





ERC Recommendation

Relating to the use of Short Range Devices (SRD)

Tromsø 1997

Subsequent amendments

9 October 2012

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

Please Note

Implementation status page 24

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 ECO (thomas.weber@eco.cept.org) 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 European 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 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. SRDs are not considered a "Radio Service" under the ITU Radio Regulations (Article 1).

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."

"The CEPT has considered the use of SRD devices on board aircraft and it has concluded that, from the CEPT regulatory perspective, such use is allowed under the same conditions provided in the relevant Annex of Recommendation 70-03. For aviation safety aspects, the CEPT is not the right body to address this matter which remains the responsibility of aircraft manufacturers or aircraft owners who should consult with the relevant national or regional aviation bodies before the installation and use of such devices on board aircraft."

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 ECC/ERC Decisions and ETSI standards.

Applications for certain short range devices within this recommendation are subject to EC Decisions including Decision 2006/771/EC and EU/EFTA Member States are obliged to implement the EC Decision in all these cases. These applications are identified by a footnote under "Additional Information" in the relevant Annex which also mentions any derogation that has been agreed. A list of relevant EC Decisions can be found in Appendix 2.

Member States of EU/EFTA may allow, at national level, equipment to operate under more permissive conditions than specified in the EC Decision if permitted by that EC Decision. However, in this case such equipment could not operate throughout the European Community without restrictions and would therefore be considered as 'Class 2' equipment under the classification in the 1999/5/EC (R&TTE) Directive.

This Recommendation is designed to assist with frequencies available within CEPT member countries for putting short range device radio equipment into service. It is not intended to limit the possibility for placement of product on the market in those Countries which have adopted the RTTE Directive.

ERC RECOMMENDATION OF 9 OCTOBER 2012 ON RELATING TO THE USE OF SHORT RANGE DEVICES (SRD)

"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 radio services;
- b) that in general SRDs cannot claim protection from 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 ECO based on information from Administrations,
- 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;
- I) that EU/EFTA Member States are required to implement the EC Decisions listed in Appendix 2 of this recommendation and that for those countries a "Y" indication in the implementation table means that the least restrictive regulatory parameters of any of the respective EC Decisions listed in Appendix 2 applies. The parameters in the EC Decisions listed in Appendix 2 may be subject to a derogation for an individual country and this should be detailed in Appendix 3.

recommends

- 1) 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 documentation database (http://www.ecodocdb.dk) for the up to date position on the implementation of this and other ECC/ERC deliverables

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 be preferably used above 2.4 GHz.

This annex also includes references to the generic UWB regulation which was primarily developed to allow communication applications using UWB technology in bands below 10.6 GHz; but enables also other types of radio applications.

Table 1: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	6765-6795 kHz	42 dBµA/m at 10m	No requirement	No spacing		The frequency band is also identified in Annex 9
b	13.553-13.567 MHz	42 dBµA/m at 10m	No requirement	No spacing		The frequency band is also identified in Annex 9
С	26.957-27.283 MHz	42 dBμA/m at 10m 10 mW e.r.p	No requirement	No spacing		The frequency band is also identified in Annex 9
d	40.660-40.700 MHz	10 mW e.r.p.	No requirement	No spacing		
е	138.20-138.45 MHz	10 mW e.r.p.	< 1.0 % duty cycle (note 1)	No spacing		
f	433.050-434.790 MHz	10 mW e.r.p.	< 10 % duty cycle (note 1)	No spacing		
f1	433.050-434.790 MHz	1 mW e.r.p. -13 dBm/10 kHz	No requirement except for (note 4bis)	No spacing		Power density limited to -13 dBm/10 kHz for wideband modulation with a bandwidth greater than 250 kHz
f2	434.040-434.790 MHz	10 mW e.r.p.	No requirement except for (note 4bis)	Up to 25 kHz		
g	863-870 MHz (note 3 and 4)	≤ 25 mW e.r.p.	≤ 0.1% duty cycle or LBT (note 1 and 5)	≤ 100 kHz for 47 or more channels		FHSS

