



ICAO

RECONNECTING THE WORLD



World Radiocommunication Conferences (WRC) Process

ACAO/ICAO Frequency Management Workshop
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Prepared by

Loftur Jonasson ICAO/HQ
Mie Utsunomiya ICAO/HQ
Fabiola Chouha ICAO/HQ



International Telecommunication Union (ITU)

Radio Regulations

World Radio Conference (WRC)

Processes of International agreements

WRC- General Overview

Role of ICAO at ITU-R meetings and WRCs

International Telecommunication Union (ITU)



UN Specialized agency established to standardize and regulate international radio and telecommunications

ITU Regulatory publications

1. The Constitution of the International Telecommunication Union
2. The Convention of the International Telecommunication Union
3. The Administrative Regulations, which complement the Constitution and the Convention
 - ITU International Telecommunication Regulations (ITR), and
 - The Radio Regulations (RR)

The agreements made under its auspices are incorporated in the Final Acts of World Radiocommunication Conferences.





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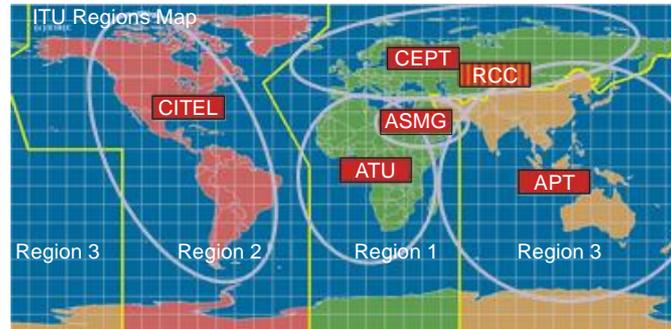
Role of ICAO at ITU-R
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Radio Regulations

Radio regulations

The tool for spectrum management for allocating radio frequencies, sharing and harmonizing their use for different purpose

- Facilitate equitable access to and rational use of the radio frequency spectrum and the geostationary orbit
- Ensure availability and protection from harmful interference of frequencies for distress and safety purposes
- Assist in prevention and resolution of cases of harmful interference
- Facilitate efficient and effective operation of radiocommunications services
- Provide for, and regulate new applications of telecommunications technology





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World Radiocommunication conference (WRC)



The highest level of Spectrum Management takes place at the ITU World Radiocommunication Conferences (WRC)



- The telecommunication authorities normally control and operate the mechanism, which develops the national proposals for amending the RRs for submission to the ITU WRCs.
- National and international (regional) preparatory committees function as the coordination medium.
- Aviation is one of users and no right to control the mechanism. A consequence of this process is that aeronautical frequency managers need to develop, and lobby for an aviation position on frequency spectrum use





World Radiocommunication conference (WRC) Cont.

