



ICAO

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



# ICAO WRC-27 Preparatory Workshop

## Relevant ICAO Provisions

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International Civil Aviation Organization (ICAO)

# Presentation Overview

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- 1** ICAO Frequency Spectrum **Strategy & Policy**
- 2** ICAO **Position** for WRC & Relevant State Letters
- 3** **Assembly Resolution A42-7**

# Management and Defence of Aviation Frequency Spectrum

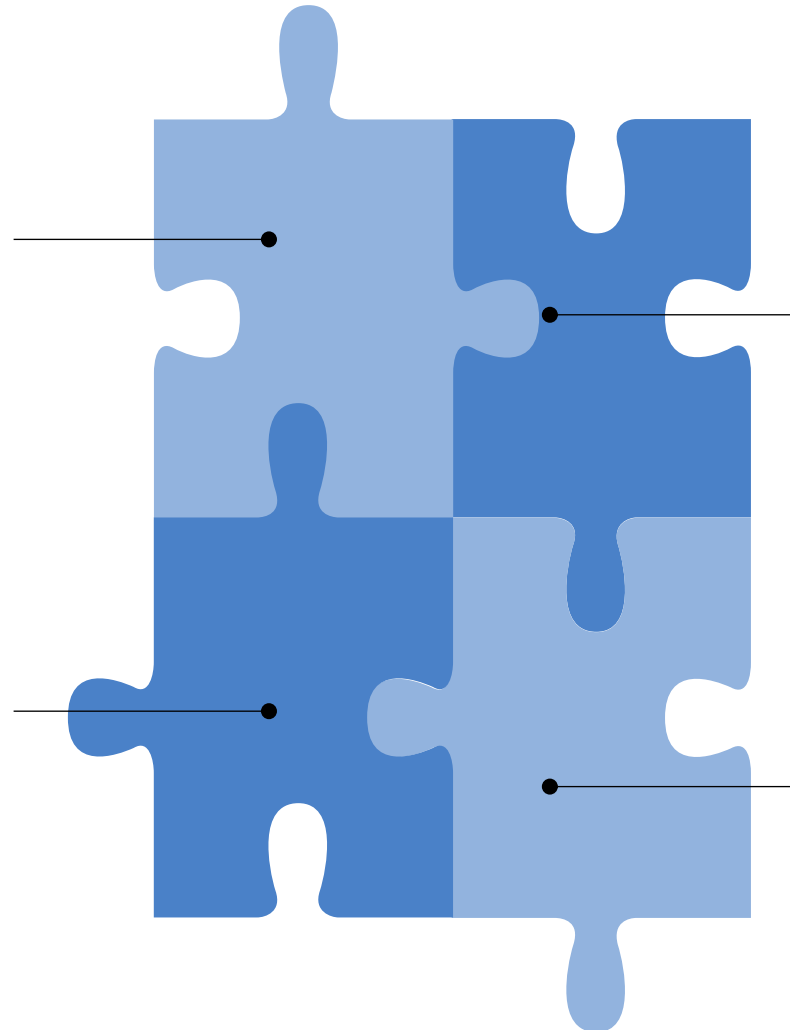
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## ICAO Frequency Spectrum Strategy

High level vision on existing and future spectrum requirements in support of the evolving CNS systems and infrastructure requirements

## ICAO Frequency Policy Statements

Statements of official policy on each and every frequency band used by aeronautical systems for the provision of CNS



## ICAO Position for WRC

ICAO Position on the specific agenda items of the upcoming ITU WRC to ensure that aeronautical requirements and safety concerns are met