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
				(note 2)		
		≤ 25 mW e.r.p. Power density: - 4.5 dBm/100 kHz (note 7)	≤ 0.1% duty cycle or LBT+AFA (note 1, 5 and 6)	No spacing		DSSS and other wideband techniques other than FHSS
		≤ 25 mW e.r.p.	≤ 0.1% duty cycle or LBT+AFA (note 1 and 5)	≤ 100 kHz, for 1 or more channels modulation bandwidth ≤ 300 kHz (note 2)		Narrow /wide-band modulation
g1	868.000-868.600 MHz (note 4)	≤ 25 mW e.r.p.	≤ 1% duty cycle or LBT+AFA (note 1)	No spacing, for 1 or more channels (note 2)		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% duty cycle or LBT+AFA (note 1)	No spacing, for 1 or more channels (note 2)		Narrow / wide-band modulation. No channel spacing, however the whole stated frequency band may be used
g3	869.400-869.650 MHz	≤ 500 mW e.r.p.	≤ 10% duty cycle or LBT+AFA (note 1)	No spacing, for 1 or more channels		Narrow / wide-band modulation The whole stated frequency band may be used as 1 channel for high speed data transmission
	869.700-870.000 MHz	≤ 5 mW e.r.p.	No requirement	No spacing		Narrow / wide-band modulation.
g4	(note 4bis)	≤ 25 mW e.r.p.	up to 1% duty cycle or LBT+AFA (note 1)	for 1 or more channels		No channel spacing, however the whole stated frequency band may be used
h	2400.0-2483.5 MHz	10 mW e.i.r.p.	No requirement	No spacing		The frequency band is also identified in Annexes 3 and 6
i	5725-5875 MHz	25 mW e.i.r.p.	No requirement	No spacing		

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
j	24.00-24.25 GHz	100 mW e.i.r.p.	No requirement	No spacing		The frequency band is also identified in Annex 5
k	61.0-61.5 GHz	100 mW e.i.r.p.	No requirement	No spacing		
k 1	57-64 GHz	100 mW e.i.r.p., a max. transmitter output power of 10 mW, and a power density limited to 13 dBm/MHz e.i.r.p. applies	No requirement	No spacing		
I	122-123 GHz	100 mW e.i.r.p.	No requirement	No spacing		
m	244-246 GHz	100 mW e.i.r.p.	No requirement	No spacing		
n	3.1-4.8 GHz 6 - 9 GHz	*	*	*	ECC/DEC/(06)04	Generic UWB regulation * See detailed requirements in the related ECC Decisions

- Note 1: When either duty cycle, Listen Before Talk (LBT) or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate technical means. For LBT devices without Adaptive Frequency Agility (AFA), or equivalent techniques, the duty cycle limit applies.
 - For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used.
- Note 2: The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz.
- Note 3: Sub-bands for alarms are excluded (see ERC/REC 70-03 Annex 7).
- Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz.

 Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz.
 - In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
- Note 4bis: Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission.
- Note 5: Duty cycle may be increased to 1% if the band is limited to 865-868 MHz.
- Note 6: For wide-band techniques, other than FHSS, operating with a bandwidth of 200 kHz to 3 MHz, the 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: 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	sub-bands c) to g4)
EN 300 330	sub-bands a) to c)
EN 300 440	sub-bands h) i) and j)
EN 305 550	sub-bands k), k1), l) and m)
EN 302 065	subband n)
EN 302 500	subband n) (only 6-9 GHz).

Technical parameters also referred to in the harmonised standard

Listen before talk (LBT) with Adaptive Frequency Agility (AFA) technique feature may be used instead of duty cycle. LBT is defined in EN 300 220.

Audio and voice are defined in EN 300 220.

Frequency issues

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

Sub-band g)

Certain channels may be occupied by RFID operating at higher powers (See Annex 11 for further details). To minimise the risk of interference from RFID, SRDs should use LBT with AFA or observe suitable separation distances. (In the high power RFID channels typically these may vary from 918 m (indoor) to 3.6 km (rural outdoor). In the remaining 2.2 MHz, where tags at -20 dBm e.r.p. occupy the spectrum, this may vary from 24 m (indoor) to 58 m (rural outdoor)).

The adjacent frequency bands below 862 MHz and above 870 MHz may be used by high power systems. Manufacturers should take this into account in the design of equipment and choice of power levels

ANNEX 2: TRACKING, TRACING AND DATA ACQUISITION

Scope of Annex

This annex covers frequency bands and regulatory as well as informative parameters recommended for a number of specific devices including:

- Detecting avalanche victims;
- Meter Reading;
- Asset Tracking and Tracing.

