



International
Civil Aviation
Organization

Organisation
de l'aviation civile
internationale

Organización
de Aviación Civil
Internacional

Международная
организация
гражданской
авиации

منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref.: T 8/8.9 – AP 130/24 (CNS)

8 November 2024

Subject: Invitation to Workshops and Meetings on Radiocommunication in ICAO Asia and Pacific Regional Office

- a) Workshop on ITU World Radiocommunication Conference 2027 (WRC-27 Workshop)
(Bangkok, Thailand, 24-25 February 2025)
- b) Twentieth Working Group Meeting of the Frequency Spectrum Management Panel (FSMP-WG/20)
(Bangkok, Thailand, 26 February -7 March 2025)

Actions Required:

- 1) To provide nomination letter/email by **31 January 2025**;
- 2) To complete the online registration by **7 February 2025**.

Dear Sir/Madam,

I am pleased to invite your State/Administration to participate in the following events to be held at the ICAO APAC Regional Office, Bangkok, Thailand. The two events are organised successively for the convenience of those participants who intend to attend both events:

- (a) Workshop on ITU World Radiocommunication Conference 2027 (**WRC-27 Workshop**)- **24 February to 25 February 2025**
and/or
- (b) Twentieth Working Group Meeting of the Frequency Spectrum Management Panel (**FSMP-WG/20**)- **26 February to 7 March 2025**

Recognising that the effort on aeronautical spectrum utilisation and protection shall only be enabled by the active participation and implementation of States, Assembly Resolution A41-7 urges States/Administrations to firmly support the ICAO frequency spectrum strategy and ICAO position at WRCs, which also calls for active participation of the experts in relevant ICAO and ITU meetings. As described in the draft ICAO position for WRC-27 (E 3/5-24/93), which is provided in **Attachment A1 (to be published soon on the meeting webpage)**, it is already evident that there will be a large number of ITU- R

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studies during the WRC-27 study cycle (from 2024-2027) that will have enormous implications for aviation. Some of the WRC-27 agenda items are of major concern for the aviation community, and as a consequence, they could negatively degrade the level of safety. Those main items of concern include Agenda item 1.7 and Agenda item 1.19, which are related to radio altimeter and WAIC.

To ensure early awareness and involvement of States in the preparation of the WRC-27, this Workshop will provide the first opportunity for States in the APAC region to understand upcoming WRC agenda items. In addition to relevant WRC-27 Agenda Items, the Workshop will address other current spectrum issues of vital importance to the aviation community, such as 5G and GNSS interferences. The detailed programme and presentations for the WRC-27 Workshop will be provided at the meeting website <https://www.icao.int/APAC/Meetings/Pages/2025-WRC27WS-FSMP-WG20.aspx>. The provisional agenda of the Workshop is provided in the **Attachment A2**.

To support the WRC-27 Workshop more effectively, the ICAO Headquarters will host the FSMP-WG/20 in the ICAO APAC Regional Office in Bangkok, Thailand. The provisional agenda of FSMP WG/20 is provided in **Attachment A3**. Other documents of FSMP WG/20 will be provided at the FSMP website <https://www.icao.int/safety/FSMP/>. Any States/Administrations who are interested in the spectrum matter, will be welcomed to participate in the FSMP WG/20 in addition to the Workshop.

Delegates are advised that the ICAO Regional Office is moving towards a ‘paperless’ meeting environment by promoting electronic media for all meeting materials. The delegates are encouraged to take advantage of the wireless network facility and should bring a portable device equipped with Wi-Fi networking capability for the Meeting. The Working and Information Papers, presentations, and other related documents for the Workshop will be available on the meeting webpage at <https://www.icao.int/APAC/Meetings/Pages/2025-WRC27WS-FSMP-WG20.aspx> and for FSMP-WG/20 at <https://www.icao.int/safety/FSMP/>. All delegates should obtain meeting materials from the meeting web page before the commencement of the Meeting.

