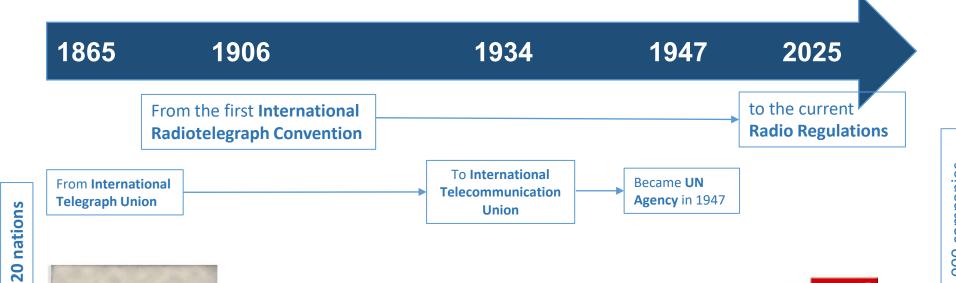


CPM27-2 and WRC-27 preparations- Focus on WAS/RLAN

DSA Global Summit 2025 Dubai, UAE 17 November 2025

Ilham Ghazi Radiocommunication Bureau

160 YEARS OF INNOVATION



INTERNATIONALE CONCLUE ENTRE L'AUTRICHE, LA HONGRIE, LA BELGIOUE, LE BRÉSIL, LA BULGARIE, LECHILL LE DANEMARK, L'ESPAGNE, LA FRANCE, LA GRANDE-BRETAGNE, LA GRECE, L'ITALIE, LE JAPON, LE MEXIQUE, MONACO, LA NORVEGE, LES PAYS-BAS, LA PERSE, LE PORTUGAL, LA ROUMANIE, LA RUSSIE, LA SUEDE, LA

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1865

On

founded

Radio Regulations follow and anticipate technological advancements



International treaty











and international Today 194 countries and over 1,000 companies, universities, research institutes organisations

ITU's mission







Connecting everyone and leaving no one behind is not just a vision—it is a necessity in today's interconnected world.

Affordable access to communications: foundation for economic growth, education, healthcare, environmental sustainability, and social inclusion.

Working together—ITU, governments, regulators, industry, civil society—can ensure that spectrum serves as a bridge, not a barrier, to connectivity.

Spectrum is the invisible infrastructure that enables all of the above!

WRCs ROLE



Allocate **spectrum/orbit resources** for emerging radio applications, while protecting the existing usage



Maintain the **right balance** between the spectrum requirements of all radiocommunication services, and Spectrum usage, including sharing whenever possible



Achieve **global spectrum harmonization** for economies of scale and interoperability of the equipment



Create **regulatory certainty** for users, regulators and telecommunication industry





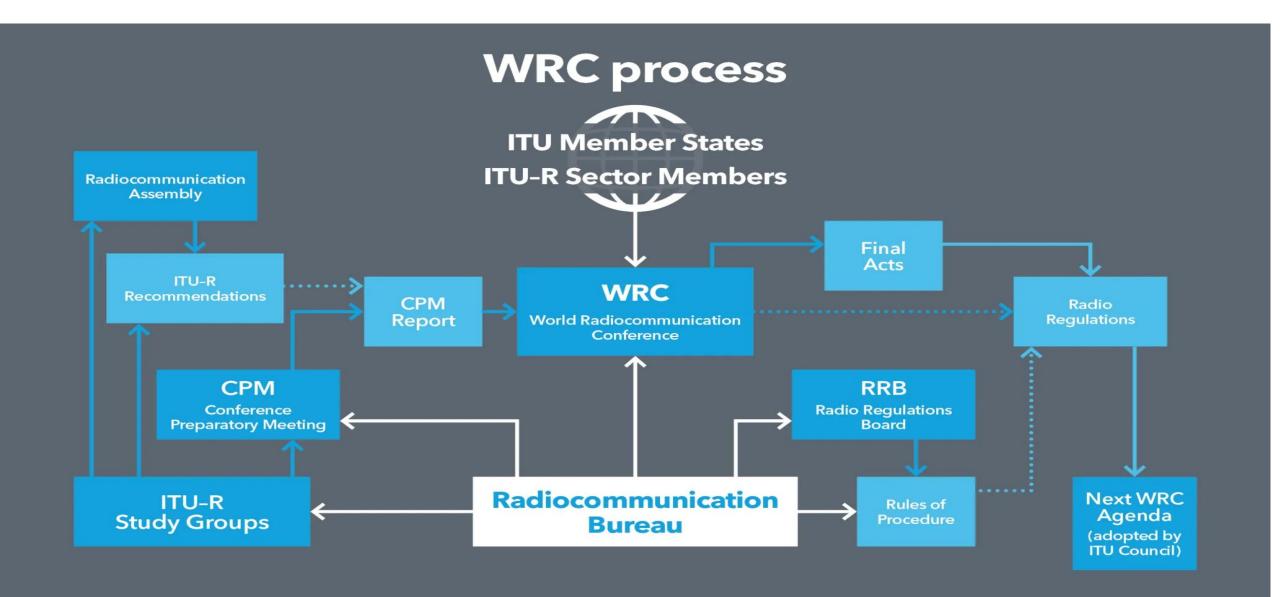
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WRCs are organized every 3-4 years

