# ERC RECOMMENDATION 70-03 (Tromsø 1997 and subsequent amendments)

## RELATING TO THE USE OF SHORT RANGE DEVICES (SRD)

Recommendation adopted by the Frequency Management, Regulatory Affairs and Spectrum Engineering Working Groups

## Version of 31 October 2006.

Please see the Document History at the end of this document for the revision status of individual annexes and appendices.

PLEASE NOTE IMPLEMENTATION STATUS

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#### **FOREWORD**

This Recommendation sets out the general position on common spectrum allocations for Short Range Devices (SRDs) for countries within the CEPT. It is also intended that it can be used as a reference document by the CEPT member countries when preparing their national regulations in order to keep in line with the provisions of the R&TTE Directive.

In using this Recommendation it should be remembered that it represents the most widely accepted position within the CEPT but it should not be assumed that all allocations are available in all countries. An indication of where allocations are not available or where deviations from the CEPT position occur is to be found in Appendix 3.

It should also be remembered that the pattern of radio use is not static. It is continuously evolving to reflect the many changes that are taking place in the radio environment; particularly in the field of technology. Spectrum allocations must reflect these changes and the position set out in this Recommendation is therefore subject to continuous review.

Moreover, many administrations have designated additional frequencies or frequency bands for SRD applications on a national basis that do not conform to the CEPT position set out in this Recommendation.

For these reasons, those wishing to develop or market SRDs based on this Recommendation are advised to contact the relevant national administration to verify that the position set out herein still applies. Any inconsistencies between the national position stated in the implementation table in Appendix 1 of this Recommendation and those national positions stated elsewhere should be brought to the attention of the ERO (Yurdal@ero.dk) in order that these differences may be resolved.

When selecting parameters for new SRDs, which may have inherent safety of human life implications, manufacturers and users should pay particular attention to the potential for interference from other systems operating in the same or adjacent bands. Manufacturers should advice users on the risks of potential interference and its consequences.

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#### INTRODUCTION

CEPT has adopted this Recommendation to deal with Short Range Devices and the European Telecommunications Standards Institute (ETSI) has now developed harmonised standards for the majority of these devices. Other standards or technical specifications will be applicable within the framework of the R&TTE Directive for placing on the market.

The term "Short Range Device" (SRD) is intended to cover the radio transmitters which provide either unidirectional or bi-directional communication and which have low capability of causing interference to other radio equipment. SRDs use either integral, dedicated or external antennas and all modes of modulation can be permitted subject to relevant standards.

This Recommendation describes the spectrum management requirements for SRDs relating to allocated frequency bands, maximum power levels, channel spacing and duty cycle.

For CEPT countries that have implemented the R&TTE Directive, Article 12 (CE-marking) and Article 7.2 on putting into service of radio equipment apply. Article 12 states that "any other marking may be affixed to the equipment provided that the visibility and legibility of the CE-marking is not hereby reduced" and Article. 7.2 states that "member states may restrict the putting into service of radio equipment only for reasons related to the effective and appropriate use of the radio spectrum, avoidance of harmful interference or matters relating to public health."

For Short Range Devices individual licenses are normally not required. Where licenses are required this is stated in the relevant Annex.

The following annexes define the regulatory parameters as well as additional information about harmonised standards, frequency issues and important technical parameters. Other technical parameters are indicated in the relevant standard.

Appendix 2 covers the relevant ERC Decisions and ETSI standards.

For countries having implemented the R&TTE Directive further details can be found on the relevant EC (<a href="http://europa.eu.int/comm/enterprise/rtte/index\_en.htm">http://europa.eu.int/comm/enterprise/rtte/index\_en.htm</a>) and the ERO web sites (<a href="https://europa.eu.int/comm/enterprise/rtte/index\_en.htm">www.ero.dk</a>).

"The European Conference of Postal and Telecommunications Administrations,

#### considering

- a) that SRDs in general operate in shared bands and are not permitted to cause harmful interference to other radio services;
- b) that in general SRDs cannot claim protection from other radio services;
- c) that due to the increasing interest in the use of SRDs for a growing number of applications it is necessary to harmonise frequencies and regulations for these devices;
- d) that there is a need to distinguish between different applications;
- e) that additional applications and associated annexes will be added as necessary;
- f) that for CEPT countries that have implemented the R&TTE Directive article 12 (CE marking) and article 7.2 on putting into service of radio equipment apply,
- g) that equipment marketed before the adoption of this Recommendation marked with the abbreviation CEPT LPD Y according to the abrogated CEPT Recommendation T/R 01-04 should be allowed continuation of free circulation and use
- h) that maintenance of Appendices 2 and 3 and also the related cross-references in the Annexes may be undertaken by the ERO based on information from Administrations,
- i) that information about placing SRD equipment on the market and its use can be obtained by contacting individual administrations, especially with regard to equipment operating in frequencies or frequency bands that may be designated for SRDs by administrations in addition to those covered in this Recommendation;
- j) that SRD equipment normally use either integral or dedicated antennas. In exceptional cases external antennas could be used which will be mentioned in the appropriate annex to this Recommendation;
- k) that for those countries implementing the provisions of this Recommendation, national restrictions in respect of the annexes can be found in Appendix 3;

#### recommends

- that CEPT administrations implement the parameters in accordance with the indications mentioned in the annexes:
- 2) that technical parameter limits should not be exceeded by any function of the equipment;
- 3) that CEPT administrations should allow visitors from other countries to carry and use their equipment temporarily without any further formalities unless there are national restrictions as shown in Appendix 3."

#### Note

Please check the Office web site ( <a href="www.ero.dk">www.ero.dk</a> ) for the up to date position on the implementation of this and other ECC/ERC recommendations.

# Annex 1 Non-specific Short Range Devices

## **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended primarily for Telemetry, Telecommand, Alarms and Data in general and other similar applications. Video applications should only be used above 2.4 GHz.

## Regulatory parameters related to Annex 1

	Frequency Band	Power / Magnetic Field	Duty cycle	Channel spacing	ECC/ERC Decision	Notes
а	6765 - 6795 kHz	42 dBuA/m at 10 m	No Restriction	No spacing		
b	13.553 - 13.567 MHz	42 dBuA/m at 10 m	No Restriction	No spacing		
С	26.957 - 27.283 MHz	42 dBuA/m at 10 m 10 mW e.r.p	No Restriction	No spacing	ERC DEC (01)02	
d	40.660 - 40.700 MHz	10 mW e.r.p.	No Restriction	No spacing	ERC DEC (01)03	
е	138.20 - 138.45 MHz.	10 mW e.r.p.	< 1.0 %	No spacing		
f	433.050 - 434.790 MHz	10 mW e.r.p.	< 10 %	No spacing	ECC DEC (04)02	Audio and voice signals should be avoided in the band 433.05-434.79 MHz
f1	433.050 - 434.790 MHz	1 mW e.r.p. -13 dBm/10 kHz	up to 100%	No spacing	ECC DEC (04)02	Power density limited to -13 dBm/10 kHz for wideband modulation with a bandwidth greater than 250 kHz
						Audio and voice signals should be avoided in the band 433.05-434.79 MHz
f2	434.040-434.790 MHz	10 mW e.r.p.	up to 100%	Up to 25 kHz	ECC DEC (04)02	Audio and voice signals should be avoided in the band 433.05-434.79 MHz
g	863 - 870 MHz (note 3, 4 and 6)	≤ 25 mW e.r.p.	≤ 0.1% or LBT (note 1 and 5)	≤ 100 kHz for 47 or more channels (note 2)		FHSS modulation
		≤ 25 mW e.r.p (note 6) Power density : - 4.5 dBm/100 kHz	≤ 0.1% or LBT (note 1, 5 and 6)	No spacing		DSSS and other wideband modulation other than FHSS
		(note 8) ≤ 25 mW e.r.p.	≤ 0.1% or LBT (note 1 and 5)	≤ 100 kHz, for 1 or more channels (note 2 and 7)		Narrow /wide-band modulation
g1	868.000 - 868.600 MHz (note 4)	≤ 25 mW e.r.p.	≤ 1% or LBT. (note 1)	No spacing, for 1 or more channels (note 2)	ERC DEC (01)04	Narrow / wide-band modulation  No channel spacing, however the whole stated frequency band may be used
g2	868.700 - 869.200 MHz (note 4)	≤ 25 mW e.r.p.	≤ 0.1% or LBT. (note 1)	No spacing, for 1 or more channels (note 2)	ERC DEC (01)04	Narrow / wide-band modulation  No channel spacing, however the whole stated frequency band may be used
g3	869.400 - 869.650 MHz (note 4)	≤ 500 mW e.r.p	≤ 10% or LBT. (note 1)	25 kHz (for 1 or more channels)	ERC DEC (01)04	Narrow / wide-band modulation  The whole stated frequency band may be used as 1 channel for high speed data transmission
g4	869.700 - 870.000 MHz	≤ 5 mW e.r.p.	up to 100%	No spacing (for 1 or more channels)	ERC DEC (01)04	Narrow / wide-band modulation  No channel spacing, however the whole stated frequency band may be used Audio applications excluded Voice applications allowed with LBT together with 1 minute carrier time-out timer
h	2400.0 - 2483.5 MHz	10 mW e.i.r.p.	No Restriction	No spacing		The same same same same same same same sam
i	5725 - 5875 MHz	25 mW e.i.r.p.	No Restriction	No spacing		
j	24.00 - 24.25 GHz	100 mW e.i.r.p.	No Restriction	No spacing		
k	61.0 - 61.5 GHz	100 mW e.i.r.p.	No Restriction	No spacing		
I	122 - 123 GHz	100 mW e.i.r.p.	No Restriction	No spacing		
m	244 - 246 GHz	100 mW e.i.r.p	No Restriction	No spacing		
	1	1	I		I	I .

- Note 1: For single frequency devices the duty cycle limit applies, unless LBT is used.
  - For FHSS, DSSS or AFA devices, the duty cycle applies to the total transmission unless LBT is used.
- Note 2: The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz.
- Note 3: Subbands for alarms are excluded (see ERC/REC 70–03 Annex 7).
- Note 4: Audio and voice applications are excluded.
- Note 5: Duty cycle may be increased to 1% if the band is limited to 865 868 MHz.
- Note 6: For other wide-band modulation than FHSS and DSSS with a bandwidth of 200 kHz to 3 MHz, duty cycle can be increased to 1% if the band is limited to 865-868 MHz and power to ≤10 mW e.r.p.
- Note 7: For other narrow-band modulation with a bandwidth of 50 kHz to 200 kHz, the band is limited to 865.5 867.5 MHz.
- Note 8: The power density can be increased to +6.2 dBm/100 kHz and +0.8 dBm/100 kHz, if the band of operation is limited to 865 –868 MHz and 865-870 MHz respectively.

### **Additional Information**

#### **Harmonised Standards**

EN 300 220 subbands c) to g4)

EN 300 330 subbands a) to c)

EN 300 440 subbands h) i) and j)

#### Technical parameters also referred to in the harmonised standard

Listen before talk (LBT) with a preferred option of adaptive frequency agility (AFA) feature may be used instead of duty cycle. LBT is defined in EN 300 220.

#### Frequency issues

The bands in Annex 1 a - b - c - d f - f1 - f2 - h - i - j - k - 1 and m are also designated for industrial, scientific and medical (ISM) applications as defined in ITU Radio Regulations.

The adjacent frequency band above 870 MHz has been designated for use by the high powered TETRA and other digital land mobile PMR/PAMR systems. Manufacturers should take this into account in the design of equipment and choice of power levels.

## **Annex 2** Devices for Detecting Avalanche Victims

### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for devices for detecting avalanche victims.

## Regulatory parameters related to Annex 2

<b>Frequency Band</b>	Magnetic field	<b>Duty cycle</b>	Channel spacing	ECC/ERC Decs	Notes	
<b>b</b> 457 kHz	7 dBuA/m at 10 m	up to 100%	Continuous wave (CW) - no modulation	ECC DEC (04)01		

## **Additional Information**

## **Harmonised Standards**

EN 300 718

## Frequency issues

No information

## Technical parameters also referred to in the harmonised standard

## Annex 3 Wideband Data Transmission systems

#### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for Wideband Data Transmission Systems and Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) (formerly known as Radio Local Area Networks (RLANs)) within the band 2400-2483.5 MHz and for

Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) within the bands 5150-5250 MHz, 5250-5350 MHz, 5470-5725 MHz and 17.1-17.3 GHz.

### Regulatory parameters related to Annex 3

Frequency Band		Power	<b>Duty cycle</b>	Channel spacing	ECC/ERC Decs	Notes
 a	2400.0-2483.5 MHz	100 mW e.i.r.p.	No Restriction	No spacing	ERC/DEC/(01)07	For wide band modulations other then FHSS (e.g. DSSS, OFDM,), the maximum e.i.r.p. density is limited to 10 mW/1 MHz
b	5150 -5250 MHz	200 mW Max mean	No Restriction		ECC/DEC/(04)08	Restricted to indoor use. The maximum mean e.i.r.p. density shall be limited to 0.25 mW/25 kHz in any 25 kHz band.
c	5250 – 5350 MHz	200 mW Max mean	No Restriction		ECC/DEC/(04)08	Restricted to indoor use. The maximum mean e.i.r.p. density shall be limited to 10 mW/MHz in any 1 MHz band.
d	5470 – 5725 MHz	1 W Max mean	No Restriction		ECC/DEC/(04)08	Indoor as well as outdoor use allowed. The maximum mean e.i.r.p. density shall be restricted to 50 mW/MHz in any 1 MHz band.
e	17.1 - 17.3 GHz	100 mW e.i.r.p.	No Restriction	No spacing		

### **Additional Information**

### **Harmonised Standards**

EN 300 328 subband a) EN 301 893 subbands b), c) and d)

subband e): t.b.d.

#### Frequency issues

Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) within the bands 5250-5350 MHz and 5470-5725 MHz shall only be allowed to operate when the mandatory features required in the ECC Decision (04)08 are implemented.

## Technical parameters also referred to in the harmonised standard

The power level for band b, c and d refers to Maximum mean e.i.r.p. The mean e.i.r.p. refers to the highest power level of the transmitter power control range during the transmission burst if transmitter power control is implemented.

### Annex 4 Railway applications

### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for applications specifically intended for use on railways including automatic vehicle identification and balise (train control systems).

The subbands below are intended for the following applications:

- Automatic Vehicle Identification for Railways (AVI) band a)
- Eurobalise band b)
- Euroloop band c).

### Regulatory parameters related to Annex 4

F	requency Band	Power / Magnetic field	<b>Duty cycle</b>	<b>Channel spacing</b>	ECC/ERC Decs	Notes
a	2446 - 2454 MHz	500 mW e.i.r.p.	No Restriction			Transmitting only in presence of trains. 5 channels, each 1.5 MHz wide within the band 2446-2454 MHz
b	27.095 MHz	42 dBuA/m at 10 m		No spacing		
c	4515 kHz	7 dBuA/m at 10 m	No Restriction	No spacing		Transmitting only on receipt of a Eurobalise telepowering signal from a train

## Additional Information

### **Harmonised Standards**

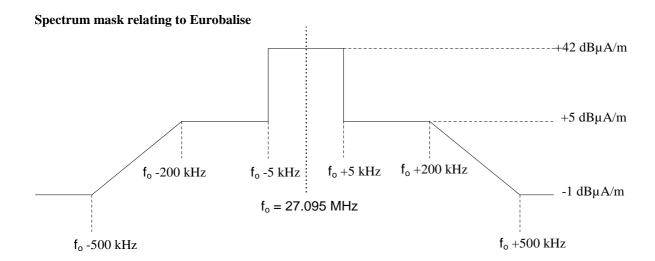
EN 300 761 subband a) EN 300 330 subbands b) and c)

### Frequency issues

No information

# Technical parameters also referred to in the harmonised standard

The maximum allowed H-field for the Eurobalise system is illustrated in Figure 1 and for Euroloop in Figure 2 on the next page.



 $Figure \ 1 \\ Magnetic \ fields \ limits \ at \ 10 \ metre \ measurement \ distance \ for \ the \ Eurobalise \ system$ 

# Spectrum mask relating to Euroloop

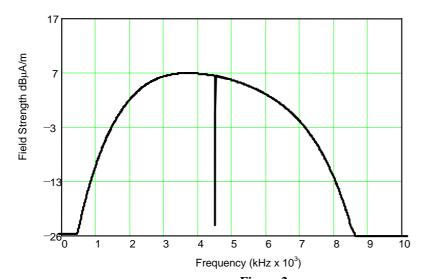


Figure 2
Magnetic field limits at 10 metres measurement distance in 10 kHz measurement bandwidth for the Euroloop up-link transmission

### Annex 5 Road Transport and Traffic Telematics (RTTT)

#### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for Road Transport and Traffic Telematics (RTTT).