A formal letter or email of Nomination from a Member State/Administration is required to attend the WRC/27 Workshop. I would be grateful if you would take advantage of the successive events and nominate participant(s) to attend and contribute to the Workshop **by sending a nomination letter or email** to apac@icao.int with copies to snibhani@icao.int and vmeefuengsart@icao.int at the earliest convenience, but no later than **31 January 2025**. The letter should be on official letterhead and signed by the appropriate authority or authorised signatory for the government entity of the State/Administration. The letter/email should be addressed to the ICAO Regional Director in response to *API30/24 (CNS) - Invitation to Workshops and Meetings on Radiocommunication in ICAO Asia and Pacific Regional Office Group (Bangkok, Thailand, 26 February – 07 March 2025)*. Please note that this step is also mandatory for attending the FSMP WG/20 Meeting only if members other than FSMP advisors wish to join the FSMP/20 Meeting. No formal letter or email of Nomination is required for FSMP Advisors.

States/Administrations are encouraged to urge experts involved in aeronautical spectrum management and planning, as well as the designated contact persons in civil aviation responsible for preparing World Radio Conference (WRC) positions of States, to participate in the Workshop and the meetings. The Workshop/Meeting bulletin containing detailed information about the Meeting venue, recommended hotels, and other information of interest, along with administrative arrangements, is provided in **Attachment B**. All costs to attend the Meeting in Bangkok, Thailand, including travel, accommodation, health insurance, and other miscellaneous expenses, will be borne by the respective States/Administrations.

All nominated participants must complete the online registration using the registration link at <https://www.icao.int/APAC/Meetings/Pages/2025-WRC27WS-FSMP-WG20.aspx> at your earliest convenience, but no later than **7 February 2025**, as after this, the link will be closed automatically to accept registrations.

Accept Sir/Madam, the assurances of my highest consideration.

Yours sincerely,



Tao Ma
Regional Director

Enclosures:

- Attachment A1 – Draft ICAO position for WRC-27
(E 3/5-24/93)
- Attachment A2 - Provisional Agenda of WRC-27
Workshop
- Attachment A3 - Provisional Agenda of FSMP WG/20
- Attachment B - Meeting bulletin

Attachment A2 to State Letter AP130/24 (CNS)



International Civil Aviation Organization

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

Bangkok, Thailand, 24-25 February 2025

PROVISIONAL AGENDA

1. Introduction

- ITU/WRC process, results of WRC-23

2. WRC-27: Agenda items of major concerns for the aviation community and action plans to be implemented at the national and regional levels

- An overview of agenda items to be addressed by WRC-27 that may have implications for aviation spectrum usage
 - WRC-27 AI 1.7 – Potential impact to the safety critical systems such as radio altimeter and WAIC from the International Mobile Telecommunications (IMT) identification of the frequency bands in 4 400-4 800 MHz, 7 125 -8 400 MHz, and 14.8-15.35 GHz
 - WRC-27 AI 1.13 –Possible new allocations to the mobile-satellite service for direct connectivity between space stations and IMT, which might influence to several safety critical systems
 - WRC-27 AI 1.19 –Possible primary allocations in all regions of Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, which might influence to several safety critical systems including radio altimeter and WAIC
 - WRC-27 AI 9.1 – On the activities of the ITU Radiocommunication Sector since WRC-23 which is related to C2 Link
- Other WRC-27 Agenda Items which may also have implications for aviation spectrum usage (1.5, 1.9, 1.11, 1.12, 1.15, 1.16, 1.17, 1.18, 4, 8, 9.2 and 10)

3. Regional preparations for WRC-27

- Asia-Pacific Telecommunity (APT) Conference Preparatory Group (APT-APG)
- Update from other Regional WRC preparatory groups, incl:
 - ASMG, ATU, CEPT, CITEL, RCC

4. Radio Altimeter and 5G issues

- Activity in ICAO expert groups
- New altimeter design and SARPS progress

Attachment A2 to State Letter AP130/24 (CNS)