Table 2: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	456.9-457.1 kHz	7 dBμA/m at 10 m	No requirement	Continuous wave (CW) – no modulation.	ECC/DEC/(04)01	Detection of avalanche victims. Note: Centre frequency is 457 kHz
b	169.4-169.475 MHz	500 mW e.r.p.	< 10% duty cycle	Max 50 kHz	ECC/DEC/(05)02	Meter Reading
С	169.4-169.475 MHz	500 mW e.r.p.	< 1% duty cycle	Max 50 kHz	ECC/DEC/(05)02	Asset Tracking and Tracing

Additional Information

Harmonised Standards

EN 300 718 Sub-band a)

EN 300 220 Sub-bands b) and c)

Frequency issues

No information

Technical parameters also referred to in the harmonised standard

No information

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) within the bands 2400-2483.5 MHz and for Multiple-Gigabit WAS/RLAN Systems within the band 57-66 GHz.

Table 3: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channle spacing	ECC/ERC Decision	Notes
а	2400.0–2483.5 MHz	100 mW e.i.r.p.	Adequate spectrum sharing mechanism (e.g. Listen-before-Talk, Detect-And-Avoid) shall be implemented by the equipment	No spacing		For wide band modulations other than FHSS, the maximum e.i.r.p. density is limited to 10 mW/MHz
b	57–66 GHz	40 dBm mean e.i.r.p. This refers to the highest power level of the transmitter power control range during the transmission burst if transmitter power control is implemented	Adequate spectrum sharing mechanism (e.g. Listen-before-Talk, Detect-And-Avoid) shall be implemented by the equipment.	No spacing		Fixed outdoor installations are not allowed. The maximum mean e.i.r.p density is limited to 13 dBm/MHz. Point-to-point links of the Fixed Service are regulated by ECC/REC/(05)02 and ECC/REC/(09)01

Additional Information

Harmonised Standards

EN 300 328 sub-band a) EN 302 567 sub-band b).

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.

The sub-bands below are intended for the following applications:

- band a) Balise tele-powering and down-link (train to ground) systems including Eurobalise and activation of the Loop / Euroloop;
- band b) Balise up-link (ground to train) systems including Eurobalise;
- band c) Loop up-link (ground to train) systems including Euroloop;
- band d) Obstruction/Vehicle detection via radar sensor at railway level crossings.

Table 4: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	27.090-27.100 MHz	42 dBμA/m at 10 m	No requirement	No spacing		Tele-powering and Down-link signal for Balise / Eurobalise. May also be optionally used for the activation of the Loop / Euroloop. Note: Centre frequency is 27.095 MHz
b	984-7484 kHz	9 dBμA/m at 10m	<1% duty cycle	No spacing		Transmitting only on receipt of a Balise / Eurobalise telepowering signal from a train. Note: Centre frequency is 4234 kHz
С	7.3-23.0 MHz	-7 dBμA/m at 10m	No requirement	No spacing		Maximum field strength specified in a bandwidth of 10 kHz, spatially averaged over any 200m length of the loop. Transmitting only in presence of trains. Spread Spectrum Signal, Code Length: 472 Chips. Note: Centre frequency is 13.547 MHz
d	76-77 GHz	55 dBm peak e.i.r.p.	No requirement	No spacing		Obstruction/Vehicle detection via radar Sensor at railway level crossings. 50 dBm average power or 23.5 dBm average power for pulse radar. The frequency band is also included in Annex 5

Additional Information

Harmonised Standards

EN 302 608 sub-bands a) and b)

EN 302 609 sub-band c)

EN 301 091 sub-band d) (under revision)

Frequency issues

No information

Technical parameters also referred to in the harmonised standard

Spectrum masks for Eurobalise and Euroloop are defined in ETSI standards EN 302 608 and EN 302 609, in accordance with the elements given in ECC Report 98.

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) including all types of communications between vehicles (e.g. car-to-car), and between vehicles and fixed locations (e.g. car-to-infrastructure) as well as radar system installations to be used in ground based vehicles.

