

ITU and the Radiocommunication Sector

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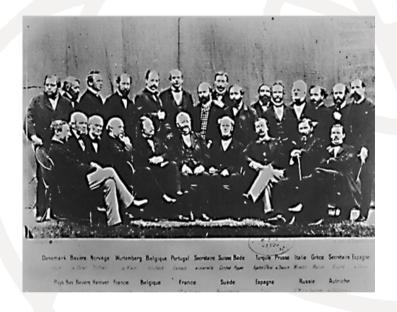


ITU in brief

Committed to Connecting the World



20 countries founded on 17 May 1865 the International Telegraph Union (ITU)



Today : **191** Member States,
700 Sector Members & Associates
750 staff / 70 nationalities
Annual budget = 140 mil. USD
<u>http://www.itu.int</u>



ITU is the leading United Nations agency for information and communication technologies



Key priorities

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radio spectrum standards











digital divide







Emergency Telecommunications

- Natural disasters affect people worldwide
- Poor and remote communities most vulnerable
- ICT help reduce impact and revive development efforts
- ITU Framework for Cooperation in Emergencies:
 - Timely & universal access in aftermath of disaster
 - Standards for interconnection & call prioritization
 - Effective frequency use for emergencies
 - broadcasting, maritime and public safety signals
 - Disaster resilient networks
 - Telecommunication equipment for relief effort, including telemedicine to help injured
 - Legal frameworks to allow cross-border deployment
 - Rehabilitation of affected networks



ITU Bridging the Digital Divide

- ICTs are omnipresent tools (e-Commerce, e- government, e-learning, and e-Health, e-community development...)
- Global issues that will shape our common future in the 21st century.

Success in finding viable and sustainable solutions to bridging the digital divide will determine to what extent we are able to fulfill the World Summit on the Information Society (WSIS)



1906 (Berlin)	International Radiotelegraph Convention (1 st <i>Radio Regulations</i>)	
1927 (Washington DC)	CCIR (International Radio Consultative Committee)	
1932 (Madrid)	Telegraph & Radiotelegraph Conventions merged: the International Telegraph Union became the International Telecommunication Union	
1947 (Atlantic City)	IFRB (International Frequency Registration Board) ITU as UN specialized agency	
1992 (Geneva)	 ITU-R (Radiocommunication Sector): RRB (Radio Regulations Board) BR (Radiocommunication Bureau) 	
2006	100 years of ITU Radio Regulations	

ITU-R mission

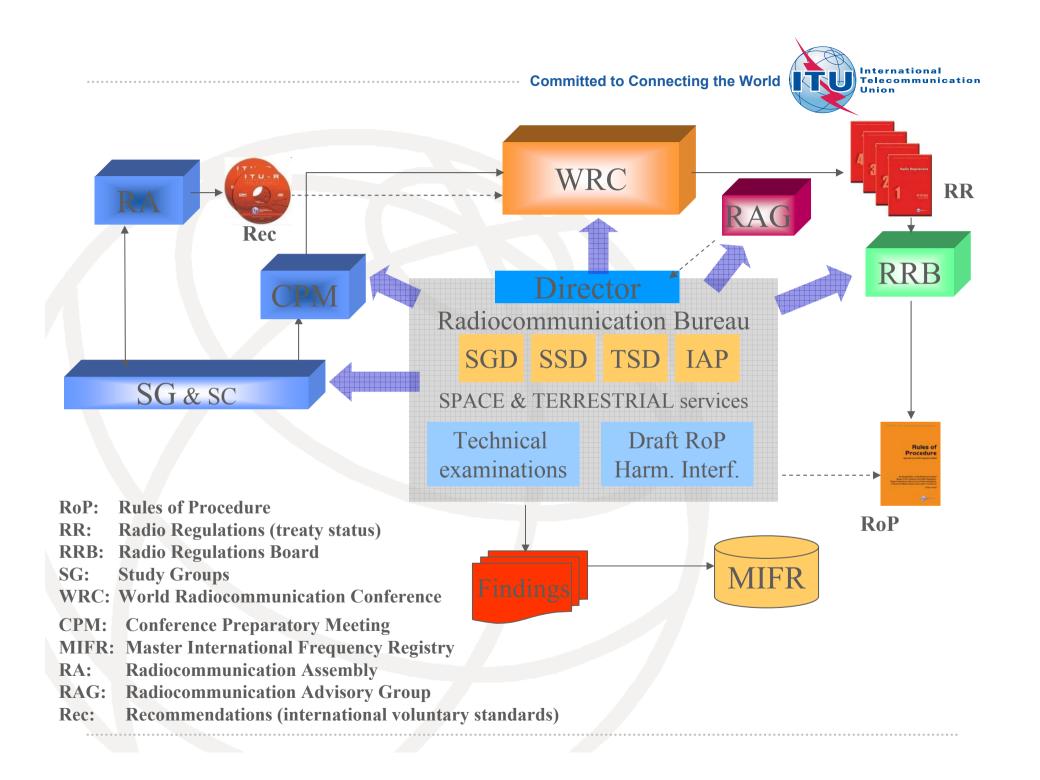
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"To ensure rational, equitable, efficient and economical use of the **radio-frequency spectrum** by all radiocommunication services, including those using satellite orbits, and to carry out studies and adopt recommendations on radiocommunication matters."

