



Recommendation ITU-R M.1746-1
(11/2019)

**Harmonized frequency channel plans for
the protection of property using
data communication**

M Series
**Mobile, radiodetermination, amateur
and related satellite services**



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 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 M.1746-1

Harmonized frequency channel plans for the protection of property using data communication

(2006-2019)

Scope

This Recommendation addresses system interoperability and harmonized frequency channel plans for the protection of property using data communication.

Keywords

PPDR

Related ITU Recommendations, Reports

Report ITU-R M.2377 – Radiocommunication objectives and requirements for Public Protection and Disaster Relief

Report ITU-R M.2415 – Spectrum needs for Public Protection and Disaster Relief (PPDR)

The ITU Radiocommunication Assembly,

considering

- a) that technologies exist and are being developed which facilitate, through public protection radiocommunication systems, the protection of property;
- b) that the usefulness of public protection radiocommunication systems for the protection of property have been and continue to be demonstrated using data transmissions;
- c) that a common frequency or a common frequency band may be available within each country;
- d) that countries use a variety of frequency bands, technologies and applications for the protection of property;
- e) that several countries have implemented or are considering implementing protection of property systems;
- f) that many administrations wish to promote interoperability and interworking between systems used for public protection both nationally and for cross-border operations;
- g) that national spectrum planning for public protection radiocommunication systems need to have regard for cooperation and bilateral consultation with other concerned administrations, in order to facilitate greater levels of spectrum harmonization;
- h) that current public protection systems mostly require relatively low communications bandwidth, and may use either narrow-band communication systems supporting voice and low data-rate applications, typically in channel bandwidths of 25 kHz or less, or spread spectrum technology;
- i) that to facilitate system interoperability and/or interworking, it is desirable that systems for the protection of property be developed under an open architecture without releasing sufficient information to allow systems to be easily countered;
- j) that usage of the same frequencies of the same allocation in particular ITU regions will enable administrations to benefit from harmonization while continuing to meet national planning requirements;