5. Issue of GNSS Interference

- Activity in ICAO expert groups
- Relevant ITU resolution

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

- Aeronautical frequency management in the APAC Region
- ICAO provisions: Handbook on Radio Frequency Spectrum Requirements for Civil Aviation (Doc 9718), Volumes I, and II

7. Any other business

Attachment A3 to State Letter AP130/24 (CNS)



International Civil Aviation Organization

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
TWENTIETH WORKING GROUP MEETING OF
THE FREQUENCY SPECTRUM MANAGEMENT
PANEL (FSMP-WG/20)**

(Bangkok, Thailand, 26 February -7 March 2025)

PROVISIONAL AGENDA

- Agenda Item 1 Opening and Working Arrangements
- a) Agenda review and document attribution
 - b) Status of tasks identified on Job Cards
 - c) FSMP timeline for activities
 - d) Reports from related spectrum meetings
- Agenda Item 2 Secretariat updates on ICAO position for WRC-27 – FSMP.002.02
- Agenda Item 3 Development of Material for ITU-R Studies – FSMP.003.02
- a) Material for WRC-27 agenda items
 - b) Non-WRC material for the ITU
 - c) ITU engagement
- Agenda Item 4 Radio Altimeters – FSMP.006.02
- a) Report from correspondence group on radio altimeters (CG-RA)
 - b) Development of Radio Altimeter SARPs material for Annex 10, Vol. V
 - c) Radio Altimeter technical material and mitigation measures
 - d) National efforts to implement broadband mobile near 4200-4400 MHz
- Agenda Item 5 Aeronautical Band Planning – FSMP.005.03
- a) 108 – 137 MHz
 - b) 960 – 1215 MHz
 - c) 5000 – 5150 MHz
- Agenda Item 6 Interference from Non-Aeronautical Sources – FSMP.004.03
- Agenda Item 7 ICAO Frequency Spectrum Handbook (Doc 9718) – FSMP.001.02 & FSMP.005.03
- a) Update of Doc 9718 Volume I
 - b) Update of Doc 9718 Volume II
 - c) Long-term restructuring of Doc 9718
- Agenda Item 8 Any Other Business
- Agenda Item 9 Meeting close
- a) Meeting report
 - b) Action item review
 - c) Future meetings timetable



ICAO

International Civil Aviation Organization

Workshop on ITU World Radiocommunication Conference 2027 (WRC-27 Workshop) and the Twentieth Working Group Meeting of the Frequency Spectrum Management Panel (FSMP-WG/20)

Bangkok, Thailand, 24 February – 7 March 2025

WORKSHOP AND MEETING BULLETIN

1. Schedule and venue of the Workshop and Meeting

1.1. The Workshop on ITU World Radiocommunication Conference 2027 (WRC-27 Workshop) will commence at 09:00 hrs. on Monday, **24 February 2025** and conclude at 17:00 hrs. ICT (UTC +7) on Tuesday, **25 February 2025**.

1.2. The Meeting (FSMP-WG/20) will commence on Wednesday, **26 February 2025** at 09:00 hrs. and conclude at 17:00 hrs. ICT (UTC +7) on Friday, **7 March 2025**.

1.3. Additional Workshop and Meeting program details will be published on the Meeting webpage before the Meeting.

1.4. The Workshop and Meeting venue is:

ICAO Asia and Pacific Office (Kotaite Wing)
252/1 Vibhavadi Rangsit Road
Chatuchak, Bangkok 10900
Tel: +66 (2) 537 8189
Fax: +66 (2) 537 8199
E-mail: apac@icao.int

2. Officers and Secretariat facilitating the Workshop and Meeting

2.1. Ms Mie Utsunomiya,
Technical Officer, ICAO HQ
E-mail: mutsunomiya@icao.int

2.2. Ms. Soniya Nibhani
ICAO Regional Officer, Air Navigation Systems (CNS) Implementation
E-mail: snibhani@icao.int

2.3. Ms. Varapan Meefuengsart
Programme Assistant
E-mail: vmeeфуengsart@icao.int

3. Registration of participants

3.1. Participants must complete the online registration via the link on the Meeting webpage (<https://www.icao.int/APAC/Meetings/Pages/2025-WRC27WS-FSMP-WG20.aspx>) **by 7 February 2025**.

