

Première édition  
First edition  
2003-10

INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

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**Database on the characteristics  
of radio services**

*Base de données sur les caractéristiques  
des services de radiocommunications*

(<https://standards.iteh.ai>)  
Document Preview

CISPR TR 31:2003

<https://standards.iteh.ai/catalog/standards/iec/39e7610d-89d8-4201-b9a2-f493893bfd8c/cisprtr-31-2003>



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TR CISPR 31:2003(E)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DATABASE ON THE CHARACTERISTICS  
OF RADIO SERVICES**

FOREWORD

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The main task of IEC technical committees is to prepare International Standards. However, a technical committee may propose the publication of a technical report when it has collected data of a different kind from that which is normally published as an International Standard, for example "state of the art".

CISPR 31, which is a technical report, has been prepared by CISPR subcommittee H: Limits for the protection of radio services.

The text of this technical report is based on the following documents:

FDIS	Report on voting
CISPR/H/56/DTR	CISPR/H/66/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

Withdawn

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[CISPR TR 31:2003](https://standards.iteh.ai/standards/iec/69c7610d-89d8-4201-b9a2-f493893bfd8c/cisprtr-31-2003)

<https://standards.iteh.ai/standards/iec/69c7610d-89d8-4201-b9a2-f493893bfd8c/cisprtr-31-2003>

## DATABASE ON THE CHARACTERISTICS OF RADIO SERVICES

### 1 Scope and object

This Technical Report covers the rationale behind the actual database covering the characteristics of radio services. The database is a “living document” in the format of a spreadsheet file in the EMC Zone of the IEC web site (<http://www.iec.ch/zone/emc/>).

The objective of the database is to register those characteristics which are relevant for derivation and specification of limits for disturbance emissions from electric and/or electronic equipment, systems and installations. Committees responsible for generic and/or product emission EMC standards should use this information together with CISPR 23.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CISPR 23:1987, *Determination of limits for industrial, scientific and medical equipment*

### 3 General

The database content is comprised of objective radio system characteristics and subjective information on typical intended usage.

### 4 Outline of database

The explanation of the columns in the spreadsheet is as follows:

Characteristics	Explanation /purpose
Radio system (name)	Identification of the system
Reference document (specification)	Reference to the system specification
Receiving frequency band (MHz)	Frequency band in MHz specified by the band edge frequencies
Field strength to protect or sensitivity	Typically the lowest useable field strength or specified sensitivity in dB( $\mu$ V/m)
Protection ratio R (dB)	Ratio of the minimum useable field strength for the wanted RF signal to the maximum acceptable level of an interfering signal
Receiving antenna gain Gr (dB)	Typical gain in dB in the main lobe of an antenna intended for use with a system
Receiving bandwidth Brec (kHz)	Bandwidth in kHz between “-3 dB” points
Isolation distance d (m)	Typical distance in m between a receiver and a likely source of interference
Systematic isolation Is (dB)	Typical extra isolation in dB because, for example, of typical installation practice
Existing number of units	Estimated number of units (expressed as less than 100, or 100 up to 1 million or >1 million)
Is it fixed or mobile?	Is the typical application mobile or is it fixed? If both then state both