

RECOMMENDATION ITU-R M.1746

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

(2006)

Scope

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

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 many administrations wish to promote interoperability and interworking between systems used for public protection both nationally and for cross-border operations;
- d) 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;
- e) 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;
- f) 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;
- g) that a description of such frequency use and radiocommunication systems providing protection of property is given in Annex 1;
- h) 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;
- j) that use of common frequencies within which radiocommunication equipment for the protection of property can operate, compatible technology, mutual cooperation and consultation will ease the radiocommunication system interoperability and/or interworking of protection of property systems,

recognizing

- a) that a common frequency or a common frequency band may be available within each country;
- b) that countries use a variety of frequency bands, technologies and applications for the protection of property;
- c) that several countries have implemented or are considering implementing protection of property systems,

noting

- a) that many administrations use the same frequencies for narrow-band protection of property applications;
- b) that such applications on these frequencies can provide good signal availability over large coverage areas;
- c) that it is desirable to identify frequencies on a regional basis, which will permit spectrum channel harmonization for the protection of property;
- d) that these property protection applications are achieved through data transmissions;
- e) that data transmissions on harmonized spectrum will facilitate interoperability only with compatible technology;
- f) that Report ITU-R M.2033 encourages public protection agencies and organizations to utilize relevant ITU-R Recommendations in planning spectrum use and implementing technology and systems supporting public protection;
- g) that Report ITU-R M.2033 also details the public protection agencies' and organizations' user requirements, including system requirements, security and cost;
- h) that ITU is emphasizing the need for ITU-R efforts on telecommunications for public protection,

recommends

- 1 that administrations should cooperate with other administrations in their region to achieve harmonized frequency channel plans for protection of property systems and/or applications (such as stolen vehicle recovery). Appendix 1 presents some frequency channel plans for the protection of property using data communications;
- 2 that techniques for ensuring interoperability of different systems should also be taken into account.