

# ITU in an Era of Interference

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# Radiocommunication Sector

## Strategic Goals:

- ✓ Rights of access to the spectrum
- ✓ Efficient use of spectrum
- ✓ Operation free from interference
- ✓ Economies of scale
- ✓ Interoperability and roaming
- ✓ Global harmonization
- ✓ Guidelines for national & regional regulations



- GOOD QUALITY  
AND LESS COSTLY EQUIPMENTS
- MORE FAVORABLE INVESTMENT  
ENVIRONMENT (CLEAR & STABLE )

- 
- I. International Regulations
  - II. Global Standards & Guidelines
  - III. Assistance to administrations

In other words:

Free-interference operation → Maximize Quality of Service

→ Prevents loss of investment, customers and revenue  
by minimizing unusable satellite capacity due to  
interference

## **RR 1.169 harmful interference:**

*“Interference which endangers the functioning of a radionavigation service or of other safety services or seriously degrades, obstructs, or repeatedly interrupts a radiocommunication service operating in accordance with Radio Regulations (CS1003).”*

- **No Distinction** between **Deliberate/Intentional** and **Unintended** Interference
- **No specific level** to define from **Permissible Interference** (RR1.167) to **Accepted Interference** (RR1.168) and then **Harmful Interference**
- **No real Enforcement Mechanism** apart from **Art.56 Constitution and Optional Protocol**
- **As all Reg. Provisions**, may be modified by ITU Member States through WRC, PP

## On one Hand:

- I. **Right of the public to use** the international telecom service without discrimination - *CS, art.33*
- II. **Obligation of States to establish, operate and protect** telecom networks necessary to carry on the rapid and uninterrupted exchange of international telecoms - *CS,art. 38*
- III. **Member States** affirm their **commitment** to implement these Regulations in a manner that respects and upholds their **human rights obligations**.  
- *Preamble to ITU International Telecommunications Regulations-*