### Regulatory parameters related to Annex 5

F	requency Band	Powe	r	<b>Duty cycle</b>	Channel spacing	ECC/ERC Decs	Notes
a	5795 - 5805 MHz	2 W 8 W	e.i.r.p. e.i.r.p.	No Restriction		ECC DEC (02)01	
b	5805 - 5815 MHz	2 W 8 W	e.i.r.p. e.i.r.p.	No Restriction		ECC DEC (02)01	Individual license required
c	63 - 64 GHz				No spacing	ECC DEC (02)01	Vehicle to vehicle and road to vehicle systems. Power level to be determined
d	76 - 77 GHz	55 dBn	n peak	No Restriction	No spacing	ECC DEC (02)01	Power level 55 dBm peak power e.i.r.p 50 dBm average power - 23.5 dBm average power for puls radar only.
							Vehicle and infrastructure radar systems

#### **Additional Information**

### **Harmonised Standards**

EN 300 674 subbands a) and b)
EN 301 091 subband d)
ES 200 674 subbands a) and b)

## Frequency issues

The frequency band a) is intended for road to vehicle systems, particularly (but not exclusively) road toll systems.

The frequency band a) and b) are recommended for 5 MHz channel spacing systems with the frequencies: 5797.5 MHz, 5802.5 MHz, 5807.5 MHz and

5812.5 MHz. For 10 MHz channel spacing systems 5800 MHz and 5810 MHz.

5805 - 5815 MHz on a national basis for multi-lane road junctions, particularly, but not exclusively road toll systems.

The use of 8 W e.i.r.p. allows for 1 Mbit/s in accordance with ETSI standard ES 200 674-1.

2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s uplink in accordance with EN 300 674-1 and for low data rates (31 kbit/s) in accordance with

EN 300 674-2.

#### Technical parameters also referred to in the harmonised standard

## Annex 6 Equipment for Detecting Movement and Alert

## **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for Equipment for Detecting Movement and Equipment for Alert.

## Regulatory parameters related to Annex 6

F	requency Band	Power	<b>Duty cycle</b>	Channel spacing	ECC/ERC Decs	Notes
a	2400.0 - 2483.5 MHz	25 mW e.i.r.p.	No Restriction	No spacing	ERC DEC (01)08	
b	9200 - 9500 MHz	25 mW e.i.r.p.	No Restriction	No spacing		
c	9500 - 9975 MHz	25 mW e.i.r.p.	No Restriction	No spacing		
d	10.5 - 10.6 GHz	500 mW e.i.r.p.	No Restriction	No spacing		
e	13.4 - 14.0 GHz	25 mW e.i.r.p.	No Restriction	No spacing		
f	24.05 - 24.25 GHz	100 mW e.i.r.p.	No Restriction	No spacing		

## **Additional Information**

## **Harmonised Standards**

EN 300 440

### Frequency issues

Some countries may allow equipment with transmitter powers between 25 mW and 500 mW in which case an individual licence or a general licence may be required.

### Technical parameters also referred to in the harmonised standard

#### Annex 7 Alarms

## **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended exclusively for alarm systems including social alarms and alarms for security and safety.

The subbands below are intended for the following applications:

- Alarms in general band a), b),c) and e)
- Social Alarms band d), f) and g)

## Regulatory parameters related to Annex 7

Frequency Band	Power	<b>Duty cycle</b>	Channel spacing	<b>ECC/ERC Decs</b>	Notes
a 868.6 - 868.7 MHz	10 mW e.r.p	. < 1.0 %	25 kHz	ERC DEC (01)09	The whole frequency band may also be used as 1 channel for high speed data transmissions
<b>b</b> 869.250 - 869.300 MHz	10 mW e.r.p	. < 0.1 %	25 kHz	ERC DEC (01)09	
c 869.650 - 869.700 MHz	25 mW e.r.p	. < 10 %	25 kHz	ERC DEC (01)09	
<b>d</b> 869.200 - 869.250 MHz	10 mW e.r.p	. < 0.1 %	25 kHz		Social Alarms
e 869.300 – 869.400 MHz	10 mW e.r.p	< 1.0 %	25 kHz		
f 169.4750 – 169.4875 MHz	10 mW e.r.p	< 0.1 %	12.5 kHz	ECC DEC (05)02	Social Alarms (exclusive use)
g 169.5875 – 169.6000 MHz	10 mW e.r.p	. < 0.1 %	12.5 kHz	ECC DEC (05)02	Social Alarms (exclusive use)

## **Additional Information**

#### **Harmonised Standards**

EN 300 220

### Frequency issues

No information

Technical parameters also referred to in the harmonised standard

### Annex 8 Model Control

## **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for the application of model control equipment, which is solely for the purpose of controlling the movement of the model, in the air, on land or over or under the water surface. Although the bands are not harmonised, the parameters given in the table are common in a majority of CEPT countries. It should be noted that the bands are not exclusive for this type of application.

## Regulatory parameters related to Annex 8

F	requency Band	Power	<b>Duty cycle</b>	Channel spacing	ECC/ERC Decs	Notes
a	26.995, 27.045, 27.095, 27.145, 27.195 MHz	100 mW e.r.p.	No Restriction	10 kHz	ERC DEC (01)10	
b	34.995 - 35.225 MHz	100 mW e.r.p.	No Restriction	10 kHz	ERC DEC (01)11	Only for flying models
c	40.665, 40.675, 40.685, 40.695 MHz	100 mW e.r.p.	No Restriction	10 kHz	ERC DEC (01)12	

### **Additional Information**

### **Harmonised Standards**

EN 300 220

#### **Frequency issues**

No information

### Technical parameters also referred to in the harmonised standard

### **Annex 9 Inductive applications**

#### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for inductive applications include for example car immobilisers, animal identification, alarm systems, cable detection, waste management, personal identification, wireless voice links, access control, proximity sensors, antitheft systems including RF anti-theft induction systems, data transfer to handheld devices, automatic article identification, wireless control systems and automatic road tolling. It should be noted that other types of anti-theft systems can be operated in accordance with other relevant annexes.

#### Regulatory parameters related to Annex 9

Frequency Band	Magnetic field	<b>Duty cycle</b>	Channel spacing	ECC/ERC Decs	Notes
aa 9 - 59.750 kHz	72 dBuA/m at 10 m	No Restriction	No spacing	ERC DEC (01)13	In case of external antennas only loop coil antennas may be employed. Field strength level descending 3 dB/oct at 30 kHz
<b>ab</b> 59.750 - 60.250 kHz	42 dBuA/m at 10 m	No Restriction	No spacing	ERC DEC (01)13	In case of external antennas only loop coil antennas may be employed
<b>ac</b> 60.250 - 70.000 kHz	69 dBuA/m at 10 m	No Restriction	No spacing	ERC DEC (01)13	In case of external antennas only loop coil antennas may be employed. Field strength level descending 3 dB/oct at 30 kHz
<b>b</b> 70 - 119 kHz	42 dBuA/m at 10 m	No Restriction	No spacing	ERC DEC (01)13	In case of external antennas only loop coil antennas may be employed
<b>c</b> 119 - 135 kHz	66 dBuA/m at 10 m	No Restriction	No spacing	ERC DEC (01)13	In case of external antennas only loop coil antennas may be employed. Field strength level descending 3 dB/oct at 30 kHz
<b>c1</b> 135 - 140 kHz	42 dBuA/m at 10 m	No Restriction	No spacing		In case of external antennas only loop coil antennas may be employed
<b>c2</b> 140 - 148.5 kHz	37.7 dBuA/m at 10 m	No Restriction	No spacing		In case of external antennas only loop coil antennas may be employed
<b>d</b> 6765 - 6795 kHz	42 dBuA/m at 10 m	No Restriction	No spacing		
e 7400 - 8800 kHz	9 dBuA/m at 10 m	No Restriction	No spacing	ERC DEC (01)15	
<b>f</b> 13.553 - 13.567 MHz	42 dBuA/m at 10 m	No Restriction	No spacing		
<b>f1</b> 13.553 - 13.567 MHz	60 dBuA/m at 10 m	No Restriction	No spacing		For RFID and EAS only
g 26.957 - 27.283 MHz	42 dBuA/m at 10 m	No Restriction	No spacing	ERC DEC (01)16	
<b>h</b> 10.200 - 11.000 MHz	9 dBuA/m at 10 m	No Restriction	No spacing		
<b>k</b> 3155 - 3400 kHz	13.5 dBuA/m at 10 m	No Restriction	No spacing		In case of external antennas only loop coil antennas may be employed
<b>11</b> 148.5 kHz - 5 MHz	-15 dBuA/m at 10 m	No Restriction	No spacing		In case of external antennas only loop coil antennas may be employed
					The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBµA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-15 dBµA/m in a bandwidth of 10 kHz).
<b>12</b> 5 - 30 MHz	-20 dBuA/m at 10 m	No Restriction	No spacing		In case of external antennas only loop coil antennas may be employed.
					The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBµA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-20 dBµA/m in a bandwidth of 10 kHz).
<b>13</b> 400 - 600 kHz	-8 dBuA/m at 10 m	No Restriction	No spacing		For RFID only
					In case of external antennas only loop coil
					antennas may be employed.

The maximum field strength is specified in a bandwidth of 10 kHz.

The maximum allowed total field strength is -5dBµA/m at 10 m for systems operating at bandwidths larger than 10 kHz measured at the center frequency whilst keeping the density limit (-8dBµA/m in a bandwidth of 10 kHz).

These systems should operate with a minimum operating bandwidth of 30 kHz.

## **Additional Information**

#### **Harmonised Standards**

EN 300 330

#### Frequency issues

Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.

In case of loop antennas used within bands aa) and ac) integral or dedicated within an area between 0.05 m2 and 0.16 m2, the field strength is reduced by 10 \* log (area/0.16 m2); for an antenna area less than 0.05 m2 the field strength is reduced by 10 dB

Particular attention should also be paid to the more stringent protection requirements identified by the ITU for global distress and safety communications frequencies in the same or adjacent bands.

#### Technical parameters also referred to in the harmonised standard

The maximum allowed H-field for bands aa), ab), ac), b) and c) is illustrated in Figure 1;

The maximum allowed H-field limits for bands  $c,\,c1)$  and c2) are illustrated in Figure 2;

The maximum allowed H-field limits for bands d), f) and f1) are illustrated in Figure 3 on the next pages.

## The maximum allowed H-field limits for bands a,b and c are illustrated in Figure 1

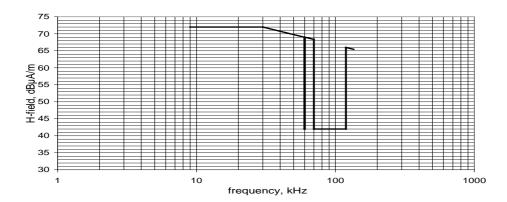
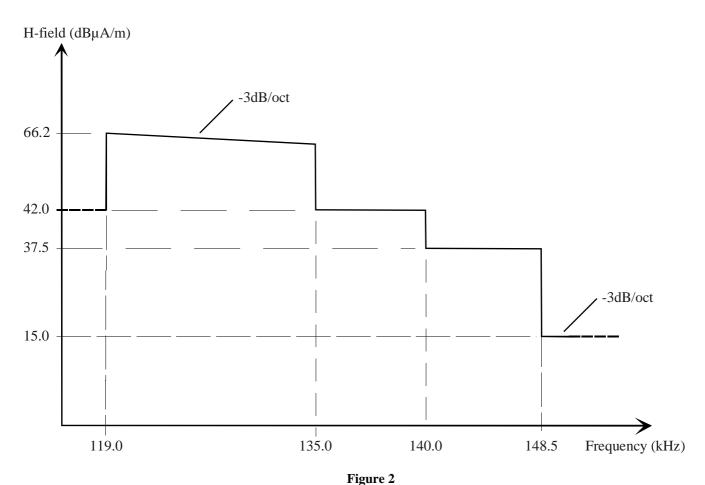


Figure 1
9-135 kHz magnetic field strength limits overview at 10-metre measurement distance

## The maximum allowed H-field limits for band c1 and c2 are illustrated in Figure 2



135 – 148.5 kHz magnetic field strength limit at 10 metres measurement distance

## ISM bands d), f) and f1)

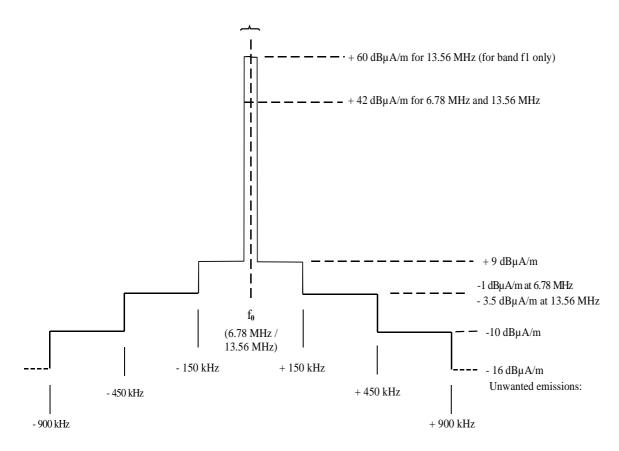


Figure 3

 $6.78~\mathrm{MHz}$  and  $13.56~\mathrm{MHz}$  magnetic field strength limit at  $10~\mathrm{metres}$  measurement distance

### Annex 10 Radio microphones and Assistive Listening Devices

#### **Scope of Annex**

This This annex covers frequency bands and regulatory as well as informative parameters recommended for radio microphones (also referred to as wireless microphones or cordless microphones) and assistive listening devices including aids for the hearing impaired. Radio microphones are small, low power (50 mW or less) transmitters designed to be worn on the body, or hand held, for the transmission of close, personal sound. The receivers are more tailored to specific uses and may range from small and portable to rack mounted modules as part of a multichannel system. This annex covers professional and consumer radio microphones, both hand-held and body-worn, and aids for the handicapped.

Because of the difficulty in determining harmonized frequency bands for radio microphones, frequency band limits should be regarded as tuning ranges within which a device can be designated to operate. In most cases, Appendix 3 indicates those parts of the range that are not available in individual countries but this does not apply to the broadcasting bands at 174-216 MHz and 470-862 MHz where national geographical restrictions are likely to exist and the national administration should be contacted.

The sub bands below are intended for the following applications:

- Narrow band audio band a)
- Aids for the hearing impaired bands b), h1), h2), i)
- Radio microphones bands c) g)

### Regulatory parameters related to Annex 10

Frequency Band	Power	<b>Duty cycle</b>	Channel spacing	<b>ERC Decision</b>	Notes
a 29.7 - 47.0 MHz	10 mW e.r.p.	up to 100%	50 kHz		On a tuning range basis The frequency bands 30.3-30.5 MHz, 32.15- 32.45 MHz and 41.015-47.00 MHz are harmonized military bands
<b>b</b> 173.965 - 174.015 MHz	2 mW e.r.p.	up to 100%	50 kHz		Aids for the hearing impaired
c 863 - 865 MHz	10 mW e.r.p.	up to 100%	No spacing		
<b>d</b> 174 - 216 MHz	50 mW e.r.p.	up to 100%	No spacing		On a tuning range basis Individual license required
e 470 - 862 MHz	50 mW e.r.p.	up to 100%	No spacing		On a tuning range basis Individual license required
<b>f</b> 1785 - 1795 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.		No spacing		Individual license required 50 mW restricted to body worn microphones
g 1795 - 1800 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	up to 100%	No spacing		50 mW restricted to body worn equipment
<b>h1</b> 169.4000 - 169.4750 MHz	10 mW e.r.p.	up to 100%	Max 50 kHz	ECC/DEC/(05)02	Aids for the hearing impaired
<b>h2</b> 169.4875 - 169.5875 MHz	10 mW e.r.p.	up to 100%	Max 50 kHz	ECC/DEC/(05)02	Aids for the hearing impaired
i 169.4 - 174.0 MHz	10 mW e.r.p.	up to 100%	Max 50 kHz		Aids for the hearing impaired On a tuning range basis Administrations should consider channel plan for band 169.4 – 169.8125 MHz detailed in ECC/DEC/(05)02 and the risk of interference towards systems operated in the band 169.6 – 169.8125 band when developing their national frequency table

### **Additional Information**

### **Harmonised Standards**

EN 300 422 sub bands a) - g), h1), h2), i)

EN 301 840 sub band f) -g) EN 301 357 Sub band c)

### Frequency Issues.

Band h1 is in shared spectrum, band h2 is in exclusive spectrum.

#### Technical parameters also referred to in the harmonised standard

### Annex 11 Radio frequency identification applications

#### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for radio frequency identification (RFID) applications including for example automatic article identification, asset tracking, alarm systems, waste management, personal identification, access control, proximity sensors, anti-theft systems, location systems, data transfer to handheld devices and wireless control systems. It should be noted that other types of RFID systems can be operated in accordance with other relevant annexes.

#### Regulatory parameters related to Annex 11

Frequency Band	Power	<b>Duty cycle</b>	Channel spacing	ERC/ECC Decision	Notes
<b>a</b> 2446 - 2454 MHz	500 mW e.i.r.p. 4 W e.i.r.p.	up to 100% ≤ 15 %	No spacing		Power levels above 500 mW are restricted to use inside the boundaries of a building and the duty cycle of all transmissions shall in this case be ≤15 % in any 200 ms period (30 ms on /170 ms off)
<b>b1</b> 865 - 868 MHz	100 mW e.r.p.	LBT	200 kHz		Listen before talk (LBT) shall be used, preferably with the option of frequency agility
<b>b2</b> 865.6 - 867.6 MHz	2 W e.r.p.	LBT	200 kHz		Listen before talk (LBT) shall be used, preferably with the option of frequency agility
<b>b3</b> 865.6 – 868.0 MHz	500 mW e.r.p.	LBT	200 kHz		Listen before talk (LBT) shall be used, preferably with the option of frequency agility

#### **Additional Information**

#### **Harmonised Standards**

EN 300 440 Subband a)

EN 302 208 Subbands b1), b2) and b3)

#### **Frequency issues**

Subband a)

To assist enforcement authorities any emissions due to the RFID device when measured outside of the building at a distance of 10 metres shall not exceed the equivalent field strength for a 500 mW RFID device mounted outside the building when measured at the same distance. Where a building consists of a number of premises, such as shops within a shopping arcade or Mall then the measurements shall be referenced to the boundary of the user's premises within the building.

