



International Telecommunication Union

**Workshop on Radio Spectrum Management
for a Converging World**

Spectrum management activities of the ITU

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ITU Workshop

ITU-R Study Group 1

Scope of Study Group 1 (relevant to this workshop):

- Development of principles and techniques for effective spectrum management,
- Sharing criteria and methods,
- Techniques for spectrum monitoring and long-term strategies for spectrum utilization and economic approaches to national spectrum management
- Assistance in matters within its competence to developing countries in cooperation with the Telecommunication Development Sector



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Previous and current work programme relevant to this workshop:

- Spectrum sharing and utilisation
- Spectrum measurements
- Broader service definitions
- Spectrum economics
- Convergence
- Technology
- Flexibility



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Spectrum sharing and utilisation

SM.1132: General principles and methods for sharing between radiocommunication services or between radio stations

SM.1046: Definition of spectrum use and efficiency of a radio system

SM.1049: A method of spectrum management to be used for aiding frequency assignment for terrestrial services in border areas



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Spectrum measurements

SM.1447: Monitoring of the radio coverage of land mobile networks to verify compliance with a given licence

Future studies: Role of monitoring in a liberal environment



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Broader service definitions

SM.1265: National alternative allocation methods

SM.1133: Spectrum utilization of broadly defined services

SM.1131: Factors to consider in allocating spectrum on a worldwide basis



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Spectrum economics

SM.2012-1: Economic aspects of spectrum management

SM.1603: Spectrum redeployment as a method of national spectrum management



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Convergence

Question 224/1: Technical convergence with respect to terrestrial fixed, mobile, and broadcasting interactive multimedia applications and the associated regulatory environment

(See WRC-10 Agenda 2.8) “To consider the progress of the ITU-R studies concerning the development and regulatory requirements of terrestrial wireless interactive multimedia applications, in accordance with **Recommendation 722 (WRC-03)** and to take any appropriate action on this subject”.



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Technology

Task Group 1/8 - Compatibility between ultra-wideband devices (UWB) and radiocommunication services

Expected outputs:

- Recommendation on UWB characteristics.
- Recommendation on compatibility methodologies.
- Report on compatibility studies.
- Recommendation on a spectrum management framework for UWB.
- Recommendation on measurement techniques of UWB emissions.



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Flexibility

Resolution 951 (WRC-03): Options to improve the international spectrum regulatory framework

The 2003 World Radiocommunication Conference agreed in a new resolution “that studies be carried out by ITU-R to examine the effectiveness, appropriateness and impact of the Radio Regulations, with respect to the evolution of existing, emerging and future applications, systems and technologies, and to identify options for improvements in the Radio Regulations that address the *considering* and *noting* [in this resolution]”.