Role conducted through (inter alia): • World and Regional Radiocommunication Conferences • Radiocommunication Study Groups • Radio Regulations Board • Radiocommunication Bureau

In implementing this mission, the actions in ITU-R aim at creating the conditions for harmonized development and efficient operation of existing and new radiocommunication systems, taking due account of all parties concerned.





WRC

World Radiocommunication Conference

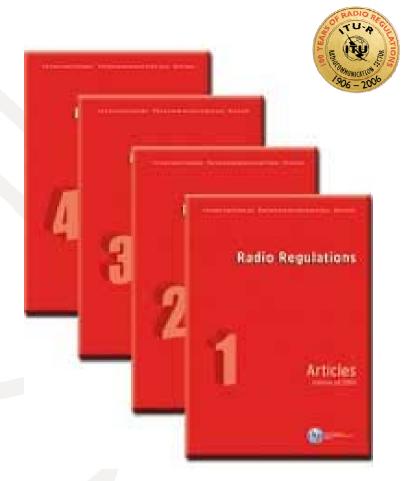
- Updates the Radio Regulations (treaty status)
 - Spectrum Allocation
 - Notification procedures
 - Administrative and operational procedures
- Adopts Resolutions
 Held every 3-4 years

WRC

http://www.itu.int/ITU-R/index.asp?category=conferences&rlink=wrc-12&lang=en



The Radio Regulations (international *treaty*) incorporates the decisions of the World Radiocommunication Conferences, including all Appendices, Resolutions, Recommendations and ITU-R Recommendations incorporated by reference.



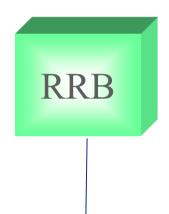
Frequency block allocations to defined radio services (Article 5)
 Mandatory or voluntary regulatory procedures (coordination, plan modification, notification, recording) that are adapted to the allocation structure

Radio Regulations Board (RRB)

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Approves Rules of Procedure to facilitate the application of the **Radio Regulations** Considers cases of harmful interference & appeals against BR decisions on frequency assignment Part-time elected members & max. 3 or 4 meetings/year