Frequency Hopping Spread Spectrum (FHSS) techniques should be used as means of mitigation when more than 500 mW e.i.r.p. is used.

Subbands b1), b2) and b3)

Channel centre frequencies are 864.9~MHz + (0.2~MHz \* channel number).

The available channel numbers for each subband are:

b1: channel numbers 1 to 15 b2: channel numbers 4 to 13 b3: channel numbers 4 to 15.

Frequency hopping or other spread spectrum techniques shall not be used.

#### Technical parameters also referred to in the harmonised standard

Subband a)

As mentioned in the standard EN 300 440 the antenna shall have <= +/- 45 degrees horizontal beamwidth and >=15 dB sidelobe attenuation

In addition, for an RFID device which can exceed 500 mW, the device should be fitted with an automatic power control to reduce the radiated power below 500 mW; this automatic power control shall guarantee the reduction of the power to a maximum of 500 mW in cases where the device is moved and used outside the boundary of the user's building or premises as described above.

Subbands b1), b2) and b3)

As mentioned in the standard EN 302 208 the antenna shall have <= +/- 45 and +/- 35 degrees horizontal beamwidth for a radiated power of 100-500 mW and 500 mW - 2 W respectively.

## **Annex 12** Wireless applications in Healthcare

### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for wireless applications in healthcare.

## Regulatory parameters related to Annex 12

Frequency Band	Power	Duty cycle	Channel spacing	ECC/ERC Decision	Notes
<b>a</b> 402 - 405 MHz	25 μW e.r.p.	No Restriction	25 kHz	ERC/DEC/(01)17	The application is for Ultra Low Power Active Medical Implants (for convenient definitions see EC Directive 90/385/ECC)
					Individual transmitters may combine adjacent channels for increased bandwidth up to 300 kHz
<b>b</b> 9 - 315 kHz	30 dBμA/m at 10 m	< 10 %	No spacing		The application is for <b>Ultra</b> Low Power Active Medical Implant systems using inductive loop techniques for telemetry purposes
c 315 - 600 kHz	-5 dBµA/m at 10 m	< 10 %	No spacing		The application is for animal implantable devices.
<b>d</b> 30.0 – 37.5 MHz	1 mW e.r.p.	< 10 %	No spacing		The application is for Ultra Low Power medical membrane implants for blood pressure measurements
e 12.5 – 20 MHz	-7 dBμA/m at 10m	< 10 %	No spacing		The application is for ULP active animal implantable devices (ULP-AIP), limited to indoor only applications.
					The maximum field strength is specified in a bandwidth of 10 kHz.
					The transmission mask of ULP-AID is defined as follows:
					3dB bandwidth 300 kHz
					10dB bandwidth 800 kHz
					20dB bandwidth 2 MHz.

# Additional Information

## **Harmonised Standards**

EN 301 839 Subband a)
EN 302 195 Subband b)
EN 300 330 Subband c) and e)
EN 300 220 Subband d)

## Frequency issues

### Technical parameters also referred to in the harmonised standard

### **Annex 13** Wireless Audio Applications

### **Scope of Annex**

This annex covers frequency bands and regulatory as well as informative parameters recommended for applications for wireless audio systems including the following, cordless loudspeakers; cordless headphones; cordless headphones for portable use, for example portable CD, cassette or radio devices carried on a person; cordless headphones for use in a vehicle, for example for use with a radio or mobile telephone etc; in-ear monitoring, for use with concerts or other stage productions.

### Regulatory parameters related to Annex 13

Fre	equency Band	Power	Duty cycle	Channel spacing	ECC/ERC Decision	Notes
a	863 - 865 MHz	10 mW e.r.p.	Up to 100%	No spacing	ERC DEC (01)18	
b	864.8 – 865.0 MHz	10 mW e.r.p.	Up to 100%	50 kHz		Narrow band analogue voice devices
С	1795 - 1800 MHz	20 mW e.i.r.p.	Up to 100%	No spacing		
d	87.5 – 108.0 MHz	50 nW e.r.p.	Up to 100%	200 kHz		

### **Additional Information**

#### **Harmonised Standards**

EN 301 357 subband a) c) and d)

EN 300 220 subband b)

### Frequency issues

Narrow band analogue voice devices, such as baby voice monitors, door entry systems etc should only use the band b) 864.8-865

#### Technical parameters also referred to in the harmonised standard

Systems should be designed so that when not in use there should be no transmission of an RF carrier.

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Annexes to ERC REC 70-03	A	AUTE	BEL	DNK	E FIN			-							POR	SUI	S UF		Z CYP								SVK	ВІН	BUL	HRV	MKD	ROU	SCGT	UR 🥫
Annex 1 - Non-Specific SRDs	_												ounti									EU m												
Annex 1A 6765-6795 kHz		Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y L	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Annex 1B 13.553-13.567 MHz		Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y L	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	(0.)0_	Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	L	Y	Y	Y	Y	Y L	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y :
Annex 1D 40.660-40.700 MHz ERC/I	DEC(01)03	Y	Y	Y	Y Y	ΥY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y :
Annex 1E 138.20-138.45 MHz		Y	N	Y	N Y	N N	I N	Y	N	N	N	Y	N	Y	N	N	N U	Y	Y	Y	N	Y	N	Y	N	N	N	Y	P	N	Y	N	Y	N
Annex 1F 433.050-434.790 MHz		Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y :
Annex 1F1 433.050-434.790 MHz ECC/	/DEC(04)02	Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	N	Y	Y
Annex 1F2 434.040-434.790 MHz		Y	Y	Y	Y Y	YY	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	N	Y	Y
Annex 1G 863-870 MHz		N	N	Y	N Y	N	N	Y	N	P	Y	N	N	N	Y	Y	N N	N	N	U	Y	N	N	Y	U	N	U	Y	N	N	N	N	N	P
Annex 1G1 868.000-868.600 MHz	/DEC(04)04	Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	N	Y	Y :
Annex 1G2 868.700-869.200 MHz \int ERC	/DEC(01)04	Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	N	Y	Y :
Annex 1G3 869.400-869.650 MHz	/DEO(04)04	Y	Y	Y	Y Y	Y	Y	Y	L	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	N	Y	Y :
Annex 1G4 869.700-870.000 MHz	/DEC(01)04	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	N	Y	Y :
Annex 1H 2400.0-2483.5 MHz		Y	Y	Y	YY	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y :
Annex 1I 5725-5875 MHz		Y	Y	Y	YY	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Annex 1J 24.00-24.25 GHz		Y	Y	Y	N Y	LY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y L	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	Y	Y	N	Y	Y
Annex 1K 61.0-61.5 GHz		Y	Y	Y	N Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N U	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	L	Y	N	Y	Y
Annex 1L 122-123 GHz		Y	Y	Y	N Y	N	Y	Y	Y	P	Y	Y	Y	Y	Y	Y	N U	N	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	L	Y	N	N	Y
Annex 1M 244-246 GHz ERC/E	DEC(01)03	Y	Y	Y	N Y	N	Y	Y	Y	P	Y	Y	Y	Y	Y	Y	N U	N	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	L	Y	N	N	Y
Annex 2 - Devices for Detecting Avalance	che Victims																																	
Annex 2B 457 kHz ECC/E	DEC(04)01	Y	Y	Y	Y Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Annex 3 - Wideband Data Transmission	Systems																																	
Annex 3A 2400.0-2483.5 MHz ERC/I	DEC(01)07	Y	Y	Y	Y Y	LY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	Y	N	Y	Y :
Annex 3B 5150-5250 MHz		Y	Y	Y	Y Y	LY	Y	Y	Y	Y	Y	L	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	N	Y	N	Y	Y
Annex 3C 5250-5350 MHz } ECC/[	DEC4)08	Y	Y	Y	Y Y	LY	Y	Y	Y	Y	Y	L	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	N	Y	N	Y	Y
Annex 3D 5470-5725 MHz		Y	Y	Y	ΥΥ	YY	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	Y	N	N	Y	N
Annex 3E 17.1–17.3 GHz		Y	N	Y	P Y	NN	J Y	Y	Y	Y	Y	N	Y	N	Y	Y	N Y	N	Y	Y	P	Y	Y	Y	Y	Y	N	Y	N	L	N	N	Y	N
Annex 4 - Railway Applications																																		
Annex 4A 2446-2454 MHz		Y	Y	Y	N Y	YY	Y	Y	N	Y	Y	Y	Y	L	Y	Y	N Y	Y	N	Y	Y	Y	Y	N	Y	Y	U	Y	P	Y	Y	L	Y	Y
Annex 4B 27.095 MHz						YY						Y	Y	Y	Y	Y	N Y	Y	N	Y	Y	Y	Y	N	Y	Y	Y	Y	P	L	Y	N	Y	Y
Annex 4C 4515 kHz						YY							Y						N		Y	Y	Y	N	Y	Y	Y	Y	P		Y	N		Y
					-			-	-							_		Ť							-	_	_				-			

P=planned

U=under study

N=not implemented

Y=implemented L=limited implementation

Bright highlighted = new bands Highlighted yellow = not implemented

Implementation Status			DNI	KEI	FIN	F D	GRO	CICE	ΞI	IRL	LIE	LUX	HOL	NOR	POR	SUI	s u	K (	Z CYI	EST	HNG	LTU	LVA	MLT	POL	SVN	SVK	він	BUL	HRV	MKD	ROU	SCG T	UR	_
Annex 5 - Road Transport and Traffic Telematics - I	RTTT	7																																	
Annex 5A 5795–5805 MHz	Y	Y	Y	Y	Y	L Y	Y	Y	Y	Y	L	Y	Y	N	L	L	ΥI	_ ·	Y N	Y	Y	Y	Y	L	Y	Y	Y	Y	P	Y	Y	N	Y	Y	
Annex 5B 5805-5815 MHz	Y	Y	Y	Y	Y	N Y	Y	Y	Y	Y	N	Y	Y	N	L	P	ΥI	_ ·	Y N	Y	Y	Y	Y	L	Y	Y	Y	Y	P	L	N	N	Y	Y	
Annex 5C 63-64 GHz	Y	Y	Y	Y	Y	N N	Y	Y	Y	Y	U	Y	Y	N	Y	U	P	7	Y N	Y	Y	Y	Y	Y	N	Y	N	Y	N	L	Y	N	Y	Y	
Annex 5D 76-77 GHz		Y	Y	Y	Y	ΥY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y Y	Ι,	Y N	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	L	Y	N	Y '	Y	
Annex 6 - Equipment for Detecting Movement and A																																			
Annex 6A 2400.0-2483.5 MHz ERC/DEC(01)08	Y	Y	Y	Y	Y	L Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y I		Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y :	Х
Annex 6B 9200-9500 MHz	Y	Y	Y	N	N	N Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y	N I	٠ ا	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	Y	Y	N	N	Y	
Annex 6C 9500-9975 MHz	Y	Y	Y	N	Y	L N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N I	٠ ا	Y Y	Y	Y	Y	N	Y	Y	Y	N	Y	P	Y	Y	N	N '	Y	
Annex 6D 10.5-10.6 GHz	N	Y	Y	L	N	L N	Y	Y	Y	L	Y	N	Y	Y	N	Y	N I	_ 1	N Y	N	L	Y	Y	Y	Y	Y	N	Y	P	L	Y	N	Y	N	
Annex 6E 13.4-14.0 GHz	Y	Y	Y	N	Y	N Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	Y	Y	N	Y	N	
Annex 6F 24.05-24.25 GHz	Y	Y	Y	Y	Y	LY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y I	٠,	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	P	Y	Y	N	Y	Y :	x
Annex 7 - Alarms																																			
Annex 7A 868.6-868.7 MHz	Y	Y	Y	Y	Y	L Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y I	٠ '	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y :	X.
Annex 7B 869.250-869.300 MHz ERC/DEC(01)09	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	ζ ,	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y '	Y	x
Annex 7C 869.650-869.700 MHz J	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	ζ,	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y :	х
Annex 7D 869.200-869.250 MHz	Y	Y	Y	Y	Y	ΥY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	ζ,	Y N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Х
Annex 7E 869.300-869.400 MHz	N	N	Y	N	Y	N N	N	N	N	P	Y	N	Y	N	Y	Y	N Y	7 ]	N N	U	Y	N	N	Y	N	N	Y	Y	N	N	N	N	N	P	
Annex 7F 169.4750-169.4875 MHz ECC/DEC(05)02	N	N	N	N	Y	N N	N	Y	N	U	L	N	N	N	Y	L	N I	? ]	N N	Y	Y	N	N	Y	P	N	Y	Y	N	N	N	N	N I	P	
Annex 7G 169.5875-169.6000 MHz	N	N	N	N	Y	N N	N	N	N	U	Y	N	N	N	N	L	N I	? ]	N N	Y	Y	N	N	Y	P	N	Y	Y	N	N	N	N	N I	P	
Annex 8 - Model Control																																			
Annex 8A 26.995,27.045,27.095, 27 145,27.195 MHz	Y	Y	Y	Y	Y	P Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Annex 8B 34.995-35.225 MHz	2 Y	Y	Y	L	Y	P L	Y	Y	Y	Y	L	Y	Y	L	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	
Annex 8C 40.665,40.675 40.685, 40.695 MHz	Y	Y	Y	Y	Y	ΥY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Annex 9 - Inductive Applications																																			
Annex 9AA 9-59.750 kHz	Y	Y	Y	L	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y	x
Annex 9AB 59.750-60.250 kHz	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y :	x
Annex 9AC 60.250-70.000 kHz > ERC/DEC(01)13	Y	Y	Y	Y	Y	ΥY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y :	x
Annex 9B 70-119 kHz	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y	х
Annex 9C 119-135 kHz	Y	Y	Y	Y	Y	Y L	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y	x
Annex 9C1 135-140 kHz	Y	Y	Y	N	Y	ΥY	N	Y	P	P	Y	Y	Y	N	N	Y	Y	7	Y Y	Y	Y	Y	N	Y	Y	Y	Y	Y	P	Y	Y	N	Y	P	
Annex 9C2 140.0-148.5 kHz	Y	Y	Y	N	Y	ΥΥ	N	Y	P	P	Y	Y	Y	N	N	Y	Y	7	Y Y	Y	Y	Y	N	Y	Y	Y	Y	Y	P	Y	Y	N	Y	P	
Annex 9D 6765-6795 kHz	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	ζ.	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	Y	Y ·	Y	
Annex 9E 7400-8800 kHz ERC/DEC(01)15	Y	Y	Y	Y	Y	ΥΥ	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Υ .	Y	-
Annex 9F 13.553-13.567 MHz	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	ζ.	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	Y	Y	Y	х
Annex 9F1 13.553-13.567 MHz		N								P	P	N	Y	N	Y		Y		YY	Y	Y	U	N	Y	Y	Y	Y	Y	P	N	Y	N	Y		
Annex 9G 26.957-27.283 MHz ERC/DEC(01)16		Y								-	Y	Y	Y	Y	Y		Y		YY	Y	Y	Y	Y	Y	Y	Y	Y	_	Y	L	Y	Y		Y	
Annex 9H 10.200-11.000 MHz													-	-					Y N		Y	U	N	Y	Y	Y	Y			N			N '	Y	
MINICA 711 10.200-11.000 WILL	14	14	1	14	1	. 1	14	1	1	U	1	14	1	14	14	1	14	١.	1 14	1	1	U	14	1	1		1	1	1	14	1	14	14	* I	1

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Bright highligted = new bands