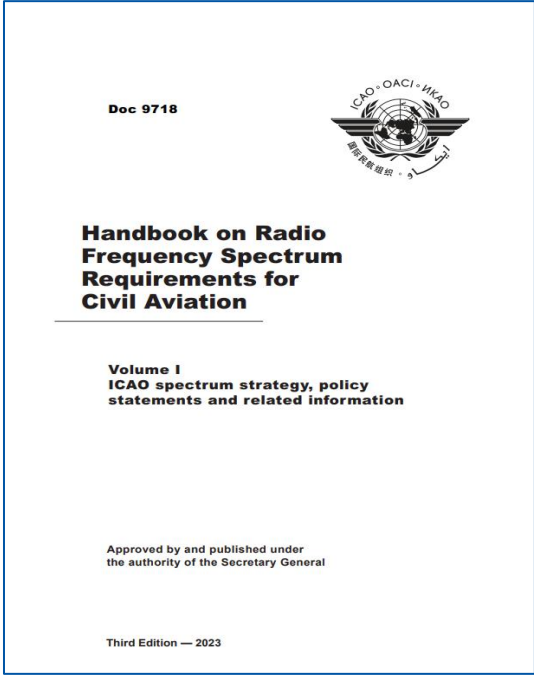
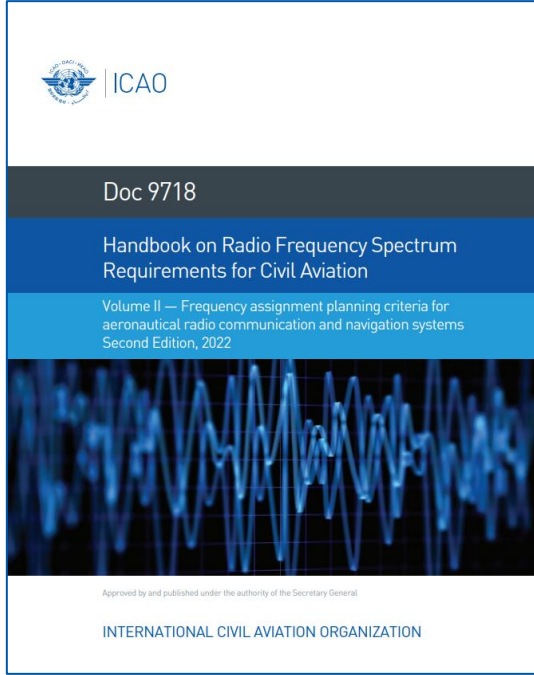
## Strategy for establishing and promoting the ICAO WRC Position

(including **Assembly Resolution A42-7**)