Space Services

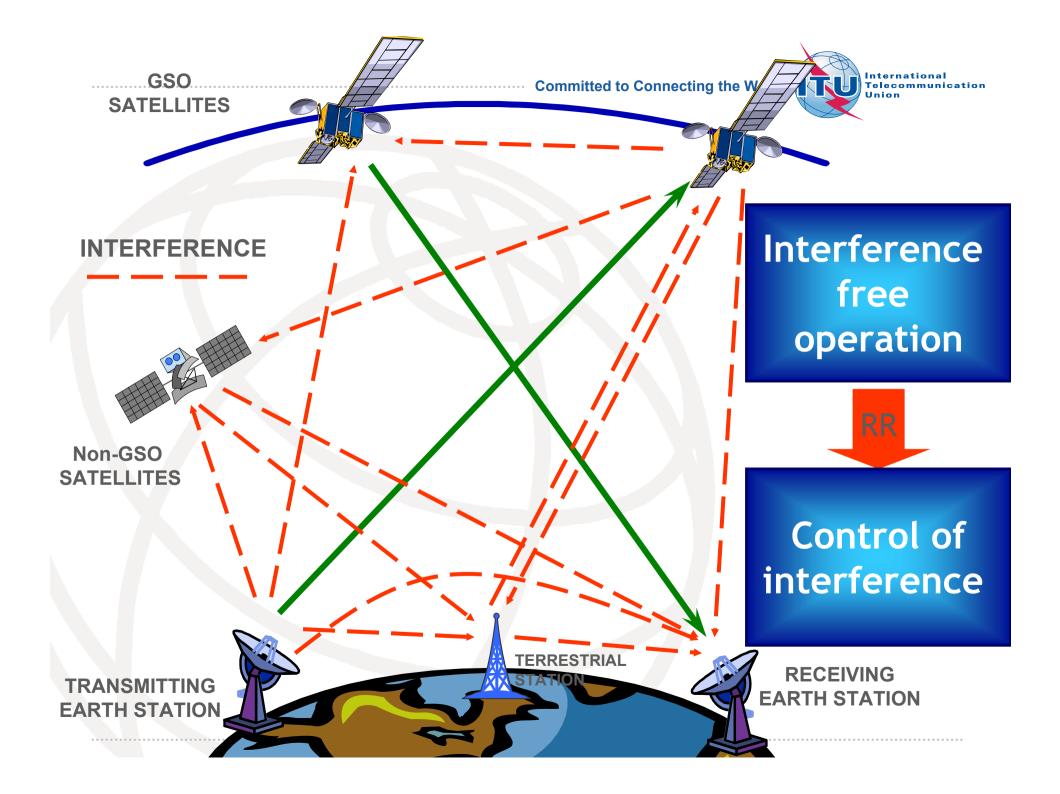
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✓ Coordination and recording procedures for space systems and earth stations: capture, processing and publication of data and examination of frequency assignment notices submitted by administrations for inclusion in the formal coordination procedures or recording in the Master International Frequency Register (MIFR).

 Procedures for space related assignment or allotment plans

Assistance to administrations on all of the above issues



Terrestrial Services

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- Regulatory and Technical Functions
 - Broadcasting / Fixed and Mobile / Maritime Mobile / Aeronautical Mobile
- Terrestrial Plans
 - AP25, AP26, AP27, ST61, GE75, RJ81, GE84, GE85M, GE85N, RJ88, GE89, GE06
- HF Broadcasting (Art.12)
- Administrative and Operational Procedures
 - International means of identification
 - all sign series / maritime identification digits / blocks of selective call sign numbers
 - Service Documents
 - Ship stations / coast stations / radio determination / call signs / MARS, etc

Harmful interference & monitoring programs

http://www.itu.int/ITU-R/terrestrial

ITU-R Study Groups

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SG 1: Spectrum management SG 3: Radiowave propagation SG 4: Satellite services SG 5: Terrestrial services SG 6: Broadcasting service SG 7: Science services >900 Recommendations

- Standards" in areas of spectrum management and radio technology
 - Result of consensus from meetings of worldwide experts
- Some referred to in RR
- Used by spectrum planners and system designers

In addition: CCV: Coordination Committee for Vocabulary CPM: Conference Preparatory Meeting SC: Special Committee on regulatory and procedural matters