Highlighted yellow = not implemented

Y=implemented L=limited implementation

P=planned U=under study

N=not implemented

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Implementation Status	AUT	BEL	DNK	E F	IN F	D G	RC I	CE I	IRL	LIE	LUX	HOL	NOR	POR	SUI	S U	K C	Z CYP	EST	HNG	LTU	LVA	MLT	POL	SVN	SVK	він	BUL I	HRVN	ИKDБ	ROUS	CGTU	IR
Annex 9 - Inductive Applications - continued																																	
Annex 9K 3155-3400 kHz	Y	Y	Y	N	Y Y	Y	Y	Y F	P	Y	Y	Y	N	N	Y	Y L	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	P	N	Y	N	N Y	7
Annex 9L1 148.5 kHz - 5 MHz			Y		Y								N		L					L							Y					F	<b>,</b>
Annex 9L2 5 - 30 MHz			Y		Y								N		P					P							Y					F	<b>,</b>
Annex 9L3 400-600 kHz			P		Y								N		P					Y							Y					F	•
Annex 10 - Radio Microphones and Assistive Listen	ing D	evice	es .																									_					
Annex 10A 29.7-47.0 MHz	L	Y	Y	L	L L	L '	Y	Y L	P	L	L	Y	L	N	N	L L	L	_ Y	L	L	Y	N	L	Y	Y	L	Y	L	N	Y	N	Y Y	
Annex 10B 173.965-174.015 MHz	N	N	N	N	L N	Y	U	Y	Y	N	Y	Y	L	Y	N	N Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	P	N	Y	N	Y Y	
Annex 10C 863-865 MHz	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y Y	
Annex 10D 174-216 MHz	N	Y	L	L	L L	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	YY	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	P	N	Y	N	Y Y	
Annex 10E 470-862 MHz	Y	Y	L	N	L L	L	Y	Y L	Y	Y	Y	Y	L	Y	Y	Y Y	Y	Y	Y	Y	Y	N	L	Y	Y	Y	Y	P	N	N	N	Y Y	7
Annex 10F 1785-1795 MHz			Y		Y								Y		Y					Y							Y					Y	
Annex 10G 1795-1800 MHz			Y		N								Y		Y					Y							Y					Y	7
Annex 10H1 169.4000-169.4750 MHz			N		L								N		P					Y							Y					F	<b>,</b>
Annex 10H2 169.4875-169.5875 MHz ECC/DEC(05)02			N		Y								N		P					Y							Y					F	, l
Annex 10I 169.4-174.0 MHz			Y		N								N		N					P							Y					N	1
Annex 11 - Radio Frequency Identification Applicati	ions																																
Annex 11A 2446-2454 MHz	Y	Y	Y	N	Y L	Y	Y	Y N	Y	Y	Y	Y	Y	L	Y	N Y	Y	Y	Y	Y	Y	N	Y	Y	Y	U	Y	P	N	Y	N	Y Y	
Annex 11B1 865-868 MHz	Y	N	Y	N	Y Y	Y	N	Y N	P	Y	N	P	N	Y	Y	YY	Y	Y	Y	Y	U	N	Y	Y	P	Y	Y	N	N	Y	N	Y F	•
Annex 11B2 865.6-867.6 MHz	Y	N	Y	N	Y P	Y	N	Y N	P	Y	N	P	N	Y	Y	Y Y	Y	N	Y	Y	U	N	Y	Y	P	Y	Y	N	N	Y	N	Y F	,
Annex 11B3 865.6-868.0 MHz	Y	N	Y	N	Y	Y	N	Y N	P	Y	N			Y	Y	YY	Y	N	Y	Y	U	N	Y	Y	P	Y	Y	N	N	Y	N	Y F	,
Annex 12 - Wireless Applications in Healthcare																																	
Annex 12A 402-405 MHz ERC/DEC(01)17	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y Y	
Annex 12B 9-315 kHz	Y	Y	Y	N	Y Y	Y	Y	Y P	Y	Y	Y	Y	Y	L	Y	N L	. Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	P	N	Y	N	N F	<b>,</b>
Annex 12C 315-600 kHz	N	N	Y	N	Y N	Y	N	Y N	U	Y	N	U	N	Y	Y	YY	Y	N	Y	Y	U	N	Y	Y	P	Y	Y	N	N	Y	N	N F	<b>,</b>
Annex 12D 30.0-37.5 MHz	N	N	Y	N	Y N	Y	N :	N N	U	N	N	N	N	N	N	N Y	N	l N	Y	Y	U	N	Y	Y	P	U	Y	N	N	Y	N	Y F	<b>,</b>
Annex 12E 12.5-20.5 MHz			Y		Y								N		P					P							Y					F	,
Annex 13 - Wireless Audio Applications																																	
Annex 13A 863-865 MHz ERC/DEC(01)18	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y L	. Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	L	Y	N	Y Y	
Annex 13B 864.8-865.0 MHz	Y	Υ	Y	Y	Y Y	Y	N	Y F	Y	Y	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	P	L	Y	N	Y Y	
Annex 13C 1795-1800 MHz	N	N	Y	N	N N	Y	N	Y N	U	Y	N	Y	Y	N	Y	YY	Y	Y	Y	Y	U	N	Y	Y	Y	N	Y	N	N	Y	N	Y F	<b>)</b>
Annex 13D 87.5-108.0 MHz	N	N	Y	N	Y N	Y	N	Y N	N	Y	N	N	N	Y	Y	N N	1 N	l N	Y	P	N	N	N	N	N	U	Y	N	N	N	N	N F	<b>,</b>
Please note abrogated Decision																																	
Annex 3B 5150-5350 MHz	Y	Y	Y	Y	Y L	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	YY	Y	Y	Y	Y	Y	L	Y	Y	Y	Y	l	L	L		N	Y	7
Annex 3C 5470-5725 MHz																		Y							Y	N	I	U	N		N	Y	7

<sup>\*)</sup>Please note: Where class 1 is indicated, the parameters of the annex to Recommendation 70-03 may differ from the parameters of the specific sub-class (Class 1 parameters) relating to that annex. Please refer to <a href="https://www.ero.dk">www.ero.dk</a> for full details of Class 1 sub-classes.

Bright highlighted = new bands

 $\label{eq:Yindex} \mbox{Highlighted yellow = not implemented} \qquad \qquad \mbox{Y=implemented} \qquad \mbox{L=limited implementation}$ 

L=limited implementation P=planned U=under study

N=not implemented

Edition of November 2006

## **APPENDIX 2**

## List of relevant ECC/ERC Decisions, Recommendations and ETSI Standards

## **ECC/ERC Decisions**

ECC/DEC/(05)02	On the use of the frequency band 169.4-169.8125 MHz
ECC/DEC/(04)01	Short Range Devices for detection of Avalanche Victims
ECC/DEC/(04)02	Non-specific Short Range Devices in the band 433.05-434.79 MHz
ECC/DEC(04)08	On the harmonised use of the 5 GHz frequency bands for the implementation of Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)
ERC/DEC/(02)01	On the frequency bands to be designated for the coordinated introduction of Road Transport and Traffic Telematic Systems.
ERC/DEC/(95)01	On the free circulation of radio equipment in CEPT member countries.
ERC/DEC(97)06	On the harmonised frequency band to be designated for Social Alarm Systems.
ERC/DEC(01)01	Non-specific Short Range Devices in 6765-6795 kHz and 13.552-13.567 MHz
ERC/DEC(01)02	Non-specific Short Range Devices in 26.957-27.283 MHz
ERC/DEC(01)03	Non-specific Short Range Devices in 40.660-40.700 MHz
ERC/DEC(01)04	Non-specific Short Range Devices in 868.0-868.6 MHz, 868.7-869.2 MHz, 869.4-869.65 MHz, 869.7-870.0 MHz
ERC/DEC(01)05	Non-specific Short Range Devices in 2400-2483.5 MHz
ERC/DEC(01)06	Non-specific Short Range Devices in 5725-5875 MHz
ERC/DEC(01)07	Radio-LAN Short Range Devices in 2400-2483.5 MHz
ERC/DEC(01)08	Short Range Devices for Movement Detection and Alert in 2400-2483.5 MHz
ERC/DEC(01)09	Short Range Devices for Alarms in 868.6-868.7 MHz, 869.25-869.3 MHz, 869.65-869.7 MHz
ERC/DEC(01)10	Short Range Devices for Model control in 26.995, 27.045, 27.095, 27.145 and 27.195 MHz
ERC/DEC(01)11	Short Range Devices for Flying Model Control in 34.995-35.225 MHz
ERC/DEC(01)12	Short Range Devices for Model Control in 40.665, 40.675, 40.685 and 40.695 MHz
ERC/DEC(01)13	Short Range Devices for Inductive applications in 9-59.750 kHz, $59.750-60.250$ kHz, $60.250-70$ kHz, $70-119$ kHz and $119-135$ kHz
ERC/DEC(01)14	Short Range Devices for Inductive applications in 6765-6795 kHz, 13.553-13.567 MHz
ERC/DEC(01)15	Short Range Devices for Inductive applications in 7400-8800 kHz
ERC/DEC(01)16	Short Range Devices for Inductive applications in 26.957-27.283 MHz
ERC/DEC(01)17	Short Range Devices for Medical Implants in 402-405 MHz
ERC/DEC(01)18	Short Range Devices for Wireless Audio in 863-865 MHz

## **ECC/ERC Reports**

ECC Report 001	Compatibility between inductive LF and HF RFID transponder and other radio communications systems in the frequency ranges 135-148.5 kHz, 4.78-8.78 MHz and 11.56-15.56 MHz
ERC Report 005	ERC Report on frequency bands for Low Power Devices
ECC Report 007	Compatibility between inductive LF RFID systems and radio communications systems in the frequency range 135 - 148.5 kHz
ECC Report 011	Strategic Plans for the future use of the frequency bands 862-870 MHz and 2400-2483.5 MHz for Short Range Devices
ECC Report 012	Ultra Low Power Active Medical Implant systems (ULP-AMI)
ECC Report 013	Adjacent band compatibility between Short Range Devices and TETRA TAPS mobile services at 870 MHz
ECC Report 037	Compatibility of planned SRD applications in 863-870 MHz
[ECC Report 055	Compatibility between existing and proposed SRDs and other radiocommunication applications in the 169.4-169.8 MHz frequency band. See supplementary excel spreadsheets in download]
ERC Report 044	ERC Report on sharing inductive systems and radiocommunication systems in the band 9-135 kHz
ERC Report 047	ERC Report on compatibility fixed services and motion sensors at 10.5 GHz
ERC Report 063	ERC Report on radio microphone applications in the frequency range 1785-1800 MHz
ERC Report 067	Study of the Frequency sharing between HIPERLANs and MSS feeder links in the 5 GHz band
ERC Report 069	ERC Report on propagation model and interference range calculation for inductive systems in 10 kHz – 30 MHz
ERC Report 072	Compatibility studies related to the possible extension band for HIPERLANs at 5 GHz
ERC Report 074	ERC Report on RFID and the radioastronomy services at 13 MHz
ERC Report 092	ERC Report on sharing inductive Short Range Devices and radio communication systems in 10.2-11 MHz
ERC Report 095	ERC Report on the use of 3155-3400 kHz for general inductive applications
ERC Report 096	ERC Report on the use of 290-300 kHz and 500-510 kHz for general inductive applications
ERC Report 098	ERC Report on compatibility of Short Range Devices at 900 MHz with adjacent services
ERC Report 109	Compatibility of Bluetooth with other existing and proposed radiocommunication systems in the 2.45 GHz frequency band

## ETSI Standards including harmonised standards

ETSI standards consist of at least two parts, the last part will normally be harmonised under the R&TTE Directive. Further information can be found at <a href="http://europa.eu.int/comm/enterprise/rtte/harstand.htm">http://europa.eu.int/comm/enterprise/rtte/harstand.htm</a>

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Gen	aric	cton	oh	rde

	Generic standards
EN 300 220	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
EN 300 330	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
EN 300 440	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
	Specific standards
EN 300 328	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.
EN 300 422	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
EN 300 454	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wide band audio links; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
EN 300 674	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Technical characteristics and test methods for Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band
EN 300 718	Electromagnetic compatibility and Radio spectrum matters (ERM); Avalanche Beacons; Transmitter-receiver systems; Part 3: Harmonized EN covering essential requirements of article 3.3e of the R&TTE Directive
EN 300 761	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Automatic Vehicle Identification (AVI) for railways operating in the 2,45 GHz frequency range; Part 2: Harmonized standard covering essential requirements under article 3.2 of the R&TTE Directive
EN 301 091	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Technical characteristics and test methods for radar equipment operating in the 76 GHz to 77 GHz band
EN 301 357	Electromagnetic compatibility and Radio spectrum Matters (ERM); Analogue cordless wideband audio devices using integral antennas operating in the CEPT recommended 863 MHz to 865 MHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
	Electromagnetic compatibility and Radio spectrum Matters (ERM);
EN 301 839	Radio equipment in the frequency range 402 MHz to 405 MHz for Ultra Low Power Active Medical Implants and Accessories; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
EN 301 840	Electromagnetic compatibility and Radio Spectrum Matters (ERM);Digital radio microphones operating in the CEPT Harmonized band 1 785 MHz to 1 800 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
EN 301 893	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
EN 302 208	Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

# Appendix 3 – National Restrictions

Annex	Country	Restriction	Reason/remark
All Annexes	France	France does not recognise the former marking CEPT SRD Aa Y and CEPT RLAN Y recommended by T/R 01-04 and T/R 10-01 respectively. The free circulation and use of products bearing these old markings must then be confined to existing equipments and to countries which have already adopted these markings. The marking CEPT SRD Aa Y proposed by ERC/REC 70-03 will not be recognised in France. In any case in France marking issues are in line with the R&TTE Directive.	
	Germany		Clarification of the terms contained in the table reference to the German Telecommunications Act of 22 June 2004: The use of frequencies or frequency bands for the operation of transmitting equipment requires "frequency assignment". There are two types of frequency assignments: individual frequency assignments are granted upon application and correspond to "individual license required" within the meaning of CEPT/ERC/REC 70-03; general frequency assignments are granted ex officio by administrative act, published in the Federal Network Agency's Official Gazette and correspond to "individual license not required" within the meaning of CEPT/ERC/REC 70-03.
	Lithuania		The radio frequencies may be used without an individual authorization case the relevant radio frequency or radio frequencies band is included in the List of Radio Frequencies/Channels, which may be used without an Individual Authorisation, approved by Order No. 1V-27 of the Director of the Communications Regulatory Authority of 13 March 2003 (Official Gazette Valstybes zinios, Nr.30-1277, 2003 Radio equipment must conform to the requirements of the List.
	Moldova	Telecommunication equipment and cables are imported commercialized only on basis of conformity certificates issued by the Telecommunication Products Certification Body of Moldova and must be marked in Moldova. It is not permitted to utilise non-certificated and non-marked telecommunication equipment and cables. Subject to the above all SRD frequency bands with technical parameters indicated in ERC REC 70-03 are permitted on secondary basis.	In accordance with Law of Telecommunications of Republic of Moldova.
	Russia	In accordance with the current National Frequency Allocation Table, different communication services, including special applications operate in frequency bands designated for SRD applications. All radiocommunication systems require individual license and authorization for using certain radio frequencies, which is granted after conformity assessment procedures. All types of radio equipment requires national approval based on the national standard system (GOST) and issue of conformity certificate. Only equipment with national mark can be placed on the market in Russia.	
	Turkey		The short range and low powered devices under the scope of SRD Ordinance can be used without any need to get the certificate, use permit and frequency registers on condition that they shall meet the determined conditions and be in accordance with the standards and technical specifications accepted by The Authority

Annex	Country	Restriction	Reason/remark_
Annex 1 Band	A Short Range Devices		
6765-6795 kH			
0705-0775 KI	Romania	Secondary basis - individual license	
	United Kingdom	Only inductive devices permitted - see annex 9	The UK has some concern about the antennas used and the distance transmissions could go. The bands are also in Annex 9 where it is clear that they are for inductive systems. We are reviewing this position
Annex 1 Band	В		
Non Specific (	Short Range Devices MHz		
	Romania	Secondary basis - individual license	
	United Kingdom	•	The UK has some concern about the antennas used and the distance transmissions could go. The bands are also in Annex 9 where it is clear that they are for inductive systems. We are reviewing this position
Annex 1 Band	$\boldsymbol{C}$		
	Short Range Devices		
	Luxembourg	Only 26.995, 27.045, 27.095, 27.145 MHz and 27.195 MHz	Not on CB Channels
	Romania	Secondary basis - individual license	D
	United Kingdom	Only 26.995, 27.045, 27.095, 27.145, 27.195 MHz @10 kHz, e.r.p. 1mW	Restriction to protect CB. The UK is reviewing its position on this
Annex 1 Band	D		
	Short Range Devices		
-10.000 -10.700	Finland	Audio and voice allowed	
	Romania	Secondary basis - individual licence	
Annex 1 Band	<b>F</b> .		
	Short Range Devices		
	Belgium	Not implemented	
	Bulgaria	Not implemented	Planned
	Croatia	Not implemented	
	Finland	Audio and voice not allowed	
	France	Not implemented	Exclusive military band
	Germany	Not implemented	Military band
	Greece	Not implemented	Land Mobile service
	Hungary Ireland	Not implemented  Not implemented	Aeronautical mobile applications operate in the band Allocated to Land Mobile
	Italy	Not implemented  Not implemented	Military applications
	Latvia	Not implemented	
	Liechtenstein	Not implemented	
	Poland	Not implemented	Military band
	Portugal	Not implemented	Governmental band
	Romania	Not implemented	Not available
	Slovak Republic	Not implemented	Military services
	Slovenia	Not implemented	Not available
	Spain	Not implemented	
	Sweden	Not implemented	Evalueiva Military band
	Switzerland The Netherlands	Not implemented  Not implemented	Exclusive Military band Exclusive Military band
	Turkey	Not implemented  Not implemented	Military application
	United Kingdom	Not implemented	Not implemented due to lack of demand. Implementation under consideration