2

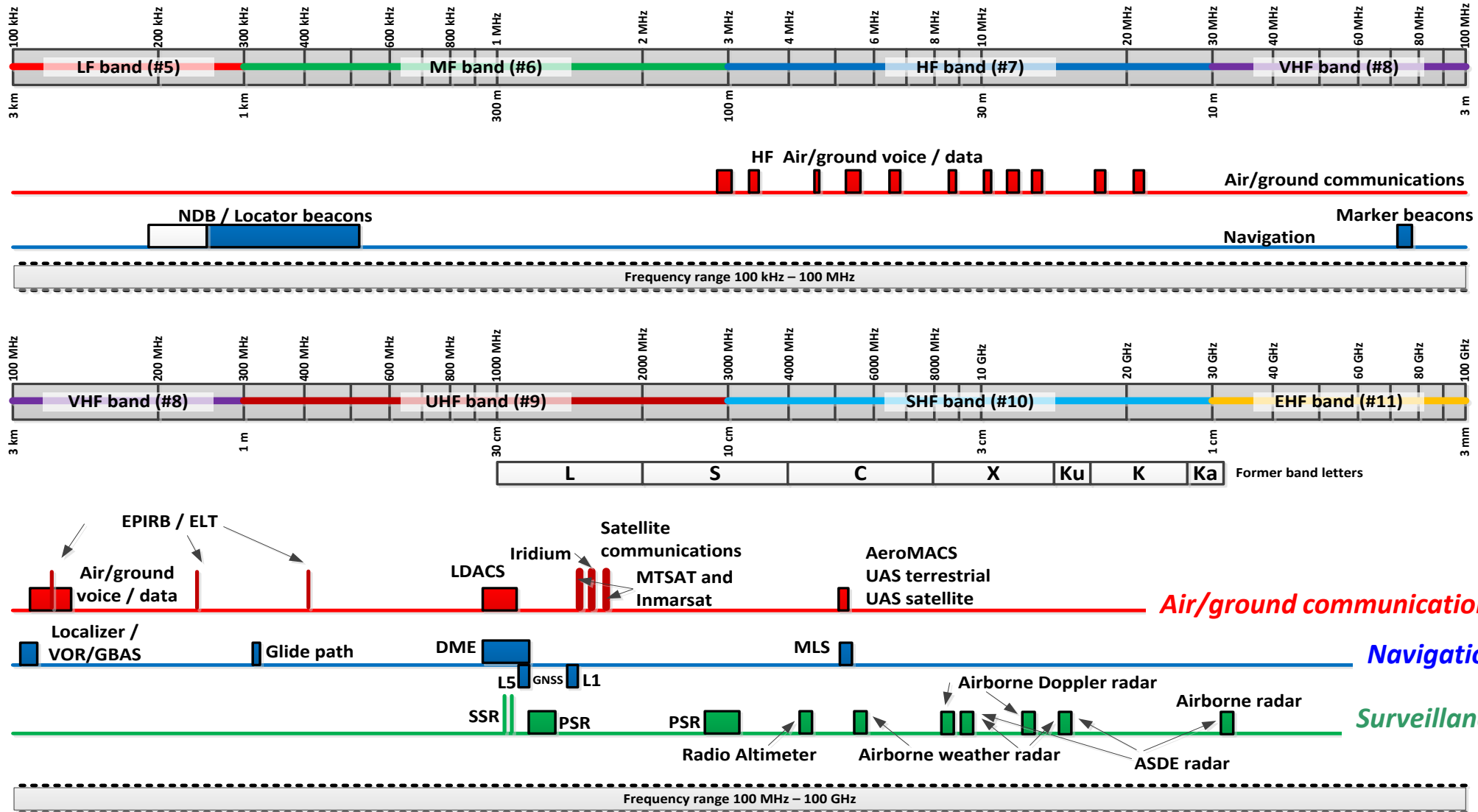
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# ICAO Doc 9718 Handbook on Radio Frequency Spectrum Requirements for Civil Aviation

Vol. I - ICAO Spectrum Strategy and Policy	Vol. II - Frequency Assignment Planning
 <p>Doc 9718</p> <p><b>Handbook on Radio Frequency Spectrum Requirements for Civil Aviation</b></p> <p>Volume I ICAO spectrum strategy, policy statements and related information</p> <p>Approved by and published under the authority of the Secretary General</p> <p>Third Edition — 2023</p> <p>3<sup>rd</sup> edition (2023)</p>	 <p>ICAO</p> <p>Doc 9718</p> <p>Handbook on Radio Frequency Spectrum Requirements for Civil Aviation</p> <p>Volume II — Frequency assignment planning criteria for aeronautical radio communication and navigation systems Second Edition, 2022</p> <p>Approved by and published under the authority of the Secretary General</p> <p>INTERNATIONAL CIVIL AVIATION ORGANIZATION</p> <p>2<sup>nd</sup> edition (2022)</p>
<p><a href="#">Handbook on Radio Frequency Spectrum Requirements for Civil Aviation - Volume I — ICAO spectrum strategy, policy statements and related information (Doc 9718-1)   ICAO Store</a></p>	<p><a href="#">Handbook on Radio Frequency Spectrum Requirements for Civil Aviation - Volume II — Frequency assignment planning criteria for aeronautical radio communication and navigation systems (Doc 9718-2)   ICAO Store</a></p>

Doc 9718 and other relevant draft material can be downloaded from the FSMP website (Documents section) at <https://www.icao.int/FSMP/documents>

