



**Recommendation ITU-R M.1825**  
**(10/2007)**

**Guidance on technical parameters  
and methodologies for sharing  
studies related to systems in  
the land mobile service**

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



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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                                                                                |
|------------|--------------------------------------------------------------------------------------|
| <b>BO</b>  | Satellite delivery                                                                   |
| <b>BR</b>  | Recording for production, archival and play-out; film for television                 |
| <b>BS</b>  | Broadcasting service (sound)                                                         |
| <b>BT</b>  | Broadcasting service (television)                                                    |
| <b>F</b>   | Fixed service                                                                        |
| <b>M</b>   | <b>Mobile, radiodetermination, amateur and related satellite services</b>            |
| <b>P</b>   | Radiowave propagation                                                                |
| <b>RA</b>  | Radio astronomy                                                                      |
| <b>RS</b>  | Remote sensing systems                                                               |
| <b>S</b>   | Fixed-satellite service                                                              |
| <b>SA</b>  | Space applications and meteorology                                                   |
| <b>SF</b>  | Frequency sharing and coordination between fixed-satellite and fixed service systems |
| <b>SM</b>  | Spectrum management                                                                  |
| <b>SNG</b> | Satellite news gathering                                                             |
| <b>TF</b>  | Time signals and frequency standards emissions                                       |
| <b>V</b>   | 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.1825

**Guidance on technical parameters and methodologies for sharing studies related to systems in the land mobile service**

(Question ITU-R 7/8)

(2007)

**Scope**

This Recommendation gives guidance to perform sharing studies related to systems in the land mobile service. It establishes a list of parameters, that characterize a system to assist in sharing studies, provides information on the methodologies that can be used for sharing analyses involving the land mobile service and describes mitigation techniques that can improve spectrum sharing. It also contains a list of relevant ITU-R Recommendations, Reports and Handbooks.

The ITU Radiocommunication Assembly,

*considering*

- a) that the technical characteristics of systems in the land mobile service can vary;
- b) that there is a potential for the introduction of new types of systems or services in the bands used by the land mobile service;
- c) that representative technical and operational characteristics of systems operating in bands allocated to the land mobile service are required to determine the feasibility of introducing new types of systems;
- d) that procedures and methodologies are needed to analyse compatibility between systems operating in the land mobile service and systems in other services,

*noting*

- a) the list of relevant Recommendations, Reports and Handbooks listed in Annex 3,

*recommends*

- 1 that the list of parameters in Annex 1 should be used as guidance on characteristics of systems in the land mobile service appropriate for use in sharing studies;
- 2 that the methodologies in Annex 2 should be used for sharing studies between systems in the land mobile service (intra-service sharing) and between systems in the land mobile service and systems in other services (inter-service sharing).

**Annex 1****Technical parameters of land mobile systems for sharing studies****1 Introduction**

For any sharing study it is necessary to have the characteristics of the systems that need to share the spectrum. Section 2 provides a list of parameters whose values should be able to characterize a system for the purpose of sharing studies.