



Recommendation ITU-R SM.1896-1
(09/2018)

**Frequency ranges for global or regional
harmonization of short-range devices**

SM Series
Spectrum management



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Foreword

The role of the Radiocommunication Sector is to ensure the rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services, including satellite services, and carry out studies without limit of frequency range on the basis of which Recommendations are adopted.

The regulatory and policy functions of the Radiocommunication Sector are performed by World and Regional Radiocommunication Conferences and Radiocommunication Assemblies supported by Study Groups.

Policy on Intellectual Property Right (IPR)

ITU-R policy on IPR is described in the Common Patent Policy for ITU-T/ITU-R/ISO/IEC referenced in Annex 1 of Resolution ITU-R 1. Forms to be used for the submission of patent statements and licensing declarations by patent holders are available from <http://www.itu.int/ITU-R/go/patents/en> where the Guidelines for Implementation of the Common Patent Policy for ITU-T/ITU-R/ISO/IEC and the ITU-R patent information database can also be found.

Series of ITU-R Recommendations

(Also available online at <http://www.itu.int/publ/R-REC/en>)

Series	Title
BO	Satellite delivery
BR	Recording for production, archival and play-out; film for television
BS	Broadcasting service (sound)
BT	Broadcasting service (television)
F	Fixed service
M	Mobile, radiodetermination, amateur and related satellite services
P	Radiowave propagation
RA	Radio astronomy
RS	Remote sensing systems
S	Fixed-satellite service
SA	Space applications and meteorology
SF	Frequency sharing and coordination between fixed-satellite and fixed service systems
SM	Spectrum management
SNG	Satellite news gathering
TF	Time signals and frequency standards emissions
V	Vocabulary and related subjects

Note: This ITU-R Recommendation was approved in English under the procedure detailed in Resolution ITU-R 1.

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RECOMMENDATION ITU-R SM.1896-1

Frequency ranges for global or regional harmonization of short-range devices

(2011-2018)

Scope

This Recommendation contains frequency ranges to be used as recommended ranges for short-range devices (SRDs) applications requiring operation on a global or regional harmonized basis.

The ITU Radiocommunication Assembly,

considering

- a) that the 2007 Radiocommunication Assembly approved Resolution ITU-R 54 – Studies to achieve harmonization for short-range radiocommunication devices (SRDs);
- b) that there is an increasing demand for and use of SRDs for a wide variety of applications throughout the world;
- c) that SRD applications are deployed in both bands designated for industrial, scientific and medical (ISM) applications and bands not designated for ISM applications;
- d) that SRDs are not ISM applications as defined in No. 1.15 of the Radio Regulations (RR);
- e) that, by their nature, SRDs are being used on a worldwide basis, either as an independent device or as an integral part of other systems, and are often carried and used across national borders;
- f) that, in some frequency bands, specific interference mitigation techniques may facilitate the operation of SRDs;
- g) that some SRDs may employ advanced spectrum access techniques;
- h) that using SRDs with similar technical characteristics, such as interference potential and mitigation techniques, in suitable spectrum with appropriate emission limits could enhance the coexistence of SRDs;
- i) that SRD applications are increasing, which may result in increasing spectrum demands (some examples are UWB, RFID, etc.);
- j) that it may be necessary to use the existing spectrum more efficiently and economically,

further considering

- a) that SRDs may create the potential for harmful interference to radiocommunication services, and some of them can be carried by individuals across national boundaries and,

noting

- a) that Resolution ITU-R 54 states that the ITU-R should continue its studies to enable implementation of advanced technologies for SRDs, thereby in particular focusing on a strategy for the future;
- b) that frequency ranges, power levels and other technical and operating parameters commonly used by SRDs are listed in Report ITU-R SM.2153 – Technical and operating parameters and spectrum use for short-range radiocommunication devices,