# Over 1 GHz of frequency spectrum in global allocations to aeronautical safety services



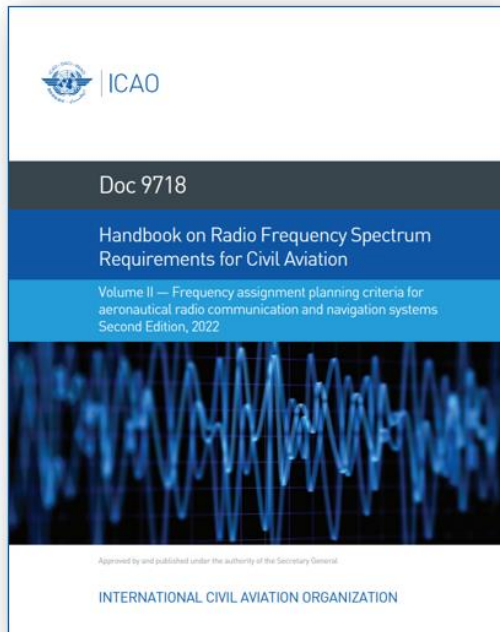
Notes:  
 Drawing not to scale  
 Not all Regional or sub-Regional allocations are shown  
 Band identification (e.g. VHF) and band # per Radio Regulations  
 The satellite communication bands used by MTSAT and Inmarsat are not allocated the the Aeronautical Mobile Satellite (R) Service



# Doc 9718 Volume II

## Frequency assignment planning

### Vol. II - Frequency Planning

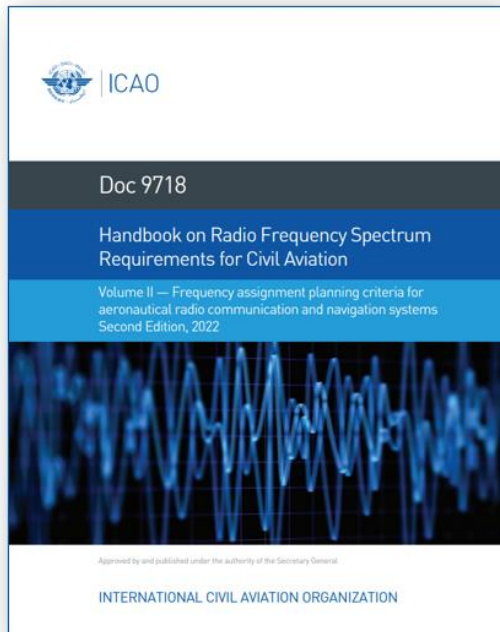


Published for the first time in 2013,

Updated in 2017 and 2022

Provides globally harmonized frequency assignment planning criteria and guidance material to support the application of SARPs in Annex 10, Vol. V

- Developed in conjunction with the revisions to Annex 10, Vol. V
- Developed by FSMP (previously ACP Working Group F) and NSP
- **Implementation through Regional Air Navigation Agreement by PIRG**
- Frequency Assignment Planning criteria is used by the ICAO Frequency Assignment Planning software: **Frequency Finder (FF)**

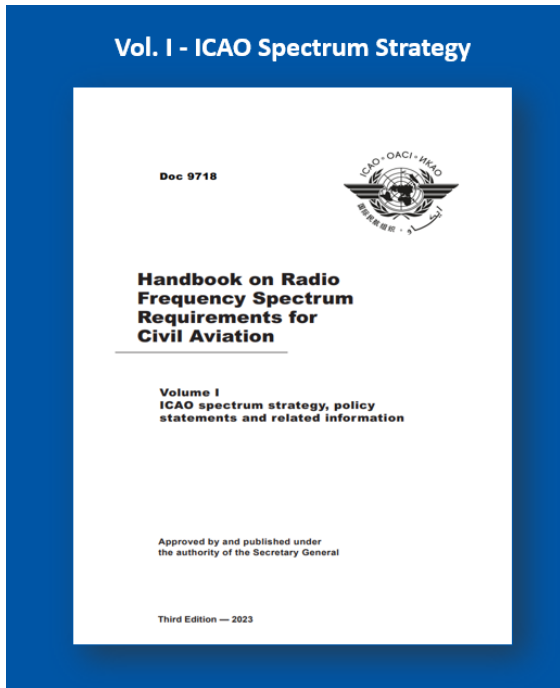
**Vol. II - Frequency Planning**

# Doc 9718 Volume II

## Frequency assignment planning

### Future work

- The 2022 update added material on radionavigation systems (ILS, VOR, DME and GBAS), as developed with the help of NSP. Some additional updates of this material is planned in Q2 2025 (Currently it is in the ICAO publication process)
- Future work will concentrate on refining the existing criteria and adding criteria for systems such as Space-based VHF and LDACS