Table 5: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	5795-5805 MHz	2 W e.i.r.p. 8 W e.i.r.p.	No requirement			Individual license may be required for the higher power of 8 W systems
b	5805-5815 MHz	2 W e.i.r.p. 8 W e.i.r.p.	No requirement			Individual license required. Individual license may be required for the higher power of 8 W systems
С	76-77 GHz	55 dBm peak e.i.r.p.	No requirement	No spacing		50 dBm average power or 23.5 dBm average power for pulse radar only. For vehicle radars
d1	21.65-26.65 GHz	*	*	*	ECC/DEC/(04)10	For automotive Short Range Radars (SRR) * See detailed requirements in related ECC Decision. New SRR equipment may only be placed onto the market until 1 July 2013
d2	24.25 -26.65 GHz	*	*	*	ECC/DEC/(04)10	For automotive Short Range Radars (SRR) See detailed requirements in related ECC Decision. SRR equipment may only be placed onto the market until 1 January 2018. This date is extended by 4 years for SRR equipment mounted on motor vehicles for which vehicle conformity compliance has been granted before 1 January 2018
е	77-81 GHz	*	*	*	ECC/DEC/(04)03	For automotive Short Range Radars (SRR) * See detailed requirements in related ECC Decision
f1	24.050-24.075 GHz	100 mW e.i.r.p.	No requirement			For vehicle radars

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
	24.075-24.150 GHz	0.1 mW e.i.r.p.	No requirement			For vehicle radars
		100 mW e.i.r.p.	≤ 4µs/40 kHz dwell time every 3ms			For automotive radars The spectrum access and mitigation requirement is given for devices mounted behind a bumper. If mounted without a bumper, the requirement should be 3µs/40kHz maximum dwell time every 3ms.
f2						A requirement for minimum frequency modulation range (applicable to FMCW or step frequency signals) or minimum instantaneous bandwidth (applicable to pulsed signal) of 250 kHz applies in addition to the requirement on maximum dwell time
			≤ 1ms/40 kHz dwell time every 40ms			For automotive radars The spectrum access and mitigation requirement is given for devices mounted either behind a bumper or mounted without a bumper. A requirement for minimum frequency modulation range (applicable to FMCW or step frequency signals) or minimum instantaneous bandwidth (applicable to pulsed signal) of 250 kHz applies in addition to the requirement on maximum dwell time
f3	24.150-24.250 GHz	100 mW e.i.r.p.	No requirement			For vehicle radars
g1	24.250-24.495 GHz	-11 dBm e.i.r.p.	≤ 0.25%/s/25 MHz duty cycle			For automotive radars The activity of the Wideband Low Activity Mode
g2	24.495-24.500 GHz	-8 dBm e.i.r.p.	≤ 1.5%/s/5 MHz duty cycle			(WLAM) is limited to avoid the risk of interference and this mode is only activated in specific configurations
g3	24.250-24.500 GHz	+20 dBm e.i.r.p.	≤ 5.6%/s/25 MHz duty cycle			as a complementary to designation f1 to f3 as described in ECC Report 164
		+16 dBm e.i.r.p.	≤ 2.3%/s/25 MHz duty cycle			

Additional Information

Harmonised Standards

EN 300 674 sub-bands a) and b)
EN 301 091 sub-band c)
EN 302 288 sub-band d1) and d2)
EN 302 264 sub-band e)
EN 302 858 sub-bands f1) to f3) and g1) to g3) (under revision).

ANNEX 6: RADIODETERMINATION APPLICATIONS

Scope of Annex

This annex covers frequency bands and regulatory as well as informative parameters recommended for SRD radiodetermination applications including Equipment for Detecting Movement and Alert. Radiodetermination is defined as the determination of the position, velocity and/or other characteristics of an object, or the obtaining of information relating to these parameters, by means of the propagation properties of radio waves.