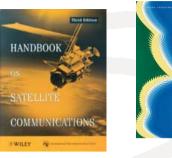
http://www.itu.int/ITU-R/go/rsg

ITU-R Publications

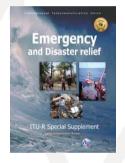






















- BR International Frequency **Information Circular (IFIC)**
- Space Radiocommunication Stations on DVD-ROM
- **Radio Regulations**
- Service documents
- ITU-R Recommendations
 - **Online subscriptions**
 - **CD/DVD-ROM**
 - Paper
- Handbooks

http://www.itu.int/publications





International		中文 Español Français Русский Ф	
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	Home : ITU-R : Information : ITU-R Home	Google" Custom Search Search	
tadiocommunication Sector (ITU-R)	ITU Sectors Newsroom Events Publications Statistics About ITU		
Vorld Radiocommunication	Radiocommunication Sector (ITU-R)		
adiocommunication semblies (RA)	The ITU Radiocommunication Sector (ITU-R) plays a vital role in the global management of the radio-frequency spectrum and satellite orbits - limited natural resources which are increasingly in demand from a large and growing number of services such as fixed, mobile, broadcasting, amateur,	Director´s corner	
adio Regulations Board (RRB)	space research, emergency telecommunications, meteorology, global positioning systems, environmental monitoring and communication services - that ensure safety of life on land, at sea and in the skies. More		
diocommunication Advisory oup (RAG)		5.	
udy Groups	In Focus: Spotlight on ITU-R's key activities		
ace Services		Biography	
rrestrial Services	ITU global standard for international mobile Maritime mobile Access and Retrieval System		
ctor Organization	telecommunications 'IMT-Advanced' (MARS)	Meetings	
embership 🕨	Radiocommunications and Climate Change		
Activities		20/09 <u>WP 1C</u> (Amsterdam) - Confirmed 27/09 <u>SG 1</u> (Geneva) - Confirmed 04/10 <u>SG 7</u> (Geneva) - Confirmed	
onferences and Meetings		05/10 <u>WP 7A</u> (Geneva) - Confirmed 05/10 <u>WP 7B</u> (Geneva) - Confirmed	
minars/Workshops	Events	ITU-R Meetings schedule	
formation 🕨		Meeting sessions - Member Information and Delegate	
blications	World Radiocommunication Conference 2012 (WRC- World Radiocommunication Seminar 2010 (WRS-	Registration	
ministrative Circulars and rculars Letters	12) <u>10</u>	Publications	
perational Plans			
rformance Reports	Regional preparation for WRC-12 2nd ITU Information Meeting on WRC-12	Key Publications Radio Regulations	
Databases and Services	Preparation, Geneva, Switzerland, 24-25 November 2010	 List VIII - List of International Monitoring Stations 	
RS		 List V - List of Ship Stations Maritime Manual - Manual for Use by the 	
AD	BR/BDT Regional Seminar "Management of radio-	Maritime Mobile and Maritime Mobile-	
IFIC (Space Services)	frequency spectrum and satellite orbits at international level", Tashkent, Republic of	Satellite Services Rules of Procedure	
IFIC (Terrestrial Services)	Uzbekistan, 21-25 June 2010		
tents		Latest Publications	
L	Newsflashes	12/11 Handbook on Spectrum Monitoring 18/04 WRC-07 Final Acts	
s	NewSildSileS	16/04 List IV 16/04 List VIIA	
rminology	13/08/10 CPM - Draft CPM Report to WRC-12 is now available !	15/04 <u>0.27/6</u>	
	12/08/10 BR Circular letter CR/318 dated 22 June 2010 - New deadline for replies	Latest Recommendations	
Other information	02/08/10 MARS - Radicommunication Bureau updates the Annex to BR Circular Letter (CM/20)	16/07 BT.1845-1 (03/10)	
dross and contacts	23/07/10 SG4 - Package of five draft new ITU-R Recommendations on RNSS systems	22/06 BT.1620-1 (03/10)	