# ${\bf Appendix~3-National~Restrictions}$

Annex	Country	Restriction	Reason/remark
Annov 1 Dan J	E		
Annex 1 Band			
-	Short Range Devices		
433.050-434.79	90 MHz		
	Finland	Audio and voice not allowed	
	France	No duty cycle limits	Conformity with ERC REC 70-03 in progress
	Italy	Voice applications allowed	Military banda
	Italy	Limited to 433.05-433.575 MHz for audio signals with 12.5 or 25 kHz channel spacing.	Military bands
		Audio and voice signals not allowed	
	Luxembourg	Audio and voice not allowed	
4 10	1.01		
Annex 1 Band			
	Short Range Devices		
433.050-434.7			
	Croatia	Individual license required	
	Finland	Audio and voice not allowed	Conformity with EDC DEC 70 02 in 11
	France	No duty cycle limits voice applications  Audio and voice not allowed	Conformity with ERC REC 70-03 in progress allowed
	Luxembourg Norway	Not implemented	
	Romania	Not implemented	
	- comunu		
Annex 1 Band	F2		
	Short Range Devices		
434.040-434.7	790 MHz		
	Croatia	Individual license required	
	Finland	Audio and voice signals not allowed	
	France	No duty cycle limits Voice applications	Conformity with ERC REC 70-03 in progress allowed
	Greece	Not implemented	
	Romania	Not implemented	
Annex 1 Band	G		
-	Short Range Devices		
863-870 MHz	<b>Z</b> Austria	Not implemented	
	Austria Belgium	Not implemented  Not implemented	
	Bulgaria	Not implemented Not implemented	
	Croatia	Not implemented	
		Not implemented	
	Cyprus	Not implemented	
	Cyprus Czech Republic	Not implemented  Not implemented	
	Czech Republic	Not implemented	Under consideration
	Czech Republic Estonia	Not implemented 868-870 MHz	Under consideration
	Czech Republic	Not implemented 868-870 MHz Not implemented	Under consideration
	Czech Republic Estonia Finland	Not implemented 868-870 MHz Not implemented Not implemented	Under consideration
	Czech Republic Estonia Finland France	Not implemented 868-870 MHz Not implemented Not implemented Not implemented	Under consideration  Planned
	Czech Republic Estonia Finland France Greece	Not implemented 868-870 MHz Not implemented Not implemented Not implemented Not implemented	
	Czech Republic Estonia Finland France Greece Ireland	Not implemented 868-870 MHz Not implemented	
	Czech Republic Estonia Finland France Greece Ireland Italy	Not implemented 868-870 MHz Not implemented Not implemented Not implemented Not implemented	
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia	Not implemented 868-870 MHz Not implemented	
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania	Not implemented 868-870 MHz Not implemented	
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg	Not implemented 868-870 MHz Not implemented	
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of)	Not implemented 868-870 MHz Not implemented	
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of) Norway	Not implemented 868-870 MHz Not implemented	Planned
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of) Norway Poland	Not implemented 868-870 MHz Not implemented	Planned
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of) Norway Poland Romania	Not implemented 868-870 MHz Not implemented	Planned
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of) Norway Poland Romania Serbia & Montenegro	Not implemented 868-870 MHz Not implemented	Planned Under study
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of) Norway Poland Romania Serbia & Montenegro Slovak Republic	Not implemented 868-870 MHz Not implemented	Planned Under study
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of) Norway Poland Romania Serbia & Montenegro Slovak Republic	Not implemented 868-870 MHz Not implemented	Planned Under study
	Czech Republic Estonia Finland France Greece Ireland Italy Latvia Lithuania Luxembourg Macedonia (FYR of) Norway Poland Romania Serbia & Montenegro Slovak Republic Slovenia Spain	Not implemented 868-870 MHz Not implemented	Planned Under study

Annex	Country	Restriction	Reason/remark_
Annex 1 Band	G1		
Non Specific S	Short Range Devices		
868.000-868.6			
	Finland Romania	Audio and voice not allowed  Not implemented	
Annex 1 Band	G2	•	
Non Specific \$ 868.700-869.2	Short Range Devices 000 MHz		
	Cyprus	Not implemented	
	Finland	Audio and voice not allowed	
	Romania	Not implemented	
Annex 1 Band			
Non Specific \$ 869.400-869.6			
	Finland Italy	Audio and voice not allowed Max 25 mW e.r.p.	Military band
	Romania	Not implemented	
Annex 1 Band			
Non Specific 3 869.700-870.0	Short Range Devices 000 MHz		
	Croatia	Channel spacing 25 kHz or 50 kHz	
	Finland	Audio and voice not allowed	
	Romania	Not implemented	
Annex 1 Band	H		
Non Specific S 2400.0-2483.5	Short Range Devices MHz		
	France	Derogation in French overseas departments of Guyane and La Réunion: outdoor use in band 2400-2420 MHz limited to 2.5 mW e.i.r.p	Military systems
	Norway	Implemented	This subsection does not apply for the geographical area within radius of 20 km from the centre of Ny-Ålesund
	Romania	Scondary basis - individual license	
Annex 1 Band	I		
Non Specific S 5725-5875 MI	Short Range Devices Hz		
	Romania	Secondary basis - individual license	
Annex 1 Band	J		
Non Specific S 24.00-24.25 G	Short Range Devices Hz		
	Bulgaria	Not implemented	Planned
	France	Power limited to 0.1 mW e.i.r.p.in frequency band 24.10 - 24.15 GHz	Military Radiolocation use. Operation by police forces of Radar Speed Meters
	Luxembourg	Limited to 24.05-24.25 GHz	24.0-24.05 for Amateur use only
	Romania	Not implemented	
	Spain	Not implemented	
	United Kingdom	Only 24.150-24.250 GHz	Restriction to protect police speedmeters. UK reviewing its position
Annex 1 Band	K		
Non Specific S	Short Range Devices z		
<del></del>	Bulgaria	Not implemented	Equipment/standards not yet developed
	France	Not implemented	
	Romania	Not implemented	Chandred and and and analysis
	Slovak Republic	Not implemented	Standard not yet available
	Spain Sweden	Not implemented	
	Sweden	Not implemented	

# Appendix 3 – National Restrictions

Annex	Country	Restriction	Reason/remark
	United Kingdom	Not implemented	Not implementation due to lack of demand. Implementation under consideration
Annex 1 Band I	L		
Non Specific S 122-123 GHz	Short Range Devices		
122-125 GHZ	Bulgaria	Not implemented	Equipment/standards not yet developed
	Czech Republic	Not implemented	Other services in the band
	France	Not implemented	
	Ireland	Not implemented	Ready to implement. No specification/equipment available
	Romania	Not implemented	
	Serbia & Montenegro	Not implemented	
	Slovak Republic	Not implemented	Standard not yet available
	Spain	Not implemented	
	Sweden	Not implemented	Under study
	United Kingdom	Not implemented	Not implementation due to lack of demand.
			Implementation under consideration
Annex 1 Band I	M		
Non Specific S 244-246 GHz	Short Range Devices		
2-17-2-TU GIIZ	Bulgaria	Not implemented	Equipment/standards not yet developed
	Czech Republic	Not implemented	Military applications
	France	Not implemented	,,
	Ireland	Not implemented	Ready to implement. No specification/equipment available
	Romania	Not implemented	, , , , , , , , , , , , , , , , , , , ,
	Serbia & Montenegro	Not implemented	
	Slovak Republic	Not implemented	Standard not yet available
	Spain	Not implemented	
	Sweden	Not implemented	Under study
	United Kingdom	Not implemented	Not implementation due to lack of demand.
			Implementation under consideration
Annex 2 Band I	В		
Avalanche Vio	ctims		
457 kHz			
	Latvia	Not implemented	
Annex 3 Band A	4		
	ta Transmission systen	ns	
2400.0-2483.5		1.5	
	Bulgaria		General authorization required for outdoor use and public servic
	France	Outdoor use limited to 10 mW e.i.r.p.	Military Radiolocation and Fixed Service use
		within the band 2454-2483.5 MHz	
		Derogation in French overseas departments	
		of Guyane and La Réunion: outdoor use not allowed in band 2400-2420 MHz.	
	Italy	anowed in band 2400 2420 Will.	If used outside of own premises, general authorization is require
	Luxembourg	None	General authorization required for public service
	Norway	Implemented	This subsection does not apply for the geographical area within
	Tionway	Implemented	radius of 20 km from the centre of Ny-Ålesund
	Romania	On a secondary basis. Individual license requi T/R 22-06 not implemented	red.
Annex 3 Band I			
	ta Transmission systen	ns	
5150-5250 MH			
	Bulgaria	Not implemented	Planned
	Croatia	License required	
	Italy		General authorization required if used outside own premises
	Luxembourg	None	General authorization required for public service
	Romania	Not implemented	

Annex	Country	Restriction	Reason/remark
Annex 3 Band			
Wideband Da 5250-5350 M	ata Transmission systen Hz	ns	
	Bulgaria	Not implemented	Planned
	Croatia	License required	Consultant airetian arraind for a description arrains
	Italy	None	General authorization required if used outside own premises
	Luxembourg Romania	None Not implemented	General authorization required for public service
2.0.1		Not implemented	
<i>nnex 3 Band</i> Wideband De	<i>D</i> ata Transmission systen	ne	
5470-5725 M	<u> </u>		
01.00.201.1	Bulgaria	Not implemented	Planned
	France	•	Relevant+ provisions for the implementation of DFS mechanism
			described in ETSI standard EN 301 893 V1.3.1 and subsequent versions
	Italy		General authorization required if used outside own premises
	Luxembourg	None	General authorization required for public service
	Macedonia (FYR of)	Not implemented	Will be implemented soon
	Romania	Not implemented	oo mpiomonoa soon
	Turkey	Not implemented	Military services
Annex 3 Band	·		
	<i>E</i> ata Transmission systen	ne	
17.1-17.3 GH			
	Belgium	Not implemented	
	Bulgaria	Not implemented	Equipment/Standards not yet developed
	Croatia	License required	
	Czech Republic	Not implemented	Military applications
	France	Not implemented	
	Germany	Not implemented	Equipment/Standard not yet developed
	Hungary	Not implemented	Planned. No equipment and standards are available
	Italy		General authorization required if used outside own premises
	Luxembourg	Not implemented	
	Macedonia (FYR of)	Not implemented	Will be implemented soon
	Norway	Not implemented	
	Romania	Not implemented	
	Slovak Republic	Not implemented	Standard not yet available
	Spain	Not implemented	Planned
	Sweden	Not implemented	
	Turkey	Not implemented	
Annex 4 Band			
<b>Railway appl 2446-2454 M</b>			
	Bulgaria	Not implemented	Planned
	Cyprus	Not applicable	No railways
	Italy	Not implemented	
	Malta	Not implemented	Service not applicable to Malta
	Norway	Limited	Given center frequencies
	Romania	Secondary basis. Individual license required	2447.0, 2448.5, 2450.0, 2451.5 and 2453.0 MHz
		•	Under study
	Slovak Republic Spain	Not implemented Not implemented	Under study
	Spani Sweden	Not implemented  Not implemented	License required – Military band
(		. F	
Annex 4 Band			
Railway appl 27.095 MHz	ucations		
WIII	Bulgaria	Not implemented	Planned
	Croatia	Individual license required	
	Cyprus	Not applicable	No railways
	Cyprus	гол аррисаоте	NO fallways

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# Appendix 3 – National Restrictions

Annex 4 Band C Railway application 4515 kHz  Annex 5 Band A RTTT 5795-5805 MHz	Bulgaria Croatia Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented Not implemented Not implemented Not implemented  Not implemented  Not implemented Not applicable Not implemented	Service not applicable to Malta  27.115 MHz used as provided in EU legislation  Planned  No railways Under study  Service not applicable to Malta Governmental band
Annex 4 Band C Railway application 4515 kHz  Annex 5 Band A RTTT 5795-5805 MHz	Romania Sweden  ns  Bulgaria Croatia Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented Not implemented Not implemented  Not implemented  Not implemented Not applicable Not implemented	27.115 MHz used as provided in EU legislation  Planned  No railways Under study  Service not applicable to Malta
Annex 4 Band C Railway application 4515 kHz  Annex 5 Band A RTTT 5795-5805 MHz	Sweden  Bulgaria Croatia Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented Not implemented  Not implemented Not implemented Not applicable Not implemented	27.115 MHz used as provided in EU legislation  Planned  No railways Under study  Service not applicable to Malta
Annex 4 Band C Railway application 4515 kHz  Annex 5 Band A RTTT 5795-5805 MHz	Bulgaria Croatia Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented  Not implemented  Not implemented  Not applicable  Not implemented	Planned  No railways Under study  Service not applicable to Malta
Railway application 4515 kHz  Annex 5 Band A  RTTT 5795-5805 MHz	Bulgaria Croatia Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented Not applicable Not implemented	No railways Under study Service not applicable to Malta
Annex 5 Band A RTTT 5795-5805 MHz	Bulgaria Croatia Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented Not applicable Not implemented	No railways Under study Service not applicable to Malta
Annex 5 Band A RTTT 5795-5805 MHz	Croatia Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented Not applicable Not implemented	No railways Under study Service not applicable to Malta
Annex 5 Band A RTTT 5795-5805 MHz	Cyprus Greece Ireland Malta Portugal Romania Spain Sweden	Not applicable Not implemented	Under study  Service not applicable to Malta
Annex 5 Band A RTTT 5795-5805 MHz	Greece Ireland Malta Portugal Romania Spain Sweden	Not implemented	Under study  Service not applicable to Malta
Annex 5 Band A RTTT 5795-5805 MHz	Ireland Malta Portugal Romania Spain Sweden	Not implemented Not implemented Not implemented Not implemented Not implemented	Service not applicable to Malta
Annex 5 Band A RTTT 5795-5805 MHz	Malta Portugal Romania Spain Sweden	Not implemented Not implemented Not implemented Not implemented	**
Annex 5 Band A RTTT 5795-5805 MHz	Portugal Romania Spain Sweden	Not implemented Not implemented Not implemented	**
Annex 5 Band A RTTT 5795-5805 MHz	Romania Spain Sweden	Not implemented Not implemented	Governmental band
Annex 5 Band A RTTT 5795-5805 MHz	Spain Sweden	Not implemented	
Annex 5 Band A RTTT 5795-5805 MHz	Sweden	_	
Annex 5 Band A RTTT 5795-5805 MHz		Not implemented	
RTTT 5795-5805 MHz			
]			
	Bulgaria	Not implemented	Planned
	Cyprus	Not implemented	- Amineu
	France	Limited to automatic toll collection. Power limited to 2 W e.i.r.p.	Military Radiolocation and Meteorological use
,	Liechtenstein	Power limited to 2 W e.i.r.p.	Annex has two levels. Lower level is implemented
	Malta	Limited implementation	Power limited to 2 W e.i.r.p.
	Norway	Not implemented	1
	Portugal	Limited implementation	Power limited to 2 W e.i.r.p.
	Romania	Not implemented	Under study
	Switzerland	Power limited to 2 W e.i.r.p.	Annex has two levels. Lower level is implemented to protect military service
1	United Kingdom	Only 2 W permitted	Annex has two levels- the UK has only implemented the lowe level to protect programme making video links
Annex 5 Band B			
RTTT 5805-5815 MHz			
	Bulgaria	Not implemented	Planned
	Croatia	Individual license required	
	Cyprus	Not implemented	
	France	Not implemented	
	Liechtenstein	Not implemented	
	Luxembourg	None	General authorization required for public service
	Malta	Limited implementation	Power limited to 2 W e.i.r.p.
	Macedonia (FYR of)	Not implemented	•
	Norway	Not implemented	
	Portugal	Limited implementation	Power limited to 2 W e.i.r.p.
	Romania	Not implemented	Under study
	Switzerland	Not implemented	Planned 2007
	United Kingdom	Only 2 W permitted	Annex has two levels – the UK has only implemented the low
			level to protect programme making video links
Annex 5 Band C RTTT			
63-64 GHz			
	Austria	Not implemented	Equipment/standard not yet developed
	Bulgaria	Not implemented	Equipment/standard not yet developed
	Croatia	License required	1- 1
	Cyprus	Not implemented	
	Estonia	Power limited to 2 W e.i.r.p	
	Germany	Not implemented	Equipment/standard not yet developed
	France	Not implemented	1- 1
i	Liechtenstein	Not implemented	Under study. No standard available