# Doc 9718 Volume I

## Spectrum Strategy and Policies

### Overall ICAO Spectrum Policy (approved by Council)

- 1
  - ICAO Spectrum **Strategy**
    - Long term spectrum use of current and future radio systems
  - ICAO Spectrum **Policy Statements**
    - Specific actions to assist in meeting the Strategic Objectives
- 2
  - ICAO **Position** for future WRC's
    - Medium and long term availability of spectrum for aviation

# ICAO Position and WRC preparations

**ITUWRC**



ICAO position established  
after WRC agenda established

FSMP is the focal point on  
all aspects related to  
development of ICAO's position

Reviewed by ANC,  
State Letter process,  
Approved by Council



The Position presents ICAO  
views on all WRC agenda items  
of interest to international civil  
aviation, with particular regard  
to safety and regularity of flight

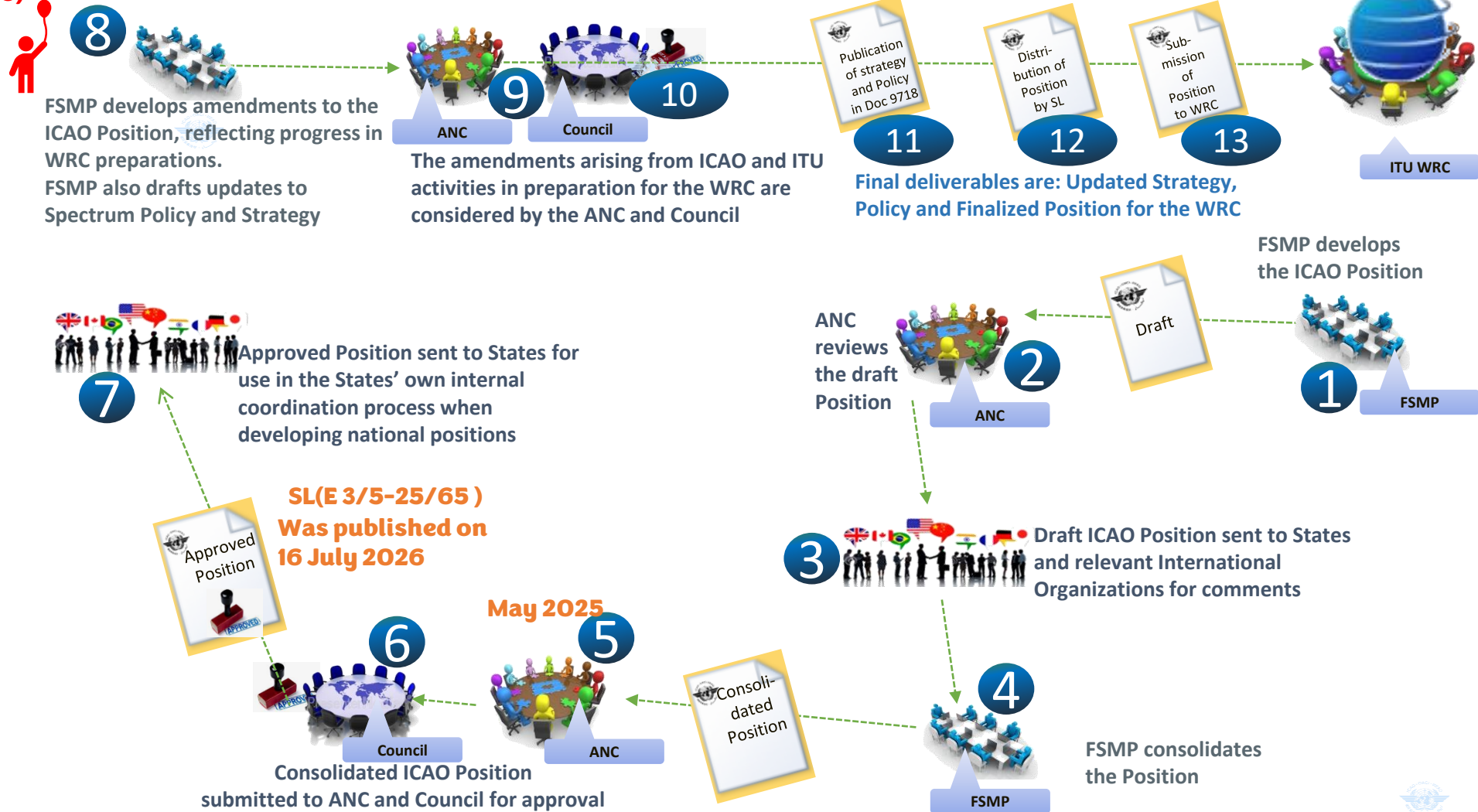
ITU WRC Agenda established

Proper co-ordination  
with the 7 ICAO  
Regional Offices



## ICAO Position and WRC preparations

**WE ARE HERE**  
**(Mar 2026)**






ICAO

# RECONNECTING THE WORLD



## ICAO Position for the International Telecommunication Union (ITU) World Radiocommunication Conference 2027 (WRC-27)

- The ICAO Council, at the ninth meeting of its 235th Session held on 25 June 2025, approved the ICAO Position for ITU WRC-27.
- The relevant State Letter was published on 16 July 2025.
- States and Int Orgs are requested to take into account the ICAO Position, to the maximum extent possible,
  - in their prep activities for the WRC-27 at the national level,
  - in the activities of the regional telecommunication organizations and
  - in the relevant meetings of the ITU.



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

Tel.: +1 514-315-2099  
 Ref: E 3/5-25/65 16 July 2025