WRCs update the Radio Regulations (RR)

RR is intergovernmental treaty ratified by governments -> mandatory for application by countries

The WRC cycle



Outcome of WRCs on WAS/RLANs

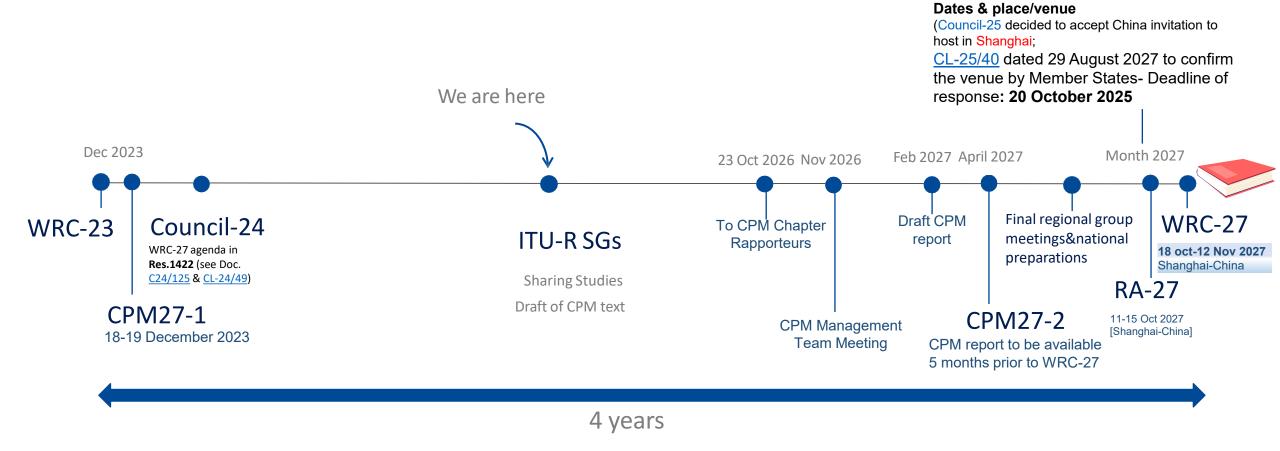
WRC-03 allocated the frequency bands 5 150-5 350 MHz and 5 470-5 725 MHz on a primary basis to the mobile service for the implementation of WAS/RLANs;

WRC-19: 5 150 - 5 250 MHz: Changed the regulatory conditions by allowing the use of WAS/RLANs in trains and cars and a limited outdoor deployment due to protection of space services.

WRC-23: 6425-7125 MHz (R1), 6425-7125 MHz (2 countries in R2), 6425-7025 MHz (3 countries in R3) and 7025-7125 MHz (R3) identified for IMT. But also used for the implementation of WAS/RLAN. → flexibility remains for national regulators or Regional decisions.

Until WRC-27: No agenda item on WAS/RLAN. However, studies on possible IMT identifications in the band 7125-7250 and 7750-8400 MHz in Region 1, 7125-8400 MHz in Region 2 and 3, are ongoing in WP5D/5A.

Preparations for CPM27-2, RA-27 and WRC-27



Some history

- Prior to 1992, WARC agendas were set by the ITU Council. This body has limited membership and little radio expertise.
- In 1992 it was decided to hold WRCs on a regular basis and task each WRC with agreeing a draft agenda for the following WRC.
- The ITU council still retains responsibility for the final approval of the agenda, timing and place of each WRC.

Inter-regional Information Sessions on WRC-27 Preparation (IRIS)

WRC-27

Inter-regional Information Sessions (IRIS) 1st Inter-regional Information Sessions on WRC-27 Preparation
3-5 December 2025

2nd Inter-regional Information Sessions on WRC-27 Preparation [4-12 December 2026]

3rd Inter-regional Information Sessions on WRC-27 Preparation (tbc: Q3/Q4 2027)



Thank you!

Ilham Ghazi Head, Broadcasting Division Radiocommunication Bureau

DSA Global Summit 2025- Dubai 17 November 2025



Radio Regulation Navigation Tool (RRNT) and RR5 Table of Frequency Allocation (RR5 TFA)



- The RRNT is a Java-based desktop application that provides a streamlined PDF viewing experience on Windows, macOS, and Linux.
- Features
 - Browse the latest editions of the Radio Regulations (4 Volumes), the Rules of Procedure, and the ITU Constitution and Convention.
 - Jump from those publications to cited (but not incorporated)
 ITU-R Recommendations-no additional downloads required.

The 2025 edition, released in October 2025, incorporates both 2024 RR and the most recent updates to the 2021 Rules of Procedure.

- The ITU RR5 TFA is a stand-alone application that runs on individual user's PC and requires neither network nor Internet connection.
- Features:
 - Query and analyze the Table of Frequency Allocations and its associated footnotes, as in Article 5 of the RR.
 - Export data to various formats, trace and compare the evolution of the Article 5 Table and its associated footnotes (from the 2001 Edition onward).
 - provides for the extraction and modification of the National Table of Frequency Allocations for a given geographic area (country), based on the corresponding "International Plan" which results after combining the information contained in Article 5 of the Radio Regulations.