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Annex	Country	Restriction	Reason/remark_
	al		
	Norway	Not implemented	
	Poland	Not implemented	Equipment/standard not yet developed
	Romania	Not implemented	-1F
	Slovak Republic	Not implemented	Standard not yet available
	Sweden	Not implemented	Equipment/standard not available
	Switzerland	Not implemented	Under study. No standard available
		1 tot implemented	Chaci stady. 110 standard dvariable
Annex 5 Band	D		
RTTT			
76-77 GHz			
	Bulgaria	Not implemented	Planned
	Cyprus	Not implemented	
	Romania	Not implemented	
Annex 6 Band	1		
Movement D			
2400.0-2483.5	5 MHz		
	France	Outdoor use limited to 10 mW e.i.r.p.	Military Radiolocation and Fixed Service use. Refarming of
		within the band 2454-2483.5 MHz.	the 2.4 GHz band has been ongoing over the last 2-3 years to allow current relaxed regulation. Use of Military radio-
		Derogation in French overseas departments of Guyane and La Réunion: outdoor use in	location systems still requires protection on a long term basis,
		band 2400-2420 MHz limited to 2.5 mW.	in particular in band 2450-2483.5 MHz.
		e.i.r.p.	
	Romania	Not implemented	Under study
	United Kingdom	Limited implementation – only	Full implementation planned
		to 2445-2455 MHz permitted	
Annex 6 Band	В		
Movement De			
9200-9500 M			
9200-9500 IVI		No. 1	TN I
	Bulgaria	Not implemented	Planned
	Finland	Not implemented	
	France	Not implemented	
	Greece	Not implemented	
	Italy	Not implemented	Military applications
	Romania	Not implemented	
	Serbia & Montenegro	Not implemented	
	Spain	Not implemented	
	Sweden	Not implemented	
	United Kingdom	Limited implementation – may be used for Radar Level Gauges on a licence	European use of 10 GHz for movement sensing and alert is fragmented The UK has an allocation at 10.577-10.597 GHz for these devices
		per site basis only	The OK has an anocation at 10.377-10.357 GHz for these devices
Annex 6 Band			
Movement D			
9500-9975 M	Hz		
	Bulgaria	Not implemented	Planned
	France	Limited to 9.88-9.92 with max e.i.r.p. 50 mW	
	Germany	Not implemented	Military band
	Latvia	Not implemented	Under study
	Romania	Not implemented	
	Serbia & Montenegro	Not implemented	
	Slovak Republic	Not implemented	Military services
	Spain	Not implemented	
	Sweden	Not implemented	
	United Kingdom	Limited implementation - may be	
	Ţ.	used for Radar Level Gauges on a license	
_		per site basis only	
Annow & Daw 1	<u></u>		
Annex 6 Band			
Movement De			
10.5-10.6 GH			
	Austria	Not implemented	Fixed Service
	Bulgaria	Not implemented	Planned
	Croatia	Limited	
	Crook D1:-	Not implemented	Other services in the hand

Czech Republic

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Not implemented

Other services in the band

Annex	Country	Restriction	Reason/remark_
	Estonia	Not implemented	FWA
	Finland	Not implemented	10.45-10.50 GHz available
	France	Limited to 10.57-10.61 with max e.i.r.p. 20 m	W
	Germany	Not implemented	ENG/OB video links equipment
	Hungary	Limited	e.i.r.p. 25 mW. ENG/OB systems are protected
	Ireland	25 mW e.i.r.p. power limit	
	Luxembourg	In the band 10.5-10.6 GHz the e.i.r.p. is limited to 25 mW	To avoid interference with ENG/OB and Fixed Service (ERC Report 47)
	Portugal	Not implemented	SAP/SAB applications
	Romania	Not implemented	F:1 C:
	Slovak Republic	Not implemented Limited to 10517.5-10537.5 MHz	Fixed Service
	Spain Sweden	Limited to 10.517.5-10.537.5 MFIZ  Limited to 10.51-10.58 GHz	
	Turkey		Fixed Service
	United Kingdom	Not implemented Limited to 10.577-10.597 GHz. May be	The UK is developing Fixed Wireless Access
	Cinica Kingdom	used for Radar Level Gauges on a license per site basis only	in the band below 10.575 GHz
Annex 6 Band			
Movement De 13.4-14.0 GH	z		
	Bulgaria	Not implemented	Planned
	France	Not implemented	
	Romania	Not implemented	
	Spain	Not implemented	
	Sweden	Not implemented	
	Turkey	Not implemented	
Movement Do 24.05-24.25 G		Not implemented	Military Radiolocation use. Operation by police
	France	No restriction for fixed applications.  Power limited otherwise to 0.1 mW e.i.r.p. in frequency band 24.10 - 24.15 GHz.  Alternatively for FMCW modulation, the following conditions are also allowed: power limited to 20 mW (+13 dBm) mean e.i.r.p. and 50 mW (+17 dBm) peak e.i.r.p. with a minimum frequency sweep speed of 5 MHz per millisecond.	forces of Radar Speed Meters.
	Romania	Not implemented	
	United Kingdom	Only 24.150-24.250 GHz	Restriction to protect police speedmeters. UK reviewing its position
Annex 7 Band	$\boldsymbol{A}$		
Alarms	100 N FTT		
868.600-868.7	700 MHz France	Duty cycle limited to 0.1%	Implementation in France becomes limited if a duty cycle limi of 1% is confirmed for band 7(a) of Rec.70-03
	Romania United Kingdom	Not implemented Duty cycle limit 0.1%	UK will be altering its regulations to align with new 70-03 level of 1%
Annex 7 Band	В		2.0.011/0
Alarms 869.250-869.3	300 MHz		
	Romania	Not implemented	
Annex 7 Band		Tot implemented	
Alarms 869.650-869.7	700 MHz		
	Romania	Not implemented	
		*	Military applications
	Slovak Republic	Max 10 mW e.r.p.	Military applications

Annex	Country	Restriction	Reason/remark
Annex 7 Band D	)		
Alarms 869.200-869.25			
007.200-007.23	Cyprus	Not implemented	
Annex 7 Band E		•	
Alarms			
869.300-869.40	0 MHz		
	rs have been changed)		
	Austria	Not implemented	
	Belgium	Not implemented	
	Bulgaria Croatia	Not implemented Not implemented	
	Cyprus	Not implemented	
	Czech Republic	Not implemented	
	Estonia Estonia	Individual license required	Under consideration
	France	Not implemented	Onder consideration
	Germany	Not implemented	
	Greece	Not implemented	
	Iceland	Not Implemented	
	Ireland	Not implemented	Planned
	Italy	Not implemented	
	Latvia	Not implemented	
	Lithuania	Not implemented	
	Luxembourg	Not implemented	
	Macedonia (FYR of)	Not implemented	
	Norway	Not implemented	
	Poland	Not implemented	
	Romania Serbia & Montenegro	Not implemented	
	Slovenia	Not implemented Not implemented	
	Spain	Not implemented	
		Not implemented	
	Sweden		
	Sweden Turkey	Planned	Implemented after SRD Ordinance
A 7 D 1 F	Turkey		Implemented after SRD Ordinance
Annex 7 Band F	Turkey		Implemented after SRD Ordinance
Annex 7 Band F Alarms 169.4750-169.4	Turkey		Implemented after SRD Ordinance
Alarms	Turkey		Implemented after SRD Ordinance
Alarms	Turkey . 875 MHz	Planned	Implemented after SRD Ordinance
Alarms	Turkey  875 MHz  Austria	Planned  Not implemented	Implemented after SRD Ordinance
Alarms	Turkey  875 MHz  Austria Belgium	Planned  Not implemented  Not implemented	Implemented after SRD Ordinance
Alarms	Turkey  7.  Part of the second	Not implemented Not implemented Not implemented Not implemented Not implemented Not implemented	Implemented after SRD Ordinance
Alarms	Turkey	Not implemented	•
Alarms	Turkey  875 MHz  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark	Not implemented	Implemented after SRD Ordinance  PMR band
Alarms	Turkey  875 MHz  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France	Not implemented	•
Alarms	Turkey  875 MHz  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany	Not implemented	•
Alarms	Turkey  875 MHz  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece	Not implemented	PMR band
Alarms	Turkey  875 MHz  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland	Not implemented	•
Alarms	Turkey  875 MHz  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy	Not implemented	PMR band
Alarms	Turkey  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia	Not implemented	PMR band Under study
Alarms	Turkey  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein	Not implemented	PMR band
Alarms	Turkey  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania	Not implemented	PMR band Under study
Alarms	Turkey  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania Luxembourg	Not implemented	PMR band Under study
Alarms	Turkey  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania Luxembourg Macedonia (FYR of)	Not implemented	PMR band Under study
Alarms	Turkey  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania Luxembourg Macedonia (FYR of) Norway	Not implemented	PMR band Under study A paging system is active in the adjacent channel
Alarms	Turkey  Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania Luxembourg Macedonia (FYR of)	Not implemented	PMR band Under study
Alarms	Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania Luxembourg Macedonia (FYR of) Norway Poland	Not implemented	PMR band Under study A paging system is active in the adjacent channel
Alarms	Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania Luxembourg Macedonia (FYR of) Norway Poland Romania	Not implemented	PMR band Under study A paging system is active in the adjacent channel
Alarms	Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark France Germany Greece Ireland Italy Latvia Liechtenstein Lithuania Luxembourg Macedonia (FYR of) Norway Poland Romania Serbia & Montenegro	Not implemented	PMR band Under study A paging system is active in the adjacent channel

# ${\bf Appendix~3-National~Restrictions}$

Annex	Country	Restriction	Reason/remark
	Sweden	Not implemented	
	The Netherlands	Not implemented	
	Turkey	Planned	Implemented after SRD Ordinance
	United Kingdom	Not implemented	Planned
Annex 7 Band G			
Alarms			
169.5875-169.600	0 MHz		
	Austria	Not implemented	
	Belgium	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Cyprus	Not implemented	
	Czech Republic	Not implemented	
	Denmark	Not implemented	PMR band
	France	Not implemented	
	Germany	Not implemented	
	Greece	Not implemented	
	Iceland Ireland	Not Implemented	Understudy
	Italy	Not implemented Not implemented	Under study
	Latvia	Not implemented	
	Lithuania	Not implemented	
	Luxembourg	Not implemented	
	Macedonia (FYR of)	Not implemented	
	Norway	Not implemented	
	Poland	Not implemented	Planned from 01.01.2006
	Portugal	Not implemented	
	Romania	Not implemented	
	Serbia & Montenegro	Not implemented	
	Slovenia	Not implemented	
	Spain	Not implemented	
	Sweden	Not implemented	
	The Netherlands	Not implemented	
	Turkey	Planned	Implemented after SRD Ordinance
	United Kingdom	Not implemented	Planned
Annex 8 Band A			
<b>Model Control</b>			
26.995, 27.045, 2°	7.095, 27.145,		
27.195 MHz	France	Implementation without restriction	Planned 2006
	1 fance	implementation without restriction	1 minot 2000
Annex 8 Band B			
Model Control	**		
34.995-35.225 M		Total and the state of the stat	Dedicated automates 6 250 to 60
	France	Implementation limited to frequency band 34.995 - 35.015 MHz planned 2006	Dedicated networks for Ministry of transport.
	Germany	Limited to 35.005-35.205 MHz	Emergency services
	Liechtenstein	Until 31.12.2007 shared with the previous	Until 31.12.2007.
	•	users, interference-free operation cannot be	18 exclusive frequencies available at 40.715-40.985 MHz
		guaranteed. Starting from 1.1.2008	band for flying models
	Norway	exclusively for flying models Limited	Given center frequencies
	1101 way	Zaniicu	(35.000 – 35.010 – 35.020 MHz etc.)
	Romania	Limited to 34.995-35.005 and 35.195-35.225 N	VIHZ.
	Romania	Limited to 34.995-35.005 and 35.195-35.225 M Individual license required if e.r.p. >100 mW	VIHZ.
	Romania Spain		viHz.
		Individual license required if e.r.p. >100 mW Limited to 35.030-35.200 MHz Until 31.12.07 shared with the previous	Until 31.12.07 18 exclusive frequencies are available
	Spain	Individual license required if e.r.p. >100 mW Limited to 35.030-35.200 MHz	

Annex	Country	Restriction	Reason/remark_
Annex 9 Band	AA		
Inductive app 9-59.750 kHz	plications		
y cytreo mil	Croatia	Not implemented	
	Romania	Not implemented	
	Spain	Limited to 20.05-70 kHz	
Annex 9 Band	AB		
Inductive app 59.750-60.250			
	Croatia	Not implemented	
	Romania	Not implemented	
Annex 9 Band Inductive ap			
60.250-70.00			
	Croatia	Not implemented	
	Romania	Not implemented	
Annex 9 Band	В		
Inductive app 70-119 kHz	plications		
	Croatia	Not implemented	
	Romania	Not implemented	
Annex 9 Band	$\boldsymbol{C}$		
Inductive ap 119-135 kHz			
112 100 1111	Croatia	Not implemented	
	Germany	Within 119-127 kHz max field s at 10 metres, within 127-135 kH is 42 dBμA/m at 10 metres. Rea the protection of the application in the primary Fixed Service. The protection of the primary Fixed Service.	Iz max field strength son for this restriction is "radio ripple control" the length of any
	Romania	antenna loop element shall be < Not implemented	50 III
4 0 D 1	G1	*	
Annex 9 Band Inductive app 135-140 kHz			
135-140 KHZ	Bulgaria	Not implemented	Planned
	Greece	Not implemented	
	Ireland	Not implemented	Planned
	Italy	Not implemented	Planned
	Latvia	Not implemented	
	Norway	Not implemented	
	Portugal	Not implemented	Planned end 2004
	Romania	Not implemented	
	Spain Turkey	Not implemented Planned	Implemented after SRD Ordinance is revised
	Turkey	1 IaiiiiCU	implemented after SKD Ordinance is revised
Annex 9 Band	C2		
Inductive app 140.0-148.5 k			
	Bulgaria	Not implemented	Planned
	Greece	Not implemented	
	Ireland	Not implemented	Planned
	Italy	Not implemented	Planned
	Latvia	Not implemented	
	Norway	Not implemented	
	Portugal	Not implemented	Planned end 2004
	Romania	Not implemented	
	Spain	Not implemented	

Annex	Country	Restriction	Reason/remark
	Turkey	Planned	Implemented after SRD Ordinance is revised
Annex 9 Band L	)		
Inductive appl			
6765-6795 kHz			
	Croatia	Individual license required	
	The Netherlands	Implemented according to ERC/DEC(01)14	
Annex 9 Band E	Ž.		
Inductive app			
7400-8800 kH		National and d	
	Croatia Romania	Not implemented Not implemented	
Annex 9 Band F		Tot implemented	
Inductive app 13.553-13.567			
10.000 10.007	Croatia	Individual licance required	
	Croatia The Netherlands	Individual license required Implemented according to ERC/DEC(01)14	
Annex 9 Band F			
Inductive app			
13.553-13.567			
	Belgium	Not implemented	Pl 1
	Bulgaria	Not implemented	Planned
	Croatia	Not implemented	
	Greece	Not implemented	DI I
	Ireland	Not implemented	Planned
	Latvia	Not implemented	DI 12007
	Liechtenstein	Not implemented	Planned 2007
	Lithuania Luxembourg	Not implemented	Under study
	Norway	Not implemented Not implemented	
	Romania	Not implemented	
	Spain	Not implemented	
	Switzerland	Not implemented	Planned 2007
	Switzerialid	Not implemented	Fidilileu 2007
Annex 9 Band C	$\vec{r}$		
Inductive appl	ications		
26.957-27.283			
40.731-41.403			
20.731-21.203	Croatia	Individual license required	
	Croatia	Individual license required	
Annex 9 Band H	I	Individual license required	
Annex 9 Band H	<i>I</i> lications	Individual license required	
Annex 9 Band H	<i>I</i> lications MHz		
Annex 9 Band H	I lications MHz Austria	Not implemented	
Annex 9 Band H	I lications MHz Austria Belgium	Not implemented Not implemented	
Annex 9 Band H	I lications MHz Austria Belgium Bulgaria	Not implemented Not implemented Not implemented	Planned
Annex 9 Band H	lications MHz Austria Belgium Bulgaria Croatia	Not implemented Not implemented Not implemented Not implemented	Planned
Annex 9 Band H	lications MHz Austria Belgium Bulgaria Croatia Cyprus	Not implemented Not implemented Not implemented Not implemented Not implemented Not implemented	Planned
Annex 9 Band H	Hications MHz Austria Belgium Bulgaria Croatia Cyprus Greece	Not implemented	
Annex 9 Band H	Hications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland	Not implemented	Under study
Annex 9 Band H	Ilications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy	Not implemented	
Annex 9 Band H	Ilications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy Latvia	Not implemented	Under study Planned
Annex 9 Band H	Ilications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy Latvia Lithuania	Not implemented	Under study
Annex 9 Band H	Ilications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy Latvia Lithuania Luxembourg	Not implemented	Under study Planned
Annex 9 Band H	Ilications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy Latvia Lithuania Luxembourg Norway	Not implemented	Under study Planned
Annex 9 Band H	lications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy Latvia Lithuania Luxembourg Norway Portugal	Not implemented	Under study Planned
Annex 9 Band H	lications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy Latvia Lithuania Luxembourg Norway Portugal Romania	Not implemented	Under study Planned
Annex 9 Band H	lications MHz Austria Belgium Bulgaria Croatia Cyprus Greece Ireland Italy Latvia Lithuania Luxembourg Norway Portugal	Not implemented	Under study Planned