**Subject:** ICAO Position for the International Telecommunication Union (ITU) World Radiocommunication Conference (2027) (WRC-27)

**Action required:** To consider the ICAO Position when developing your State's position for WRC-27, CAA representation in your State's Delegation participating in WRC-27, and to support the ICAO Position during WRC-27

Sir/Madam,

- I have the honour to inform you that the ICAO Council, at the ninth meeting of its 235th Session held on 25 June 2025, approved the ICAO Position on issues of critical concern to aviation which are on the agenda of the International Telecommunication Union (ITU) World Radiocommunication Conference (2027) (WRC-27) as contained in the attachment to this letter.
- The ICAO Position will be submitted to the ITU WRC-27. In addition, ICAO will undertake, within the budget limits of the Organization, to present the ICAO Position at the WRC-27 preparatory activities within ITU and Regional Telecommunications Organizations. However, I wish to emphasize that active support from States is the only way to ensure that the results of WRC-27 reflect civil aviation's continued need for radio frequency spectrum. In this regard, I invite your attention to Assembly Resolution A41-7 (Support of the ICAO Policy on radio frequency spectrum matters). Hence, I would kindly request your support and participation in regional WRC-27 preparatory meetings and symposia, and that representatives from your civil aviation administration, relevant international organizations representing the civil aviation industry and other civil aviation stakeholders are included in your delegation to the conference.
- I wish to request that the enclosed information be considered for incorporation into your State's position for WRC-27 and that your delegation to the conference be prepared to support the ICAO Position on issues of concern to international civil aviation.