The 2024 version incorporates the RR2024 and the latest updates to the 2021 Rules of Procedure.

The software can be purchased from here



The software is free to use: Windows | Mac

WRC-27 agenda – FSS, BSS and MSS issues

No.	WRC-27 Agenda Item	Description	WRC-23 Resolution	Responsible ITU-R Group
1.1	Aeronautical/maritime ESIMs 47.2-50.2 GHz / 50.4-51.4 GHz	Studies for M-ESIMs/A-ESIMs, actions at WRC-27 to meet increasing needs in mobile satellite broadband	176	WP 4A
1.2	FSS earth stations with smaller antenna in 13.75-14 GHz	Revise sharing conditions in 13.75-14 GHz to allow FSS ES with smaller antennas, to provide for more spectrum	129 (COM6/1)	WP 4A
1.3	Enabling gateway stations in 51.4-52.4 GHz for NGSO FSS	Revise conditions in 51.4-52.4 GHz to enable FSS NGSO gateways for broadband services	130 (COM6/3)	WP 4A
1.4	FSS/BSS allocations in 17 GHz in Region 3	FSS allocation in 17.3-17.7 GHz and BSS in 17.3-17.8 GHz in R3, to globally harmonize FSS, provide BSS spectrum	726 (COM6/24)	WP 4A
1.5	Unauthorized operation of NGSO earth stations	Limit unauthorized operation of NGSO earth stations of FSS/MSS and associated issues of the service area	14 (COM6/6)	WP 4A
1.6	Equitable access to FSS in 40 GHz, 42GHz, 48GHz, 50 GHz	Technical, regulatory measures for equitable access to FSS 37.5-42.5 GHz/42.5-43.5 GHz/47.2-50.2 GHz/50.4-51.4 GHz	131 (COM6/7)	WP 4A
1.11	Space-to-space links in MSS bands 1.5/1.6 GHz, 2.5 GHz	Space-to-space links in MSS bands 1.5/1.6 GHz, 2.5 GHz, for near-real time relay of data to or from the ground	249	WP 4C
1.12	MSS allocations for IoT developments	MSS allocations in 1 427-1 432 MHz, 1 645.5-1 646.5 MHz, 1 880-1 920 MHz for development of IoT through NGSO	252 (COM6/8)	WP 4C
1.13	MSS – IMT direct to device connectivity	MSS allocations in 694 - 2 700 MHz for direct connectivity between space stations and IMT terrestrial devices	253 (COM6/9)	WP 4C
1.14	Additional MSS allocations	Additional MSS allocations in 2 010-2 025 MHz, 2 160-2 170 MHz in R1&3 and in 2 120-2 160 MHz globally	254 (COM6/10)	WP 4C

WRC-27 agenda – Fixed, mobile, science services

No.	WRC-27 Agenda Item	Description	WRC-23 Resolution	Responsible ITU-R Group		
Fixed, mobile, radiolocation services						
1.7	IMT in 4400-4800 MHz / 7125- 8400 MHz / 14.8-15.35 GHz	IMT identifications in in 4400-4800 MHz / 7125-8400 MHz / 14.8-15.35 GHz, mainly for IMT-2030 and beyond	256 (COM6/26)	WP 5D		
1.8	Radiolocation in 231.5-275 GHz / 275-700 GHz	Allocations/ identification to RLS in 231.5-275 GHz/275-700 GHz for radars and radiometers for imaging and localization	663	WP 5B		
1.9	Modernization of AP26 – High Frequency AM(OR)S	Introduction of wide-band digital channels in AP26 – Plan for HF aeronautical mobile (off-route) service	411 (COM6/2)	WP 5B		
1.10	PFD and EIRP limits in 71-76 GHz, 81-86 GHz	Inclusion pfd, e.i.r.p. limits in Article 21 for FSS, MSS, BSS to protect fixed and mobile services in 71-76 GHz, 81-86 GHz	775	WP 5C		
Science services						
1.15	SRS for lunar communications	New/modified SRS allocations for systems on lunar surface and between systems in lunar orbit and on lunar surface	680 (COM6/4)	WP 7B		
1.16	Radioastronomy operating in specific Radio Quiet Zones	Protection of radioastronomy from NGSO systems in Radio Quiet Zones in some bands between 10.6 and 134 GHz	681 (COM6/11)	WP 7D		
1.17	Space weather sensors	Allocations to MetAids service for receive-only space weather sensors and developing protection criteria	682 (COM6/12)	WP 7C		
1.18	EESS and Radioastronomy above 76 GHz	Protection of EESS (passive) and radio astronomy above 76 GHz from unwanted emissions of active services	252 (COM6/8)	WP 7C		
1.19	EESS (passive) in 4 200-4 400 MHz and 8 400-8 500 MHz	Global allocations to EESS in 4200-4400 MHz, 8 400-8 500 MHz for measurements of sea surface temperature	674 (COM4/8)	WP 7C		