United: Page 1	Annex	Country	Restriction	Reason/remark
	Anner 9 Rand	K		
Not implemented   Planned   Planne				
Bilgaria   Not implemented   Planned   Plann				
Ireland   Not implemented   Planned   Planne			Not implemented	Planned
Indy				
Latvia   Not implemented   Note   N				
Narway Not implemented Panned end 2004 Romania Not implemented Spin Not implemented Spin Not implemented Spin Not implemented Spin Not implemented United Kingdom Not implemented Spin Not implemented United Kingdom Not implemented Spin Not i		•		Planned
Portugal   Not implemented   Planned end 2004				
Romania   Not implemented   Sprain   State		•		Planned and 2004
Serbia & Montenegro   Not implemented   Spain				Planned end 2004
Spain   Not implemented   United Kingdom   Not implemented   Variety   Va				
United Kingdom   Not implemented   This Annex permits   13.08μ A/m while the UK only permits		•		
Manex 9 Band 1.1   Inductive applications   Ids. 5 kHz-5 MHz				This Annex permits 13.3dBu A/m while the UK only permits
Mustria   No info   No i		Omed Hingdom	Tot implemented	
Austria	Annex 9 Band	L1		
Austria   No info   Belgium   No info   Croatia   No info   Croatia   No info   Czech Republic   No info   Norway   Norway   No info   Norway   Norway   Norway				
Belgium   No info   Bosnia & Herzegovina   No info   Bosnia & Herzegovina   No info   Croatia   No info   Croatia   No info   Czech Republic   No info   C	148.5 kHz-5		N : C	
Bosinia & Herzegovina   Rolinfo				
Bulgaria   No info   Croatia   No info   Cro				
Cypeus   No info   Cyceuk Republic   Re		Bulgaria	No info	
Cicel Republic   No info   Ristonia   No info   Ristonia   No info   Ristonia   No info   Ristonia   Ristoni				
Estonia   No info   France   No info   Germany   No info   Germany   No info   Germany   No info   Gerece   No info   Inda   No info   Inda   Inda   No info   Inda   In				
Germany Germany Grece No info Iceland No info Italy No info Ireland Italy No info Ireland Italy No info Ireland Italy No info Italy				
Greece No info Italy No info Italy No info Italy No info Ireland No info Ireland No info Ireland No info Italy No info Norway No timplemented Poland No info Portugal No info Serbia & Montengro Slowak Republic No info Sweden No info Sweden No info Sweden No info No info Sweden No info No info No info Sweden No info Bosnia Herzegovina No info Bosnia Herzegovina No info Croata No info Croata No info Croata No info Greece No info Greece No info Germany No info Hungary Not implemented Italy No info				
Lecland   No info   Hulay   No info   Hulay   No info   Hulay   Limited   148.5-1600 kHz band is open. 1600-5000 kHz band is planned   Latvia   No info   Liechtenstein   No info   Liechtenstein   No info   Liechtenstein   No info   Liuxembourg   No info   Maccionia (FYR of)   No info   Maccionia (FYR of)   No info   Norway   No timplemented   Poland   No info   Norway   No timplemented   Poland   No info   Portugal   No info   Serbia & Montenegro   No info   Soviak Republic   No info   Soviak Republic   No info   Spain   No info   Spain   No info   Switzerland   Limited 148.5-1600 kHz   Planned 2007   The Netherlands   No info   Switzerland   Limited 148.5-1600 kHz   Planned 2007   The Netherlands   No info   Turkey   Planned   Implemented after SRD Ordinance is revised   Implemented after SRD Ordinance   Sevice   No info   Implemented   Planned   Plan				
Italy				
Hungary				
Latvia No info Lichenstein No info Lithuania No info Luxembourg No info Maccolonia (FYR of) No info Malta No info Norway Not implemented Poland No info Romania No info Serbia & Montenegro No info Slovak Republic No info Syain No info Sweden No info Sweden No info Switzerland Limited 148.5-1600 kHz Planned 2007 The Netherlands No info Turkey Planned Implemented after SRD Ordinance is revised United Kingdom No info Sound Republic No info Switzerland No info Switzerland Limited 148.5-1600 kHz Planned 2007 The Netherlands No info Switzerland Limited 148.5-1600 kHz Planned 2007 The Netherlands No info Switzerland No info No info No info No info No info Switzerland No info Sound Planned No info Sound Selgium No info Sound No i				140.5.1600.111.1.1.1.1.1.00.5000.111.1.1.1.1.1.1
Lichenstein No info Lithuania No info Lithuania No info Macedonia (FYR of) No info Malta No info Morway Not implemented Poland No info Portugal No info Romania No info Serbia & Montenegro No info Slovak Republic No info Spain No info Sweden No info Switzerland Limited 148.5-1600 kHz Planned 2007 Turkey Planned Implemented after SRD Ordinance is revised United kingdom No info Turkey Planned Implemented after SRD Ordinance is revised United applications  5-30 MHz  Annex 9 Band Lz  Belgium No info Bosnia Herzegovina No info Bosnia Herzegovina No info Croatia No info Croatia No info Cyprus No info Cyprus No info Cyprus No info Estonia No info France No info Geree No info France No info Geree No info Greece				148.5-1600 kHz band is open. 1600-5000 kHz band is planned
Luxembourg Macedonia (FYR of) No info Macedonia (FYR of) No info Malta No info Norway Not implemented Poland No info Portugal No info Portugal No info Serbia & Montenegro No info Serbia & Montenegro No info Slovak Republic No info Slovak Republic No info Spain No info Spain No info Sweden No info Sweden No info Trakey Planned Implemented after SRD Ordinance is revised United Kingdom No info  Annex 9 Band L2 Inductive applications 5-30 MHz  Avatria No info Belgium No info Bosnia Herzegovina No info Bosnia Herzegovina No info Croatia No info Croatia No info Cyptus No info Cyptus No info Czech Republic No info Estonia No info Gerece No info Gerece No info Gerece No info Hungary Not implemented Planned Letland No info Hungary Not implemented Planned				
Macedonia (FYR of)   No info   Malta   No info   No info   No info   Norway   Not implemented   Poland   No info   Portugal   No info   Romania   No info   Serbia & Montenegro   No info   Slovak Republic   No info   Slovak Republic   No info   Spain   No info   Spain   No info   Sweden   No info   Switzerland   Limited 148.5-1600 kHz   Planned 2007   The Netherlands   No info   Turkey   Planned   Implemented after SRD Ordinance is revised   Implemented Kingdom   No info   No info   Turkey   Planned   Implemented after SRD Ordinance is revised   Implemented after SRD Ordinance is revised   No info   Spain   Herzegovina   No info   Spain   Herzegovina   No info   Spain   Herzegovina   No info   Spain   Herzegovina   No info   Spain   No inf				
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Sweden No info Switzerland Limited 148.5-1600 kHz Planned 2007 The Netherlands No info Turkey Planned Implemented after SRD Ordinance is revised United Kingdom No info  Annex 9 Band L2 Inductive applications 5-30 MHz  Austria No info Belgium No info Bosnia Herzegovina No info Bulgaria No info Croatia No info Cyprus No info Czech Republic No info Estonia No info France No info Germany No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info Implemented 2007 Implemented				
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Turkey United Kingdom No info  Annex 9 Band L2 Inductive applications 5-30 MHz  Austria No info Belgium No info Bosnia Herzegovina No info Croatia No info Czech Republic No info Estonia No info Estonia No info Greece No info Greece No info Hungary No info Hungary No info Hungary No info Implemented after SRD Ordinance is revised at the second and a second after a second and a second a second and a second a se		Switzerland	Limited 148.5-1600 kHz	Planned 2007
United Kingdom No info  Annex 9 Band L2 Inductive applications 5-30 MHz  Austria No info Belgium No info Bosnia Herzegovina No info Bulgaria No info Croatia No info Cyprus No info Czech Republic No info Estonia No info France No info Germany No info Greece No info Hungary Not implemented Hungary Italy No info Iceland No info Iceland No info Iceland Planned				
S-30 MHz				Implemented after SRD Ordinance is revised
Austria No info Belgium No info Bosnia Herzegovina No info Bulgaria No info Croatia No info Cyprus No info Czech Republic No info Estonia No info France No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info	Inductive ap			
Bosnia Herzegovina No info Bulgaria No info Croatia No info Cyprus No info Czech Republic No info Estonia No info France No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info	- CO MARK	Austria		
Bulgaria No info Croatia No info Cyprus No info Czech Republic No info Estonia No info France No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info				
Croatia No info Cyprus No info Czech Republic No info Estonia No info France No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info		_		
Cyprus No info Czech Republic No info Estonia No info France No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info				
Estonia No info France No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info		Cyprus	No info	
France No info Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info		-		
Germany No info Greece No info Hungary Not implemented Planned Italy No info Iceland No info				
Greece No info Hungary Not implemented Planned Italy No info Iceland No info				
Italy No info Iceland No info		Greece	No info	
Iceland No info			-	Planned
		Ireland	No info	

Annex	Country	Restriction	Reason/remark
	Latvia	No info	
	Liechtenstein	No info	
	Lithuania	No info	
	Luxembourg	No info	
	Macedonia (FYR of)	No info	
	Malta	No info	
	Norway	Not implemented	
	Poland	No info	
	Portugal	No info	
	Romania	No info	
	Serbia & Montenegro	No info	
	Slovak Republic	No info	
	Slovenia	No info	
	Spain	No info	
	Sweden	No info	
	Switzerland	Not implemented	Planned 2007
	Turkey	Planned	Implemented after SRD Ordinance is revised
	United Kingdom	No info	
nex 9 Band L Inductive appl			
00-600 kHz			
	Austria	No info	
	Belgium	No info	
	Bosnia & Herzegovina	No info	
	Bulgaria	No info	
	Croatia	No info	
	Cyprus	No info	
	Czech Republic	No info	
	Denmark	Not implemented	Planned
	Estonia	No info	
	France	No info	
	Germany	No info	
	Greece	No info	
	Iceland	No info	
	Italy	No info	
	Ireland	No info	
	Latvia	No info	
	Liechtenstein	No info	
	Lithuania	No info	
	Luxembourg	No info	
	Macedonia (FYR of)	No info	
	Malta	No info	
	Norway	Not implemented	
	Poland	No info	
	Portugal	No info	
	Romania	No info	
	Serbia & Montenegro	No info	
	Slovak Republic	No info	
	Slovenia	No info	
	Spain	No info	
	Sweden	No info	
	Switzerland	Not implemented	Planned 2007
	The Netherlands	No info	
	Turkey	Planned	Implemented after SRD Ordinance is revised
	United Kingdom	No info	
nex 10 Band A	A nones and Assistive Lis	tening Devices	
9.7-47.0 MHz		Ü	
	Austria	Limited	only the frequencies 36.8, 36.85, 37.45, 37.50-37.55 MHz
			for narrow band and 36.7-37.1-44.55-45.0 MHz for broadband radio microphones are available
	Bulgaria	Limited	to 36.3, 36.5, 36.7, 36.9, 37.1 and 46.0-46.2 MHz
	Croatia	License required	
		•	1 20 1 20 05 1 20 05 20 20 17 20 17 17 17
	Czech Republic	Limited	to 36.4-36.65 and 36.65-38 MHz, Military applications 2 mW e.r.p. (handicapped only) 38-38.5 MHz
	Estonia	Limited to 37.6-38.6 MHz	Land mobile
	Estonia Finland	Limited to 37.6-38.6 MHz Limited	only 31.1, 32.1, 32.9, 33.5, 36.7, 37.1 and 42.4-43.6 MHz wi
	Finland	Limited	only 31.1, 32.1, 32.9, 33.5, 36.7, 37.1 and 42.4-43.6 MHz wi max 200 kHz channels
	Finland France	Limited  Limited	only 31.1, 32.1, 32.9, 33.5, 36.7, 37.1 and 42.4-43.6 MHz wi max 200 kHz channels to 32.8, 36.4, 39.2 MHz 1 mW e.r.p. and 200 kHz
	Finland	Limited	only 31.1, 32.1, 32.9, 33.5, 36.7, 37.1 and 42.4-43.6 MHz wi max 200 kHz channels

Annex	Country	Restriction	Reason/remark_
	Greece	Limited	to 30, 30.5, 31, 35, 36.5, 36.7, 37, 37.1, 37.5 MHz
	Greece	Elimod	38.25-47 MHz Governmental use
	Hungary	Limited	34.9-38.5 MHz band is allocated
	Ireland	Not implemented	Planned
	Italy	Limited to 41-43.6 MHz	Military applications
	Latvia	Not implemented	7 11
	Liechtenstein	Limited	to 31.4-39.6 MHz
	Luxembourg	Limited	to 29.7-38 MHz, excluding the use of the band
	-		34.995-35.225 MHz
	Malta	Limited	to 29.7-34.9 and 37.5-40.98 MHz
	Norway	Limited	to 41.0-43.6 MHz max channel spacing 10 kHz. Max 100 mV e.r.p. AM not allowed
	Portugal	Not implemented	
	Romania	Not implemented	
	Slovak Republic	Limited to 27.75-27.9 and 36.4-38.5 MHz	Military services in the rest of the band
	Spain	Limited	to 31.5, 31.75, 37.85, 38.3 and 38.55 MHz
	Sweden	Limited to 41.0-43.6 MHz	Land Mobile
	Switzerland United Kingdom	Limited to 31.4-39.6 MHz Individual license required	Main use by military services 26 countries have restrictions here. Many could be removed i licensing was specified in the Annex

### Annex 10 Band B

## Radio Microphones and Assistive Listening Devices

## 173.965-174.015 MHz

Not implemented Austria Belgium Not implemented Bulgaria Not implemented Planned Croatia Not implemented Denmark Not implemented PMR band Finland Individual license require PMR and broadcasting usage Regional restrictions France Not implemented Governmental band Greece Not implemented Under study Liechtenstein Not implemented Occupied with mobile services to 173.8125, 173.8375, 173.8625, 173.8875, 173.9125, 173.9375, Norway Limited 173.9625, 173.9875 MHz Poland Not implemented Military band Romania Not implemented Spain Not implemented Sweden Not implemented Land Mobile Switzerland Not implemented Closely occupied with mobile services

# Annex 10 Band C

### **Radio Microphones and Assistive Listening Devices**

863-865 MHz

Croatia License required Limited to 845-862 MHz Romania

## Annex 10 Band D

## Radio Microphones and Assistive Listening Devices 174-216 MHz

Austria Not implemented Bulgaria Not implemented Croatia Not implemented Denmark Limited implementation Finland Regional restrictions France

Planned

175.5-178.5 and 183.5-186.5 MHz with 10 mW e.r.p. and 200 kHz channel spacing

Ireland Individual license required

Latvia Not implemented Under study Malta Not implemented Band allocated to broadcasting services

Norway Not implemented Romania Not implemented

Limited to 174.1, 174.3, 175.5, 176.3, 179.3, 188.1, 188.5, 189.1, 191.9 and 194.5 MHz

Spain Edition of November 2006

ERC/REC 70-03 Appendix 3, Page 46	Appendix 3 – National Restrictions		
Annex	Country	Restriction	Reason/remark
	The Netherlands		License exempted
Annex 10 Band E			
Radio Microphor 470-862 MHz	nes and Assistive Lis	tening Devices	
470-002 11112	Austria	Individual license required	
	Bulgaria	Not implemented	Planned
	Croatia	License required	
	Denmark	Limited	to 800.100-819.900 MHz
	Finland	Only 790.100-821.900 and 854-862 MHz Individual licence required	
	France	Limited	to 470-830 MHz
	Germany	Subbands 608-614 MHz (TV ch 38) and 814-838 MHz (TV ch 64-66) excluded	Radio Astronomy, military applications
	Ireland	Individual license required	
	Italy	Limited to 470-854 MHz	854-862 MHz is exclusive military band
	Latvia	Not implemented	Under study
	Malta	Limited	to 854-862 MHz
	Norway	Limited	to 800-820 MHz max 20 mW e.r.p.
	Macedonia (FYR of)	Not implemented	Will be implemented soon
	Romania	Not implemented	
	Spain	Not implemented	
	The Netherlands		License exempted
	Ukraine	Individual license required	
Annex 10 Band F			
Radio Micropho 1785-1795 MHz	nes and Assistive Lis	stening Devices	
	Austria	No info	
	Belgium	No info	
	Bosnia & Herzegovina	No info	
	Bulgaria	No info	
	Croatia	No info	
	Cyprus	No info	
	Casab Danublia	No info	

Czech Republic No info Estonia No info France No info No info Germany No info Greece No info Iceland No info Italy Ireland No info Latvia No info No info Liechtenstein Lithuania No info Luxembourg No info Macedonia (FYR of) No info Malta No info Poland No info Portugal No info Romania No info Serbia & Montenegro No info Slovak Republic No info Slovenia No info Spain No info Sweden No info The Netherlands No info

United Kingdom

No info

Annex **Country** Restriction Reason/remark Annex 10 Band G Radio Microphones and Assistive Listening Devices 1795-1800 MHz Austria No info Belgium No info Bosnia & Herzegovina No info Bulgaria No info No info Croatia No info Cyprus Czech Republic No info Finland Not implemented France No info Germany No info Greece No info Iceland No info Italy No info Ireland No info Latvia No info Liechtenstein No info Lithuania No info Luxembourg No info Macedonia (FYR of) No info Malta No info Poland No info Portugal No info No info Romania Serbia & Montenegro No info Slovak Republic No info No info Slovenia Spain No info Sweden No info The Netherlands No info United Kingdom No info Annex 10 Band H1 **Radio Microphones and Assistive Listening Devices** 169.4000-169.4750 MHz Austria No info Belgium No info Bosnia & Herzegovina No info Bulgaria No info Croatia No info Cyprus No info Czech Republic No info Denmark Not implemented PMR band Estonia No info 169.4125 - 169.4625 MHz Finland Limited implementation France No info Germany No info No info Greece Iceland No info Italy No info Ireland No info Latvia No info Liechtenstein No info Lithuania No info Luxembourg No info Macedonia (FYR of) No info No info Malta