Table 6: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	2400.0-2483.5 MHz	25 mW e.i.r.p.	No requirement	No spacing	ERC/DEC/(01)08	
b	9200-9500 MHz	25 mW e.i.r.p.	No requirement	No spacing		
С	9500-9975 MHz	25 mW e.i.r.p.	No requirement	No spacing		
d	10.5-10.6 GHz	500 mW e.i.r.p.	No requirement	No spacing		
е	13.4-14.0 GHz	25 mW e.i.r.p.	No requirement	No spacing		
f	24.05-24.25 GHz	100 mW e.i.r.p.	No requirement	No spacing		The frequency band 24.0–24.25 GHz is identified with the same emission parameters in Annex 1 band j
g	4.5-7.0 GHz	-41.3 dBm/MHz e.i.r.p. outside the enclosed test tank structure	No requirement	No spacing		For Tank Level Probing Radar (TLPR)
h	8.5-10.6 GHz	-41.3 dBm/MHz e.i.r.p. outside the enclosed test tank structure	No requirement	No spacing		For Tank Level Probing Radar (TLPR) The radiated unwanted emissions within the frequency band 10.6-10.7 GHz outside the test tank enclosure shall be less than -60 dBm/MHz e.i.r.p.
i	24.05-27.00 GHz	-41.3 dBm/MHz e.i.r.p. outside the enclosed test tank structure	No requirement	No spacing		For Tank Level Probing Radar (TLPR)
j	57-64 GHz	-41.3 dBm/MHz e.i.r.p. outside the enclosed	No requirement	No spacing		For Tank Level Probing Radar (TLPR)

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
	75.05.011-	test tank structure	No requirement	No enceine		For Tools Lovel Drobing Dodor (TLDD)
k	75-85 GHz	-41.3 dBm/MHz e.i.r.p. outside the enclosed test tank structure	No requirement	No spacing		For Tank Level Probing Radar (TLPR)
I	6.0-8.5 GHz	*	*	*	ECC/DEC/(11)02	For Industrial Level Probing Radar (LPR) *See detailed requirements in related ECC Decision
m	24.05-26.5 GHz	*	*	*	ECC/DEC/(11)02	For Industrial Level Probing Radar (LPR) *See detailed requirements in related ECC Decision
n	57-64 GHz	*	*	*	ECC/DEC/(11)02	For Industrial Level Probing Radar (LPR) *See detailed requirements in related ECC Decision
o	75-85 GHz	*	*	*	ECC/DEC/(11)02	For Industrial Level Probing Radar (LPR) *See detailed requirements in related ECC Decision
р	17.1-17.3 GHz	+26 dBm e.i.r.p.	DAA	No spacing		For Ground Based Synthetic Aperture Radar (GBSAR) Specific requirements for the radar antenna pattern and for the implementation of Detect And Avoid (DAA) technique apply as described in EN 300 440
q	30 MHz-12.4 GHz	*	*	*	ECC/DEC/(06)08	For Ground- and Wall- Probing Radar (GPR/WPR) imaging systems, subject to an appropriate licensing regime * See detailed requirements in related ECC Decision
r	2.2-8 GHz	*	*	*	ECC/DEC/(07)01	For Material Sensing Devices. * See detailed requirements in related ECC Decision

Additional Information

Harmonised Standards

EN 300 440 sub-bands a), b), c), d), e), f), p)

EN 302 372 sub-bands g), h), i), j), k) EN 302 729 sub-bands l), m), n), and o)

EN 302 066 sub-band q)

EN 302 435 sub-band r)

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 sub-bands below are intended for the following applications:

- Alarms in sub-bands a), b),c) and e);
- Social Alarms sub-bands d), f) and g).

Table 7: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	868.6-868.7 MHz	10 mW e.r.p.	< 1.0 % duty cycle	25 kHz		The whole frequency band may also be used as1 channel for high speed data transmissions
b	869.250-869.300 MHz	10 mW e.r.p.	< 0.1 % duty cycle	25 kHz		
С	869.650-869.700 MHz	25 mW e.r.p.	< 10 % duty cycle	25 kHz		
d	869.200-869.250 MHz	10 mW e.r.p.	< 0.1 % duty cycle	25 kHz		Social Alarms
е	869.300-869.400 MHz	10 mW e.r.p.	< 1.0 % duty cycle	25 kHz		
f	169.4750-169.4875 MHz	10 mW e.r.p.	< 0.1 % duty cycle	12.5 kHz	ECC/DEC/(05)02	Social Alarms (exclusive use)
g	169.5875-169.6000 MHz	10 mW e.r.p.	< 0.1 % duty cycle	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

No information

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.

Table 8: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	26.995, 27.045, 27.095, 27.145, 27.195 MHz	100 mW e.r.p	No requirement	10 kHz		
b	34.995-35.225 MHz	100 mW e.r.p	No requirement	10 kHz	ERC/DEC/(01)11	Only for flying models
С	40.665, 40.675, 40.685, 40.695 MHz	100 mW e.r.p	No requirement	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

No information

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, data transfer to handheld devices, automatic article identification, wireless control systems, automatic road tolling and anti-theft systems including RF anti-theft induction systems. It should be noted that other types of anti-theft systems can be operated in accordance with other relevant annexes.