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

*JCS*  
for Juan Carlos Salazar  
Secretary General

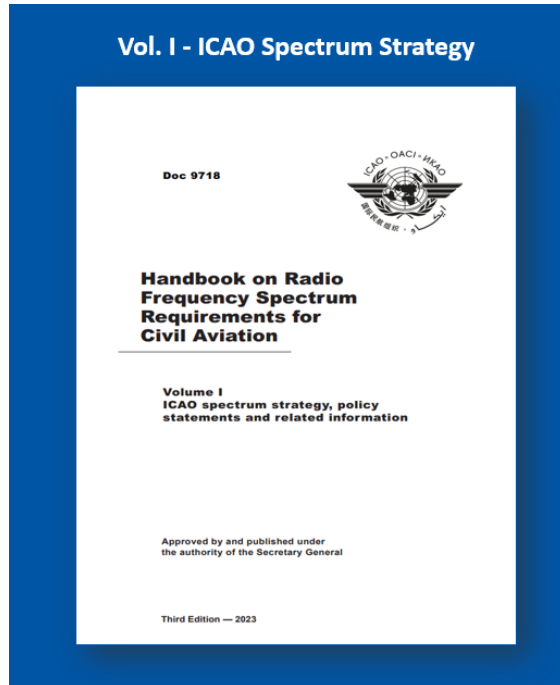
**Enclosures:**  
 A — Executive Summary  
 B — ICAO Position for the ITU WRC-27

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 Canada H9C 5H7

**State Letter 24/93 (ICAO-NET)**

<a href="#">SL.2025.65 E</a>	<a href="#">ar</a>	<a href="#">es</a>	<a href="#">fr</a>	<a href="#">ru</a>	<a href="#">zh</a>
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*(To promote ICAO's Position, ICAO plans to organize four regional WRC-27 preparatory workshops, including this workshop in Mar 2026.)*



## Doc 9718 Volume I

### Spectrum Strategy and Policies

## Future work

- Inclusion of the **ICAO position** for WRC-27 and other additional updates of this material is planned in Q2 2026 (*now it is in the publication process*)

# ICAO Assembly 42nd Session (A42)

## (23 Sep to 03 Oct 2025)

- At the Technical Commission of the 42nd Assembly, Spectrum and CNS-related issues were discussed, and the attached report was approved at the Plenary. (refer to the [A42-WP/696](#))
- Related topics discussed under the Agenda Item 24 are as follows.
  - 1) **ICAO Policy on Radio Frequency (RF) Spectrum Matters;**
  - 2) GNSS vulnerabilities and resilience; and
  - 3) Other CNS issues

The assembly acknowledge that **GNSS interference and unresolved radio frequency spectrum issues such as potential interference with radio altimeters, have a significant impact on aviation safety, security, and efficiency.** With **the endorsement of amendments to relevant Assembly resolutions on this subject, the Assembly reiterated the vital and increasing importance of the radio frequency spectrum and requested States' active engagement to ensure that resilient CNS capabilities remain available to maintain aviation safety.**

Furthermore, the Technical Commission acknowledged the urgency of this subject and agreed that the contents of A42-WP/329 and A42-WP/348 be brought to the attention of appropriate expert group(s) for further consideration and actions.

# ICAO Assembly 42nd Session (A42) (23 Sep to 03 Oct 2025) Cont.

- At the Technical Commission of the 42nd Assembly, Spectrum and CNS-related issues were discussed, and the attached report was approved at the Plenary. (refer to the [A42-WP/696](#))
- **The following WPs were allocated to a sub-batch, “ ICAO Policy on Radio Frequency Spectrum Matters” of the Agenda Item 24 at the Technical Commission.**

## ICAO Policy on Radio Frequency (RF) Spectrum Matters;

<a href="#">WP/33</a>	ICAO Council	SUPPORT OF THE ICAO POLICY ON RADIO FREQUENCY (RF) SPECTRUM MATTERS
<a href="#">WP329</a>	IATA	SPECTRUM RESILIENCE: BALANCING SPECTRUM EFFICIENCY WITH AVIATION SAFETY
<a href="#">WP/348</a>	Brazil	DEFENCE OF THE ICAO POSITION ON THE AERONAUTICAL FREQUENCY SPECTRUM FOR THE WORLD RADIOCOMMUNICATION CONFERENCE (WRC/27)

Also, IPs provided by Saudi Arabia (A42-[WP/115](#) and [A42-WP/157](#)) are noted.