Norway

Poland

Not implemented

No info

Annex	Country	Restriction	Reason/remark_
	Portugal	No info	
	Romania	No info	
	Serbia & Montenegro	No info	
	Slovak Republic	No info	
	Slovenia	No info	
	Spain	No info	
	Sweden	No info	
	Switzerland	Not implemented	Planned 2007
	The Netherlands	No info	
	Turkey	Planned	Implemented after SRD Ordinance is revised
	United Kingdom	No info	
nnex 10 Ban	d H2		
Radio Micro 169.4875-169	phones and Assistive Lis 0.5875 MHz	tening Devices	
20,110.0 20,	Austria	No info	
	Belgium	No info	
	Bosnia & Herzegovina	No info	
	Bulgaria	No info	
	Croatia	No info	
	Cyprus	No info	
	Czech Republic	No info	
	Denmark	Not implemented	PMR band
	Estonia	No info	
	France	No info	
	Germany	No info	
	Greece	No info	
	Iceland	No info	
	Italy	No info	
	Ireland	No info	
	Latvia	No info	
	Liechtenstein	No info	
	Lithuania	No info	
	Luxembourg	No info	
	Macedonia (FYR of)	No info	
	Malta	No info	
	Norway	Not implemented	
	Poland	No info	
	Portugal	No info	
	Romania	No info	
	Serbia & Montenegro	No info	
	Slovak Republic	No info	
	Slovenia	No info	
	Spain	No info	
	Sweden	No info	
	Switzerland	Not implemented	Planned 2007
	The Netherlands	No info	
	Turkey	Planned	Implemented after SRD Ordinance is revised
	United Kingdom	No info	
nnex 10 Ban			
	phones and Assistive Lis	tening Devices	
169.4-174.0 N		CHILE DEVICES	
	Austria	No info	
	Belgium	No info	
	Bosnia & Herzegovina	No info	
	Bulgaria	No info	
	Croatia	No info	
	Cyprus	No info	
	Czech Republic	No info	
	Estonia	No info	
	Finland	Not implemented	
	France	No info	

France

No info

Annex	Country	Restriction	Reason/remark
	Germany	No info	
	Greece	No info	
	Hungary	Not implemented	Planned
	Iceland	No info	
	Italy	No info	
	Ireland	No info	
	Latvia	No info	
	Liechtenstein	No info	
	Lithuania	No info	
	Luxembourg	No info	
	Macedonia (FYR of)	No info	
	Malta	No info	
	Norway	Not implemented	
	Poland	No info	
	Portugal	No info	
	Romania	No info	
	Serbia & Montenegro	No info	
	Slovak Republic	No info	
	Slovenia	No info	
	Spain	No info	
	Sweden	No info	
	Switzerland	Not implemented	Occupied with mobile services
	The Netherlands	No info	
	Turkey	Not implemented	169.8-174.0 MHz band is used by PMR
	United Kingdom	No info	
nnex 11 Band A			
RFID			
2446-2454 MHz	D 1 '	NT	Di I
	Bulgaria	Not implemented	Planned
	Croatia	Not implemented	
	France	Max e.i.r.p. 500 mW	
	Italy	Not implemented	
	Latvia	Not implemented	D 1' '. 1. 500 W
	Portugal	Limited implementation	Power limited to 500 mW e.i.r.p.
	Romania	Not implemented	***
	Slovak Republic	Not implemented	Under study
	Spain	Not implemented	
	Sweden	Limited to 25 mW e.i.r.p.	Military band
nnex 11 Band B1			
RFID			
865-868 MHz			
	Belgium	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Greece	Not implemented	
	Ireland	Not implemented	Planned
	Italy	Not implemented	Planned
	Latvia	Not implemented	
	Lithuania	Not implemented	Under study
	Luxembourg	Not implemented	
	Norway	Not implemented	
	Romania	Not implemented	
	Slovenia	Not implemented	Planned
	Spain	Not implemented	
	The Netherlands	Not implemented	Planned 2005

Annex	Country	Restriction	Reason/remark
Annex 11 Band B2			
RFID			
865.6-867.6 MHz			
003.0-007.0 WIIIZ	Belgium	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Cyprus	Not implemented	
	France	Implementation planned with derogation.	Tactical Radio Relay
		Derogation: operation not allowed within a	•
		20 km radius from military camps in France	
		(see list of military camps with geographical coordinates in national radio interface specifical	etion)
	Greece	Not implemented	ation)
	Ireland	Not implemented	Planned
	Italy	Not implemented	Planned
	Latvia	Not implemented	Tallieu
	Lithuania	Not implemented	Under study
	Luxembourg	Not implemented	onder study
	Norway	Not implemented	
	Romania	Not implemented	
	Slovenia	Not implemented	Planned
	Spain	Not implemented	
	The Netherlands	Not implemented	Planned 2005
	Turkey	Planned	Implemented after SRD Ordinance is revised
Annex 11 Band B3			
RFID 865.6-868.0 MHz			
	Belgium	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Cyprus	Not implemented	
	Greece	Not implemented	
	Ireland	Not implemented	Planned
	Italy	Not implemented	Planned
	Latvia	Not implemented	
	Lithuania	Not implemented	Under study
	Luxembourg	Not implemented	
	Norway	Not implemented	
	Romania	Not implemented	
	Slovenia	Not implemented	Planned
	Spain	Not implemented	
	The Netherlands	Not implemented	Planned 2005
	Turkey	Planned	Implemented after SRD Ordinance is revised
Annex 12 Band A			
Wireless applicati 402-405 MHz	ons in Healthcare		
TOM TOO WILL	Croatia	Not implemented	
	Romania	Not implemented	
		*	
Annex 12 Band B			
Wireless applicati 9-315 kHz	ons in Healthcare		
<del></del>	Bulgaria	Not implemented	Planned
	Croatia	Not implemented	
	Italy	Not implemented	Planned
	Latvia	Not implemented	
	Portugal	Limited to 9-135 kHz	Military applications
	Romania	Not implemented	
	Serbia & Montenegro	Not implemented	
	Spain	Not implemented	
	Sweden	Not implemented	

Annex	Country	Restriction	Reason/remark		
	Turkey United Kingdom	Planned Limited to 9-185 kHz	Implemented after SRD Ordinance is revised Full implementation planned		
Annex 12 Ban	d C				
Wireless app 315-600 kHz	lications in Healthcare				
010 000 1111	Austria	Not implemented			
	Belgium	Not implemented			
	Bulgaria	Not implemented			
	Croatia	Not implemented			
	Cyprus	Not implemented			
	France	Not implemented			
	Greece	Not implemented			
	Ireland	Not implemented	Under study		
	Italy	Not implemented	Planned		
	Latvia	Not implemented	TT 1 1		
	Lithuania	Not implemented	Under study		
	Luxembourg	Not implemented			
	Norway Romania	Not implemented  Not implemented			
	Serbia & Montenegro	Not implemented			
	Slovenia	Not implemented	Planned		
	Spain	Not implemented	1 fairned		
	The Netherlands	Not implemented	Under study		
	Turkey	Planned	Implemented after SRD Ordinance is revised		
	·				
Annex 12 Ban Wireless appl 30.0-37.5 MH	ications in Healthcare				
	Austria	Not implemented			
	Belgium	Not implemented			
	Bulgaria	Not implemented			
	Croatia	Not implemented			
	Czech Republic	Not implemented	Other services in the band		
	Cyprus	Not implemented			
	France	Not implemented			
	Greece	Not implemented			
	Iceland	Not implemented			
	Ireland	Not implemented	Under study		
	Italy	Not implemented	Planned		
	Latvia	Not implemented			
	Liechtenstein	Not implemented	** 1 1		
	Lithuania	Not implemented  Not implemented	Under study		
	Luxembourg Norway	Not implemented  Not implemented			
	Portugal	Not implemented  Not implemented			
	Romania	Not implemented			
	Slovak Republic	Not implemented	Under study		
	Slovak Republic Slovenia	Not implemented	Planned		
	Spain	Not implemented			
	Sweden	Not implemented	Planned		
	Switzerland	Not implemented	Military band		
	The Netherlands	Not implemented			
	Turkey	Planned	Implemented after SRD Ordinance is revised		
Annex 12 Ban					
Wireless app 12.5-20.0 MH	lications in Healthcare Hz				
	Austria	No info			
	Belgium	No info			
	Bosnia & Herzegovina	No info			
	Bulgaria	No info			
	Croatia	No info			

Annex	Country	Restriction	Reason/remark
	Cyprus	No info	
	Czech Republic	No info	
	Estonia	No info	
	France	No info	
	Germany	No info	
	Greece	No info	
	Hungary	Not implemented	Planned
	Iceland	No info	
	Italy	No info	
	Ireland	No info	
	Latvia	No info	
	Liechtenstein	No info	
	Lithuania	No info	
	Luxembourg	No info	
	Macedonia (FYR of)	No info	
	Malta	No info	
	Norway	Not implemented	
	Poland	No info	
	Portugal	No info	
	Romania	No info	
	Serbia & Montenegro	No info	
	Slovak Republic	No info	
	Slovenia	No info	
	Spain	No info	
	Sweden	No info	
	Switzerland	Not implemented	Planned 2007
	The Netherlands	No info	Financia 2007
	Turkey	Planned	Implemented after SRD Ordinance is revised
	United Kingdom	No info	implemented after SKD Ordinance is revised
Annex 13 Band A			
	Croatia	Individual license required	
	Croatia Romania	Individual license required Not implemented	
Wireless Audio 863-865 MHz		Individual license required Not implemented Channel bandwidths ≤300 kHz	UK will be altering its regulations to align with new 70-03 which no longer has this restriction
863-865 MHz	Romania	Not implemented	
863-865 MHz  Annex 13 Band B  Wireless Audio	Romania	Not implemented	
863-865 MHz  Annex 13 Band B  Wireless Audio	Romania United Kingdom	Not implemented Channel bandwidths ≤300 kHz	no longer has this restriction
863-865 MHz  Annex 13 Band B  Wireless Audio	Romania United Kingdom Bulgaria	Not implemented Channel bandwidths ≤300 kHz  Not implemented	
863-865 MHz  Annex 13 Band B  Wireless Audio	Romania United Kingdom Bulgaria Croatia	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required	no longer has this restriction
863-865 MHz  Annex 13 Band B  Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned
Annex 13 Band B Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented	no longer has this restriction
863-865 MHz  Annex 13 Band B  Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented Not implemented Not implemented	no longer has this restriction  Planned
863-865 MHz  Annex 13 Band B	Romania United Kingdom  Bulgaria Croatia Greece Italy	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented	no longer has this restriction  Planned
Annex 13 Band B Wireless Audio 864.8-865 MHz  Annex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented Not implemented Not implemented	no longer has this restriction  Planned
nnex 13 Band B Wireless Audio 864.8-865 MHz	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented Not implemented Not implemented	no longer has this restriction  Planned
nnex 13 Band B Wireless Audio 864.8-865 MHz nnex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented Not implemented Not implemented	no longer has this restriction  Planned
nnex 13 Band B Wireless Audio 864.8-865 MHz nnex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented Not implemented Not implemented Not implemented	no longer has this restriction  Planned
nnex 13 Band B Wireless Audio 864.8-865 MHz nnex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented Not implemented Not implemented Not implemented Not implemented Not implemented	no longer has this restriction  Planned
annex 13 Band B Wireless Audio 864.8-865 MHz Annex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium Bulgaria	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned
annex 13 Band B Wireless Audio 864.8-865 MHz Annex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium Bulgaria Croatia	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned
Annex 13 Band B Wireless Audio 864.8-865 MHz  Annex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium Bulgaria Croatia Finland	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned
Annex 13 Band B Wireless Audio 864.8-865 MHz  Annex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium Bulgaria Croatia Finland France Greece	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned  Planned
annex 13 Band B Wireless Audio 864.8-865 MHz Annex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium Bulgaria Croatia Finland France Greece Ireland	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned
Annex 13 Band B Wireless Audio 864.8-865 MHz  Annex 13 Band C Wireless Audio	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium Bulgaria Croatia Finland France Greece Ireland Italy	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned  Planned  Under study
Annex 13 Band B Wireless Audio 864.8-865 MHz	Romania United Kingdom  Bulgaria Croatia Greece Italy Latvia Romania  Austria Belgium Bulgaria Croatia Finland France Greece Ireland	Not implemented Channel bandwidths ≤300 kHz  Not implemented Individual license required Not implemented	no longer has this restriction  Planned  Planned  Under study

Annex	Country	Restriction	Reason/remark	
	Portugal	Not implemented		
	Romania	Not implemented		
	Slovak Republic	Not implemented	Fixed service	
	Spain	Not implemented		
	The Netherlands	Channel spacing 600 kHz	max 50 mW e.r.p.	
	Turkey	Planned	Implemented after SRD Ordinance is revised	
Annex 13 Band D				
Wireless Audio 87.5-108.0 MHz				
	Austria	Not implemented		
	Belgium	Not implemented		
	Bulgaria	Not implemented		
	Croatia	Not implemented		
	Cyprus	Not implemented		
	Czech Republic	Not implemented		
	Denmark	Not implemented		
	France	Not implemented		
	Greece	Not implemented		
	Hungary	Not implemented	Planned	
	Ireland	Not implemented		
	Italy	Not implemented		
	Latvia	Not implemented		
	Lithuania	Not implemented		
	Luxembourg	Not implemented		
	Malta	Not implemented		
	Macedonia (FYR of)	Not implemented		
	Norway	Not implemented		
	Poland	Not implemented		
	Romania	Not implemented		
	Serbia & Montenegro	Not implemented		
	Slovak Republic	Not implemented	Under study	
	Slovenia	Not implemented		
	Spain	Not implemented		
	Sweden	Not implemented		
	The Netherlands	Not implemented		
	Turkey	Planned	Implemented after SRD Ordinance is revised	
	United Kingdom	Not implemented	-	

### List of abbreviations as used in this document

AVI Automatic Vehicle Identification for Railways

CEPT European Conference of Postal and Telecommunications Administrations

CB Citizen Band (27 MHz)
CT2 Cordless Telephones

EAS Electronic Article Surveillance

ECC Electronic Communications Committee
EFIS ERO Frequency Information System

ENG/OB Electronic News Gathering / Outside Broadcasting

ERC European Radiocommunications Committee

ERM Electromagnetic Compatibility and Radio Spectrum Matters

ERO European Radiocommunications Office

ETSI European Telecommunications Standard Institute

FHSS Frequency Hopping Spread Spectrum

ISM Industrial, Scientific and Medical applications

LAN Local Area Network
LBT Listen Before Talk

(O)RLAN Outdoor Radio Local Area Network

PMR Professional Mobile Radio / Private Mobile Radio

R&TTE Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999

on radio equipment and telecommunications terminal equipment and the mutual

recognition of their conformity

RFID Radio Frequency Identification
RTTT Road Transport & Traffic Telematics

SRD Short Range Devices
TETRA Terrestrial Trunked Radio
WAS Wireless Access Systems
WLL Wireless Local Loop

## **Duty cycle categories**

For the purposes of this Recommendation the duty cycle is defined as the ratio, expressed as a percentage, of the maximum transmitter "on" time on one carrier frequency, relative to a one hour period unless otherwise mentioned in the relevant Annex.

For pre-programmed devices the maximum transmitter "on" time and minimum "off" time are given in the following table. These limits are advisory with a view to facilitating sharing between systems in the same frequency band

	Name	Transmitting time/Full cycle <sup>1</sup>	Maximum transmitter "on" time (seconds)	Minimum transmitter "off" time (seconds)	Explanation
1	Very Low	<0.1%	0.72	0.72	For example, 5 transmissions of 0.72 seconds within one hour.
2	Low	<1.0%	3.6	1.8	For example, 10 transmissions of 3.6 seconds within one hour.
3	High	<10%	36	3.6	For example, 10 transmissions of 36 seconds within one hour
4	Very High	Up to 100%	-	-	Typically continuous transmissions but also those with a duty cycle greater than 10%

## **Document History**

	Text	Page	Edition	
Text of the ERC Recommendation changed to align with the R&TTE Directive			October 2005	
Text of the ERC Recommendation changed to align with the R&TTE Directive   4   October 2005  Rearranged text of Recommendation 18 October 2005				
Annex 1	Non-specific Short Range Devices	<mark>6</mark>	October 2006	
Annex 2	Devices for Detecting Avalanche Victims	8	April 2004	
Annex 3	Wideband Data Transmission systems	9	August 2005	
Annex 4	Railway applications	10	February 2002	
Annex 5	Road Transport & Traffic Telematics (RTTT)	12	February 2004	
Annex 6	Equipment for Detecting Movement and Equipment for Alert	13	April 2004	
Annex 7	Alarms	14	October 2006	
Annex 8	Model Control	15	May 2003	
Annex 9	Inductive applications	<mark>16</mark>	October 2006	
Annex 10	Radio microphones and Assistive Listening Devices	<mark>19</mark>	October 2006	
Annex 11	Radio frequency identification applications	20	October 2004	
Annex 12	Wireless applications in Healthcare	<mark>22</mark>	October 2006	
Annex 13	Wireless Audio applications	23	November 2005	
Appendix 1	Implementation Status	<mark>24</mark>	November 2006	
Appendix 2	List of relevant ECC/ERC Decisions, Recommendations and ETSI Standards	27	October 2005	
Appendix 3	National restrictions	<mark>30</mark>	November 2006	