms. Mie Utsunomiya, Technical Officer (TO) CNS, ICAO Headquarters, and Dr. Soniya Nibhani, Regional Officer ANS (CNS) Implementation of the ICAO APAC Office acted as Secretaries, assisted by Ms. Xu Jian, Associate Programme Officer (CNS) Implementation and Ms. Varapan Meefuengsart, the Programme Assistant from ICAO Asia and Pacific Regional Office.

Agenda of the Workshop

2.3 The draft Agenda items of the Workshop attached to the letter of invitation were adopted by the Workshop without change.

- 1) Introduction
- 2) WRC-27: Agenda items of major concerns for the aviation community and action plans to be implemented at the national and regional levels
- 3) Regional preparations for WRC-27
- 4) Radio Altimeter and 5G issues
- 5) Issue of GNSS Interference
- 6) The reality of frequency management in APAC: current practices and new challenges
- 7) Any other business

Agenda Item 1: Introduction

2.4 Under this agenda, the following topics were reviewed and discussed.

Presentation Title	Presenter
ITU/WRC process, results of WRC-23 and Preparation for future WRCs	Secretariat
An overview of all aviation-relevant agenda items to be addressed by WRC-27	Mr. Andrew Roy, ASRI FSMP chairperson,
ITU Preparatory process towards WRC-27	Mr. Nikolai Vassiliev, ITU

Agenda Item 2: WRC-27: Aviation-related topics and action plans to be implemented at the national and regional levels

2.5 The Workshop received a number of presentations as follows, on the critical WRC-27 agenda items relevant to aviation.

Presentation Title	Presenter
WRC-27 Agenda Item 1.5 – limiting non-GSO	Mr. Christian Fleury, France
WRC-27 Agenda Item 1.7 – IMT/Radio altimeter Radio Altimeter and 5G issues New altimeter design and SARPS progress WRC-27 Agenda Item 1.19 – Sea surface in RA band	Mr. Andrew Roy, ASRI
WRC-27 Agenda Item 1.9 – AM(OR)S	Mr. Christian Fleury, France
WRC-27 Agenda Item 1.11 – Space-to-Space links	Mr. Damon Ladson, USA
WRC-27 Agenda Item 1.12 – MSS	Mr. Damon Ladson, USA
WRC-27 Agenda Item 1.13 – Space based IMT	Mr. Abed Ferr, Canada
WRC-27 Agenda Item 1.15 – Lunar communications	Mr. Guillaume Novella, France
WRC-27 Agenda Item 1.16 – Radio Quiet Zones	Mr. Christian Fleury, France
WRC-27 Agenda Item 1.17 – Space Weather Sensors	Mr. Guillaume Novella, France
WRC-27 Agenda Item 1.18 – Unwanted emission above 76 GHz	Mr. Katsuyuki Arakawa, Japan
WRC-27 Agenda Item 9.1 – UAS C2 Link	Mr. Guillaume Novella, France
WRC-27 Agenda Item 9.2 – GMDSS	Mr. Damon Ladson, USA

WRC-27 Agenda Item 10 – Future Agenda Items and WRC Planning	Mr. Guillaume Novella, France
GNSS interference + WRC-27 Agenda Item 4 (Res 676 (WRC-23))	Mr. Laurent Azoulai, ICCAIA

2.6 Noting strong concerns from different participants on the progress of WRC-27 Agenda item 1.7 and its relevant ITU-R studies, the States/Administrations were urged to follow ICAO Assembly Resolution A41-7 to strongly support both the ICAO frequency spectrum strategy and position at WRCs. Specifically, the States/Administrations were encouraged to communicate with radio regulatory authorities to ensure, to the maximum extent possible, that the ICAO position was accounted for in the development of national positions. It has also been highly recommended that delegations to regional conferences, ITU study groups and WRCs include experts from their civil aviation authorities and other civil aviation stakeholders who are fully prepared to represent aviation interests.

2.7 Furthermore, it was informed that a separate State Letter ([SL.25 003 Radio Altimeter WRC-27 AI 1.7e State Letter](#)) was recently published, inviting a Webinar to be held on 20 March 2025. The States/Administrations were invited to participate in the Webinar to understand the complications of agenda item 1.7, challenges and a way forward.

Agenda Item 3: Regional preparations for WRC-27

2.8 Under this agenda, the following topics were reviewed and discussed.

Presentation Title	Presenter
Regional preparations for WRC-27 - APT	Mr. Chainan Chaisompong, Thailand
Regional preparations for WRC-27 - CEPT	Mr. Christian Fleury, France
Regional preparations for WRC-27 - CITELE	Mr. Vahe Antoine Yaghdjian, Brazil

Agenda Item 4: Radio Altimeter and 5G issues

2.9 Concerns were raised about the potential interference from 5G to radio altimeter. Due to the strong relationship between WRC-27 Agenda item 1.7 and existing radio altimeter issues, this subject was included in the presentation WRC-27 Agenda item 1.7 referred in 5.3.1 ([WRC-27 Agenda Item 1.7 – IMT/Radio altimeter Radio Altimeter and 5G issues New altimeter design and SARPS progress WRC-27 Agenda Item 1.19 – Sea surface in RA band](#)).

Agenda Item 5: Issue of GNSS Interference

2.10 Through the presentation ([GNSS interference + WRC-27 Agenda Item 4 \(Res 676 \(WRC-23\)\)](#)), the Workshop was informed of the increasing number of incidents of observed GNSS interference globally and the implications for air navigation safety and security. Serious concerns regarding the impact of GNSS interference on the safety and security of air navigation systems were expressed by the participants of the Workshop and States/Administrations were encouraged to monitor the issues and take into account a comprehensive and well-coordinated approach to address this pressing issue.

Agenda Item 6: The reality of frequency management in APAC: current practices and new challenges

2.11 Under this agenda item, the following topics were reviewed and discussed.

Presentation Title	Presenter
Frequency management in APAC: current practices and new challenges	APAC RO, Secretariat
Relevant ICAO provisions	Secretariat

Agenda Item 7: Any other business

2.12 Noting along with the progress of the studies, there might be some updates to the ICAO position, participants requested that it is better for the aviation community to organize an additional remote workshop/webinar in 2027 to understand such updates. The Workshop ended with thanks to all participants from Member States/Administrations/Organizations for their contributions and active participation in the Workshop and preparation of WRC-27.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the outcome of the Workshop on ITU World Radiocommunication Conference 2027 (WRC-27 Workshop);
- b) support ICAO positions and take any necessary follow-up actions; and
- c) discuss any relevant matter as appropriate