- **The Assembly endorsed the amendment to Assembly resolution 41-7.  
Resolution A42-7: Support of the ICAO policy on radio frequency spectrum matters**

# FREQUENCY SPECTRUM MANAGEMENT

## 42<sup>nd</sup> ICAO Assembly (A42) (23 Sep to 03 Oct 2025)

255 WPs\* were addressed by the Technical Commission of the A42. As a result, the Assembly adopted following six Assembly Resolutions, which were discussed and recommended by the Technical Commission.

Resolution A42-6: ICAO global planning for safety and air navigation

Resolution A42-9: Consolidated statement of continuing ICAO policies and associated practices related specifically to air navigation

### **Resolution A42-7: Support of the ICAO policy on radio frequency spectrum matters**

Resolution A42-8: Consolidated statement of continuing ICAO policies and practices related to a global air traffic management (ATM) system and communications, navigation, and surveillance/air traffic management (CNS/ATM) systems

Resolution A42-10: Regional cooperation and assistance to resolve safety deficiencies

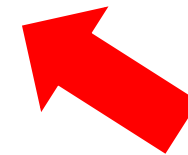
Resolution A42-11: Halon replacement

\* A total of 706 working papers were discussed at A42

# FREQUENCY SPECTRUM MANAGEMENT

## Assembly Resolution A42-7

***1. Encourages Member States to foster an environment that enables national radio regulatory authorities to work in close coordination with civil aviation authorities***, thereby ensuring that aviation interests are properly reflected in national spectrum policies and State positions in preparation for and during ITU WRCs;



**Newly added  
by A42**

# FREQUENCY SPECTRUM MANAGEMENT

## Assembly Resolution A42-7

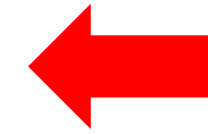
**2. Urges Member States, international organizations and other civil aviation stakeholders to support firmly the ICAO frequency spectrum strategy and the ICAO position** at WRCs and in regional and other international activities conducted in preparation for WRCs, including by the following means:

<b>BE RESPONSIBLE</b>	working together to deliver spectrum-efficient aeronautical systems as well as frequency management that meet current best practices
<b>BE ACCOUNTABLE</b>	supporting ICAO activities relating to the aviation frequency spectrum strategy and policy through relevant expert group meetings and regional planning groups
<b>ADOPT A COMMON AVIATION POSITION</b>	undertaking to provide for aviation interests to be fully integrated in the development of their positions presented to regional telecommunications fora involved in the preparation of joint proposals to the WRC including in their proposals to the WRC, to the extent possible, material consistent with the ICAO position
<b>SUPPORT</b>	supporting the ICAO position and the ICAO policy statements at ITU WRCs as approved by Council and incorporated in the Handbook on Radio Frequency Spectrum Requirements for Civil Aviation (Doc 9718)
<b>PARTICIPATE</b>	undertaking to provide civil aviation experts to fully participate in the development of States' and regional positions and development of aviation interests at the ITU
<b>REPRESENT AVIATION INTERESTS</b>	ensuring, to the maximum extent possible, that their 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

# FREQUENCY SPECTRUM MANAGEMENT

## Assembly Resolution A42-7

3. *Urges Member States to actively engage with their radio regulatory authorities in order to incorporate aviation interests with other national interests*, especially in preparation for and during ITU WRCs;



**Newly added  
by A42**

4. *Urges Member States to consider, as a priority, **public and aviation safety** when deciding how to enable new or additional services, and to consult with aviation safety regulators, subject matter experts and airspace users, **to provide all necessary considerations and to establish regulatory measures to ensure that incumbent aviation systems and services are free from harmful interference:***

5. *Requests the Secretary General to bring to the attention of ITU the importance of adequate radio frequency spectrum allocation and protection for the safety of aviation; and*

6. *Instructs the Council and the Secretary General, as a matter of high priority within the budget adopted by the Assembly, to ensure that the resources necessary to support the development and implementation of a comprehensive aviation frequency spectrum strategy, as well as increased participation by ICAO in international and regional spectrum management activities are made available*



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Thank You!