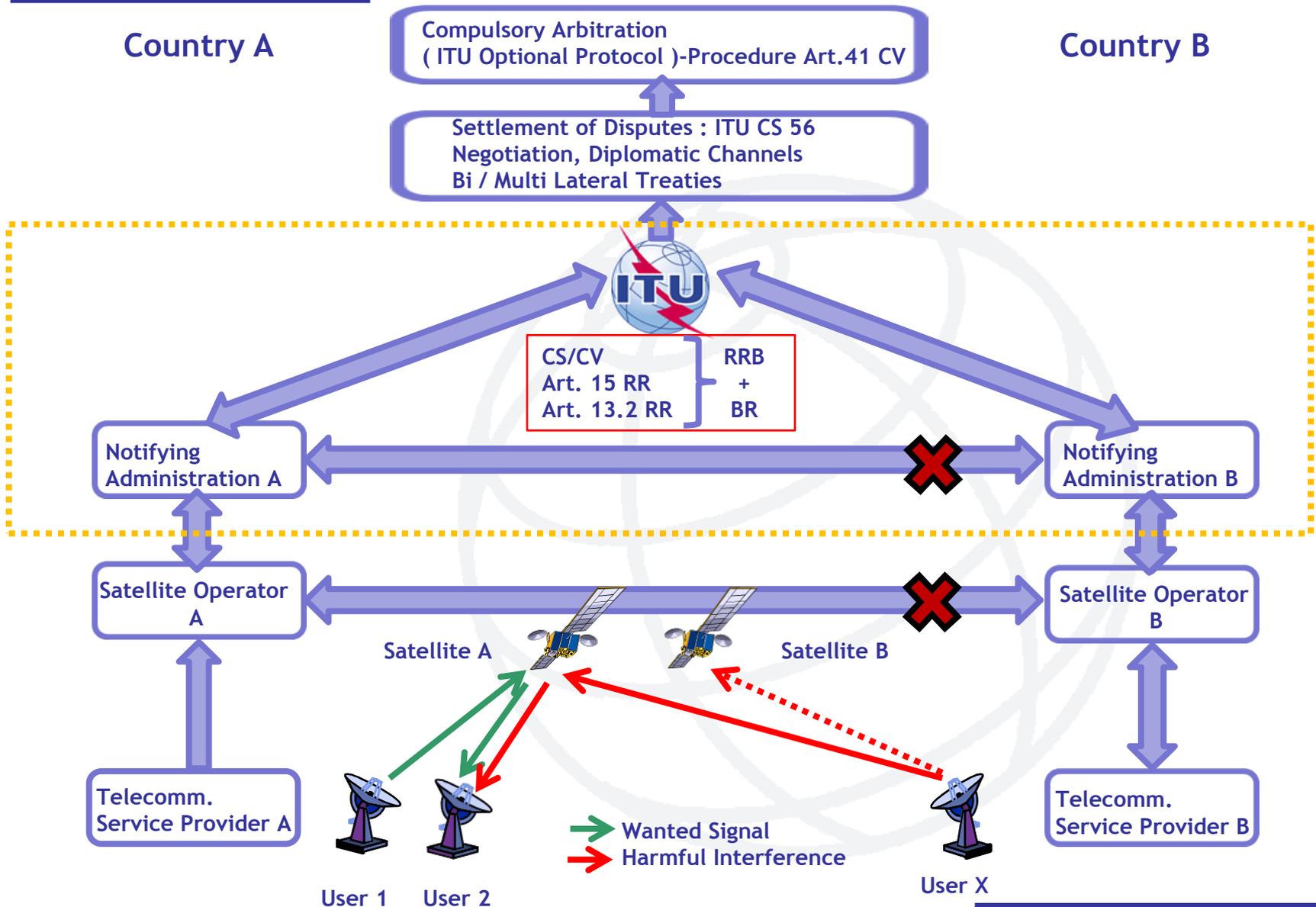


## ... on the other Hand:

- I. **Right to stop private telecommunications - CS, art.34**
  - ✓ In accordance with **national law**
  - ✓ If **transmission appears dangerous** to the security of the State or contrary to its laws, to public order or to decency
  
- II. **Right to suspend international service - CS, art.35**

If immediate notification to other Member States through the ITU secretary general
  
- III. **Member States retain their entire freedom with regard to military radio installations. -CS art.48**

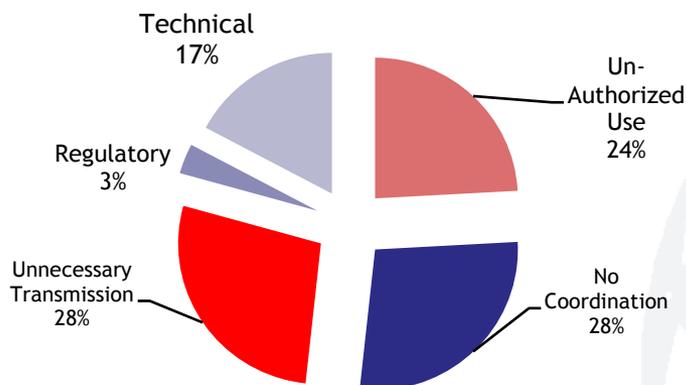
# Schema of Actions in case of Harmful Interference



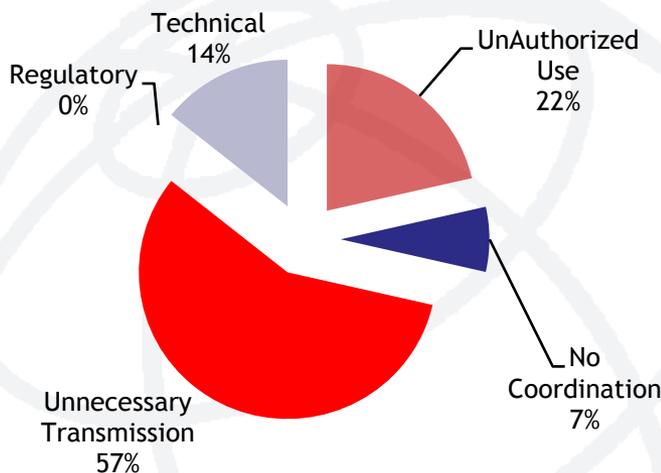
# Latest Statistics on Interference



**Nature of Interference  
Year 2013**



**Nature of Interference  
Jan - Aug 2014**



**Affected Services:**

FSS, BSS, MSS, EESS, RNSS, A  
SS

**Affected Freq. Bands:**

|           |     |
|-----------|-----|
| 437       | MHz |
| 1.2       | GHz |
| 1.5 / 1.6 | GHz |
| 2.2       | GHz |
| 3/4, 5/6  | GHz |
| 10-14     | GHz |
| 17/18     | GHz |

- ❑ Statistics are based on Information and Statements provided by Notifying Administrations Reporting the Cases to the Bureau
- ❑ One Case of Harmful Interference Reported to BR may involve several short or long time occurrences.

# Actions being taken by ITU

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- I. Extension of the International Monitoring System
  - II. Promoting the exchange of experience, cooperation, co-organization and participation in related Fora.
  - III. Providing Assistance to ITU Members
  - IV. Development of a New Rec. on Access Procedures for FSS Occasional Use, Transmissions to GSO Space Stations in 4/6 GHz and 11-12/13/14 GHz FSS Bands. (Approved and Published on Dec. 2013)
  - V. Development of a New Recommendation on Carrier ID (REC ITU-R S.2062-0 approved in September 2014)
  - VI. Development of an International Registry of Interference to Space Services
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# Summary and Key Messages:

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- I. ITU plays a key role to ensure free-interference operations of space services
- II. **Member States' utmost goodwill, cooperation and exchange of information among parties is essential**
- III. Deliberate Interference correlated with Geo-Political conflicts.
- IV. **Regulatory Mechanism is working, but there is room for Updates/Improvements**
- V. Only continuous synergistic actions by all sectors of Satellite Community can guarantee a minimum acceptable level of interference is kept.
- VI. **Next opportunities to improve the Regulations :**  
**PP-14                      Busán, South Korea, Oct-Nov 2014**  
**WRC-15                     Geneva, Switzerland, Oct-Nov 2015**

# Merci!

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