Table 9: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
a1	9 - 90 kHz	72 dBµA/m at 10m (note 1)	No requirement	No spacing		In case of external antennas only loop coil antennas may be employed. Field strength level descending 3 dB/oct at 30 kHz
a2	90-119 kHz	42 dBμA/m at 10m	No requirement	No spacing		In case of external antennas only loop coil antennas may be employed
а3	119-135 kHz	66 dBµA/m at 10m (note 1)	No requirement	No spacing		In case of external antennas only loop coil antennas may be employed. Field strength level descending 3 dB/oct at 119 kHz
b	135-140 kHz	42 dBμA/m at 10m	No requirement	No spacing		In case of external antennas only loop coil antennas may be employed
С	140-148.5 kHz	37.7 dBμA/m at 10m	No requirement	No spacing		In case of external antennas only loop coil antennas may be employed
d	6765-6795 kHz	42 dBµA/m at 10m	No requirement	No spacing		
е	7400-8800 kHz	9 dBμA/m at 10m	No requirement	No spacing		
f	13.553-13.567 MHz	42 dBµA/m at 10m	No requirement	No spacing		
f1	13.553-13.567 MHz	60 dBµA/m at 10m	No requirement	No spacing		For RFID and EAS only
g	26.957-27.283 MHz	42 dBµA/m at 10m	No requirement	No spacing		
h	10.200-11.000 MHz	9 dBμA/m at 10m	No requirement	No spacing		
k	3155-3400 kHz	13.5 dBμA/m at 10m	No requirement	No spacing		In case of external antennas only loop coil antennas may be employed

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
11	148.5 kHz - 5 MHz	-15 dBμA/m at 10 m	No requirement	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)
12	5 - 30 MHz	-20 dBμA/m at 10 m	No requirement	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)
13	400 - 600 kHz	-8 dBμA/m at 10 m	No requirement	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 centre 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

Table 10: Standard frequency and time signals to be protected within 9 - 90 kHz and 119 - 135 kHz

Stations	Frequency	Protection bandwidth	Maximum field strength at 10 m	Location
MSF	60 kHz	+/-250Hz	42 dBμA/m	United Kingdom
RBU	66.6 kHz	+/-750Hz	42 dBμA/m	Russian Federation
HBG	75 kHz	+/-250Hz	42 dBμA/m	Switzerland
DCF77	77.5 kHz	+/-250Hz	42 dBμA/m	Germany
DCF49	129.1 kHz	+/-500Hz	42 dBμA/m	Germany

Additional Information

Harmonised Standards

EN 300 330 for all sub-bands EN 302 291 sub-band f).

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 a1) and a3) integral or dedicated within an area between 0.05 m^2 and 0.16 m^2 , the field strength is reduced by 10 * log (area/0.16 m^2); for an antenna area less than 0.05 m^2 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

Sub-band a3)

RFIDs operating in the frequency sub-band 119-135 kHz shall meet the spectrum mask given in EN 300 330. This will permit a simultaneous use of the various sub-bands within the range 90-148.5 kHz.

ANNEX 10: RADIO MICROPHONE APPLICATIONS INCLUDING AIDS FOR THE HEARING IMPAIRED

Scope of Annex

This annex covers frequency bands and regulatory as well as informative parameters recommended for radio microphone applications (also referred to as wireless microphones or cordless microphones) including aids for the hearing impaired (also referred to as assistive listening devices). Radio microphones are small, low power (typically 50 mW or less) transmitters designed to be worn on the body, or hand held, for the transmission of 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 hearing impaired.

Because of the difficulty in determining harmonised 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 and licensing restrictions are likely to exist and the national administration should be contacted.

The sub-bands below are intended for the following applications:

- Aids for the hearing impaired: sub-bands b), c), d), h1), h2), i)
- Radio microphones: sub-bands a), c), d), e1), e2), e3), e4), f), g).

Aids for the hearing impaired are specific radio microphone applications which capture an acoustic signal that is transmitted by radio to the hearing aid receivers.

