



Radiocommunication Bureau
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Administrative Circular
CAR/213

22 February 2006

To Administrations of Member States of the ITU

Subject: Radiocommunication Study Group 1

- Proposed approval of 7 draft new Recommendations and 4 draft revised Recommendations
- Proposed suppression of 1 Recommendation

At the meeting of ITU-R Study Group 1 (Spectrum Management) held on 24 and 25 October 2005, the Study Group decided to seek adoption of 7 draft new Recommendations and 4 draft revised Recommendations by correspondence, according to § 10.2.3 of Resolution ITU-R 1-4.

As stated in Circular letter 1/LCCE/73, dated 17 November 2005, the consultation period for the Recommendation ended on 24 January 2006.

The Recommendations have now been adopted by Study Group 1 and the approval procedure of Resolution ITU-R 1-4 § 10.4.5 is to be applied, noting the interim procedures recommended by the RAG at its meeting in November 2004*. The titles and summaries of the Recommendations are given in Annex 1.

The reason for the proposed suppression is given in Annex 2.

Having regard to the provisions of § 10.4.5.2 of Resolution ITU-R 1-4, you are requested to inform the Secretariat (brsgd@itu.int) by 22 May 2006 whether your Administration approves or does not approve the draft Recommendations.

A Member State who indicates that the draft Recommendations should not be approved is requested to advise the Secretariat of the reason and to indicate possible changes in order to facilitate further consideration by the Study Group during the study period (§ 10.4.5.5 of Resolution ITU-R 1-4).

After the above-mentioned deadline, the results of this consultation will be notified in an Administrative Circular and arrangements made for the approved Recommendations to be published in accordance with § 10.4.7 of Resolution ITU-R 1-4.

* See Administrative Circular [CA/145](#).

Any ITU member organization aware of a patent held by itself or others which may fully or partly cover elements of the draft Recommendation(s) mentioned in this letter is requested to disclose such information to the Secretariat as soon as possible. The “Statement on Radiocommunication Sector Patent Policy” is contained in Annex 1 of Resolution ITU-R 1-4.

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Director, Radiocommunication Bureau

Annex: Title and summary

Documents attached:

Documents 1/BL/6 – 1/BL/16 on CD-ROM

Distribution:

- Administrations of Member States of the ITU
- Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 1
- ITU-R Associates participating in the work of Radiocommunication Study Group 1

ANNEX 1

Title and summary of the draft Recommendation adopted by Radiocommunication Study Group 1

Draft new Recommendation ITU-R SM.[EML]

1/BL/6

An additional methodology for the evaluation of the effect of interference between radiocommunication networks operating in a shared frequency band

This Recommendation offers an additional methodology for the evaluation of the effect of interference between radiocommunication networks operating in a shared frequency band. It provides the means of calculating energy margin loss (EML) and recommends when it should and should not be used for evaluating interference.

Draft revision of Recommendation ITU-R SM.328-10

1/BL/7

Spectra and bandwidth of emissions

New definitions of x dB bandwidth according to the determination of 0 dB were introduced. It was also proposed that the terms taken from the Radio Regulations be transferred to a new *recognizing* of the Recommendation, separating them from the additional terms introduced in the Recommendation. In addition, a closed form equation to calculate the average possibility of symbol error for coherent PSK signals was added to the Annex 6 of the Recommendation.

Draft new Recommendation ITU-R SM.[Doc. 1/75]

1/BL/8

Limits for unwanted emissions under free-space condition

This Recommendation allows for measurement of radiated emissions, under some circumstances, to determine levels of unwanted emissions

Draft new Recommendation ITU-R SM.[Doc. 1/74]

1/BL/9

Method for measurements of radio noise

This Recommendation provides a frequency-independent technique for the measurement of radio noise, for use in practical applications. The Recommendation was developed to meet administrations needs to accurately measure radio noise, and to allow them to obtain reproducible results through the use of harmonized measurement methods.

Draft new Recommendation ITU-R SM.[UWB.MES]

1/BL/10

Measurement techniques of ultra-wideband transmissions

UWB transmissions may be in the form of a sequence of short duration pulses or may appear as noise-like, which adds to the difficulty of their measurement. This Recommendation describes frequency-domain and time-domain techniques for measuring average and peak power spectral density for UWB transmissions and for all types of UWB signals.

Draft new Recommendation ITU-R SM.[UWB.CHAR]

1/BL/11

Characteristics of ultra-wideband technology

Devices using UWB technology are being developed for various applications such as short-range communications, radar imaging, and vehicular radar. This Recommendation consists of three Annexes: Annex A contains terms, definitions and abbreviations to be used in describing UWB technology and devices using UWB technology. Annex B contains general characteristics of UWB technology. Annex C contains technical and operational characteristics needed for studies relating to the impact of devices using UWB technology on radiocommunication systems.

Draft new Recommendation ITU-R SM.[UWB.FRAME]

1/BL/12

Framework for the introduction of devices using ultra-wideband technology

The framework in this Recommendation contains guiding principles for administrations relevant to the management of devices using UWB technology, examples of possible regulatory implementations, and extracts (provided for information only) of regional or national UWB regulations.

Draft new Recommendation ITU-R SM.[UWB.COMP]

1/BL/13

Impact of devices using ultra-wideband technology on systems operating within radiocommunication services

This Recommendation provides guidance for administrations when developing national UWB rules and consists of two Annexes. Annex 1 provides summaries of results of detailed analytical studies covering the impact of UWB devices on several radiocommunication systems, and laboratory and field test measurements to determine the impact of devices using UWB technology on some radiocommunication services. This Annex also includes a summary of mitigation techniques that can be used in order to reduce the impact of devices using UWB technology on radiocommunication systems. Annex 2 includes deterministic and statistical methodologies to assess the impact of devices using UWB technology on systems operating within radiocommunication services. These methodologies are provided for the determination of the impact of a single device or the impact of multiple devices using UWB technology.

Draft revision of Recommendation ITU-R SM.1541-1

1/BL/14

Unwanted emissions in the out-of-band domain

This revision develops appropriate out-of-band domain emission limits for DRM and ISDB-T transmitters, which may be found in Annex 7 and Annex 6 of this Recommendation respectively. Other changes include the out-of-band domain masks for BSS space stations in Annex 5 and the addition of two recommendations in Annex 4.

Draft revision of Recommendation ITU-R SM.1046-1

1/BL/15

Definition of spectrum use and efficiency of a radio system

This Recommendation serves as a basis for quantitatively determining the spectrum resources used by radiocommunication systems, as well as absolute and relative efficiency, in terms of their use of spectrum resources. This revision provides a new, alternative method for quantifying spectrum utilization efficiency of land mobile, point-to-point and television and audio broadcasting radiocommunication systems.

Draft revision of Recommendation ITU-R SM.1538-1

1/BL/16

Technical and operating parameters and spectrum requirements for short-range radiocommunication devices

This Recommendation provides characteristics and national spectrum management approaches for short-range radiocommunication devices. This revision clarified the definition of short-range devices and updated technical and operating parameters, spectral requirements and national spectrum management approaches for numerous systems and administrations.

ANNEX 2

Proposed suppression of Recommendation ITU-R SM.669-1

This Recommendation has not been revised since 1994. The *considerings* and *recommends* of this Recommendation are no longer valid. The protection ratios based on the current technology can be found in other ITU-R Recommendations.