3.2. A formal letter or email of Nomination from a Member State/Administration is required to attend the Workshop. A nomination letter or email should be sent to apac@icao.int with copies to snibhani@icao.int and vmeeffuengsart@icao.int at the earliest convenience, but no later than **31 January 2025**. The letter should be on official letterhead and signed by the appropriate authority or authorised signatory for the government entity of the State/Administration. The letter/email should be addressed to the ICAO Regional Director in response to *AP0130/24 (CNS) - Invitation to Workshops and Meetings on Radiocommunication in ICAO Asia and Pacific Regional Office Group (Bangkok, Thailand, 26 February – 07 March 2025)*. Please note that this step is also mandatory for attending the FSMP WG/20 Meeting only if members other than FSMP advisors wish to join the FSMP/20 Meeting. No formal letter or email of Nomination is required for FSMP Advisors.

3.3. Onsite registration is also required by all in-person participants at the Registration Desk in the reception area of Kotaite Wing between 08:00 – 09:00 hours on the opening day of the Workshop and Meeting. ICAO will provide an official Meeting identification badge which participants must wear inside the ICAO premises.

3.4. On arrival at the ICAO premises, ICAO requires participants to present a valid, government-issued identity card or passport for verification. ICAO also requires participants to follow the visitor security screening procedure and comply with all security instructions inside the ICAO premises.

4. Workshop and Meeting material and webpage

4.1. ICAO will make the Workshop material available in electronic format on the Meeting webpage <https://www.icao.int/APAC/Meetings/Pages/2025-WRC27WS-FSMP-WG20.aspx>.

4.2. Documents of FSMP WG/20 will be provided at the FSMP website at <https://www.icao.int/safety/FSMP/>.

4.3. Participants should visit the Meeting webpage to review and download all Working and Information Papers before the Meeting.

4.4. Wi-Fi connection to the Internet is available on the ICAO premises to enable participants to access the Meeting material online. Wi-Fi access details are as follows:

SSID: **icaoapac**
(Note: password not required)

5. Visa, Insurance and Customs

5.1. Participants from other countries must possess the documentation required to enter and stay in Bangkok, Thailand. The Ministry of Foreign Affairs, Thailand, provides information on entry requirements for Bangkok, Thailand (<https://www.mfa.go.th/en/index>).

5.2. Application for an entry visa is the responsibility of the State or delegate concerned, and participants should do this well in advance as visa processing for certain countries might require additional time for security screening. Therefore, participants requiring a visa support letter should provide a request from the appropriate authority, administration or State, on official letterhead, to the ICAO APAC Office **at least six weeks before the start of the Meeting**.

5.3. Participants should be medically fit to attend the Meeting and **possess insurance coverage to meet expenses for any unexpected event**, including illness or medical emergency during the Meeting. ICAO will not take responsibility for any expenses incurred concerning participation in

its events. Participants should obtain information on vaccination requirements from their local Thailand embassy or the Thailand immigration authorities.

5.4. Currently, there are no restrictions on the import of foreign currency to Thailand. However, visitors entering Thailand must declare amounts exceeding US\$20,000. Visitors may take out of Thailand foreign currencies up to the amount imported and declared. Participants should obtain further information from their local Thailand embassy or the Thailand Customs authorities.

6. Hotel Reservations, Transportation and Parking

6.1. Participants are responsible for their accommodation arrangements. For convenience, the ICAO APAC Office website provides a [list of hotels](#) within easy reach of the ICAO Office with UN special rates. Please note, however, that ICAO does not take responsibility for any incident arising from a participant's stay at any of the listed hotels. Most hotels add a 10% service charge to the room rate in addition to the government tax of 7%. Baggage porters at hotels usually expect at least 20 Baht as a tip. Many restaurants expect a tip of about 10% unless they already add a service charge to your bill.