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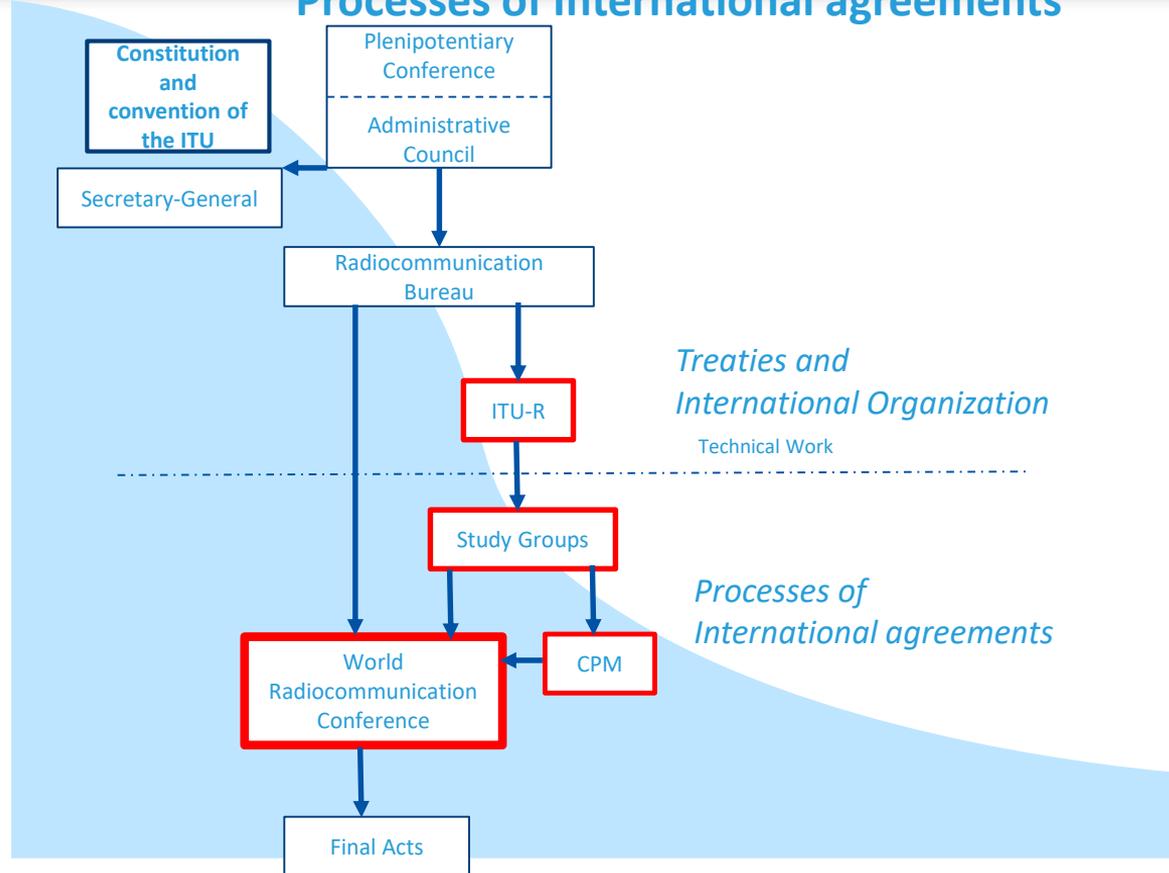


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Processes of International agreements





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WRC - General overview

- 1 WRCs update the International Radio Regulations**
- 2 Held every 4 years**
 - Last was 28 Oct - 22 Nov 2019
 - Next in Q4 2023
- 3 Main purposes**
 - To revise the Radio Regulations (RR);
 - To address Radiocommunication issues of a worldwide character.
- 4 Why participate at World Radiocommunication Conferences**
 - To protect existing services
 - To obtain access to spectrum for new services
 - To enhance spectrum access for existing services
 - To facilitate market access for radio equipment manufacturers; and
 - To provide regulatory certainty to operators





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ITU WRC

WRC-19 by numbers

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~3500
delegates



- Over 50 meetings/day, including weekends
- After 4AM – latest finish to a meeting
- 9AM - ...start time the next (same) morning

4 Weeks

(5 ½ weeks, when counting RA-19 and CPM19-1)



- 165 Administrations
- Several UN specialized agencies and offices, including ICAO, IMO, WMO, UNOOSA...
- 260 other international / regional, scientific and industrial agencies or organizations.



Role of ICAO at ITU-R meetings and WRCs

The ITU forum: great importance to civil aviation interests
But a very competitive environment!

- Aviation or any other sector cannot expect preferential treatment
- Those that do their homework and participate succeed, others lose



Definition of Radio Frequency Management:

“Radio frequency management is done by experts who meld years of experience with a curious blend of regulation, electronics, politics and not a little bit of larceny. They justify requirements, horsetrade, coerce, bluff and gamble with an intuition that cannot be taught other than by long experience.”

Vice Admiral Jon L. Boyes
U.S. Navy

Role of ICAO

- submit its internationally agreed statement on telecommunication policies and frequency use and
- ensure that ICAO position and policy is propagated at these conferences ensuring that aeronautical allocations and frequency use are safeguarded.

In order to secure adequate spectrum for aviation, it is essential that the aviation position be rational, well considered and well presented in discussions that are becoming increasingly diverse, complex and commercial in their character and scope.

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