6.2. Participants are responsible for transportation arrangements between the airport, their accommodation and the Meeting venue. When departing Bangkok, your hotel can usually arrange for transportation to the airport for a fee.

6.3. Public taxis, which are less expensive than hotel transportation, are widely available. Most taxis use a fare meter, starting at 35 Baht for the first 2 kilometres, then increasing by 2 Baht per kilometre (approx.) with a small surcharge applicable in traffic jams. The airport surcharge is 50 Baht. [Grab](#) and [Bolt](#) are widely used mobile Apps for public taxi and ride-sharing services in Bangkok.

6.4. The nearest Skytrain (BTS) stations to the ICAO APAC Office are **Ha Yaek Lat Phrao** and **Mo Chit**. The nearest Metro (MRT) station is **Phahon Yothin**.

6.5. Limited parking space is available at the ICAO APAC Office only for Diplomatic, United Nations and Government vehicles with official registration. Participants must provide their vehicle information to the ICAO APAC Office at least three working days before access if they wish to use the parking facilities. Parking at the ICAO facility is at the driver's own risk. ICAO will not be responsible for any incident concerning parking a vehicle at the ICAO facilities.

6.6. ICAO does not permit private vehicles and taxis to park inside its facility. However, paid parking is available at the Central Plaza Ladprao Shopping Mall across the Vibhavadi Rangsit Road. Limited street parking is also available near the ICAO APAC Office.

7. Food and Catering Arrangements

7.1. The ICAO APAC Office will provide participants with coffee/tea during the scheduled coffee/tea breaks and drinking water dispensers in the common areas.

7.2. However, unless advised otherwise, the ICAO APAC Office will not provide lunch. Therefore, during the scheduled lunch breaks, the Meeting participants are responsible for their lunch arrangements. They may bring their lunch (to eat in the common areas) or purchase meals from restaurants and cafeterias near the Office, as indicated on the map below.

7.3. Participants should note that the Meeting will resume promptly at the scheduled time following the lunch break (approx. one hour).

8. Further Information

8.1. ICAO prohibits smoking inside the ICAO buildings. However, participants who wish to smoke may do so in the designated outdoor smoking areas.

8.2. Participants may obtain information about local weather conditions from the Thai Meteorological Department (www.tmd.go.th). Tropical or lightweight and washable cotton clothing will suffice in Bangkok, whereas woollens are unnecessary.

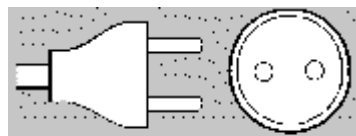
8.3. The dress code for the Meeting is formal. Therefore, casual clothing is not suitable for the Meeting.

8.4. Bangkok time (Indo-China Time or ICT) is seven hours ahead of Coordinated Universal Time (UTC+7).

8.5. Major hotels and department stores usually accept International credit cards such as American Express, Diners Club, Visa, Master Card, etc.

8.6. All commercial banks exchange major foreign currencies and are open from 0830 to 1530 hours from Monday through Friday, and some keep the foreign exchange counter open until 2000 hours during weekdays. In addition, foreign exchange counters operated by various commercial banks are located in several Bangkok places. They are open on Saturdays, Sundays, and public holidays from 1000 to 2000 hours. To change travellers' cheques, you are required to show your passport.

8.7. The type of electrical plug and socket typically used in Thailand is two parallel prongs:



Plug Type C



8.8. Additional House-Keeping information is available through the 'About APAC' link on the ICAO APAC Office [website](#).

8.9. If you require further information, please get in touch with the Secretariat at apac@icao.int.

Map



**CENTARA
GRAND**
AT CENTRAL PLAZA
LADPRAO BANGKOK