Table 11: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	29.7-47.0 MHz	10 mW e.r.p.	No requirement	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 harmonised military bands
b	173.965-174.015 MHz	2 mW e.r.p.	No requirement	50 kHz		Aids for the hearing impaired
С	863-865 MHz	10 mW e.r.p.	No requirement	No spacing		
d	174-216 MHz	50 mW e.r.p.	No requirement	No spacing		On a tuning range basis. Individual licence required

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
e1	470-786 MHz	50 mW e.r.p.	No requirement	No spacing		On a tuning range basis. Individual licence required
e2	786-789 MHz	12 mW e.r.p.	No requirement	No spacing		On a tuning range basis. Individual licence required. See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
e3	823-826 MHz	20 mW e.i.r.p. 100 mW e.i.r.p.	No requirement	200 kHz		Individual licence required. 100 mW restricted to body worn microphones. See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
e4	826-832 MHz	100 mW e.i.r.p.	No requirement	200 kHz		Individual licence required. See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
f	1785-1795 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	No requirement	No spacing		Individual licence required. 50 mW restricted to body worn microphones
g	1795-1800 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	No requirement	No spacing		50 mW restricted to body worn equipment
	169.4000-169.4750 MHz	10 mW e.r.p.	No requirement	Max 50 kHz	ECC/DEC/(05)02	Aids for the hearing impaired. (Personal Hearing Aid System)
h1		500 mW e.r.p.	No requirement	Max 50 kHz	ECC/DEC/(05)02	Aids for the hearing impaired. (Public Hearing Aid System) Individual licence may be required.
	169.4875-169.5875 MHz	10 mW e.r.p.	No requirement	Max 50 kHz	ECC/DEC/(05)02	Aids for the hearing impaired. (Personal Hearing Aid System)
h2		500 mW e.r.p.	No requirement	Max 50 kHz	ECC/DEC/(05)02	Aids for the hearing impaired. (Public Hearing Aid System) Individual licence may be required.
i	169.4-174.0 MHz	10 mW e.r.p.	No requirement	Max 50 kHz		Aids for the hearing impaired. On a tuning range basis

Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
					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 MHz when developing their national frequency table

Additional Information

Harmonised Standards

EN 300 422 all sub-bands EN 301 357 sub-band c)

Frequency Issues

Sub-band d)

Some countries may allow radio microphones and aids for the hearing impaired to operate in parts of this band with maximum transmitter power of 10 mW e.r.p. and without individual licence. Detailed information can be obtained from national administrations.

Sub-bands e2), e3), e4):

Some national administrations which have not introduced mobile/fixed communication networks (MFCN) in accordance with Decision ECC/DEC/(09)03 may authorise larger parts or the whole of the band 786-862 MHz to be used by radio microphones.

Technical parameters also referred to in the harmonised standard

No information

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.

Table 12: Regulatory parameters

F	requency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
a1	2446-2454 MHz	≤500 mW e.i.r.p.	No requirement	No spacing		
a2	2446-2454 MHz	>500 mW-4 W e.i.r.p	≤ 15% duty cycle FHSS techniques should be used	No spacing		Power levels above 500 mW are restricted to be used 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).
b1	865.0-865.6 MHz	100 mW e.r.p.	No requirement	200 kHz		
b2	865.6-867.6 MHz	2 W e.r.p.	No requirement	200 kHz		
b3	867.6-868.0 MHz	500 mW e.r.p.	No requirement	200 kHz		

Additional Information

Harmonised Standards

EN 300 440 Sub-band a1) and a2)

EN 300 761 Sub-band a1)

EN 302 208 Sub-bands b1), b2) and b3).

Frequency issues

Sub-band a2)

To assist enforcement authorities any emissions from an RFID device when measured outside of the building at a distance of 10 metres shall not exceed the field strength from 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.

Sub-bands b1), b2) and b3)

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

The available channel numbers for each sub-band are:

b1: channel numbers 1 to 3

b2: channel numbers 4 to 13

b3: channel numbers 14 to 15.

Note: The same equipment is allowed to operate in several sub-bands.

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

Technical parameters also referred to in the harmonised standard

Sub-band a2)

In addition, antenna beamwidth limits shall be observed as described in the standard EN 300 440.

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.

ANNEX 12: ACTIVE MEDICAL IMPLANTS AND THEIR ASSOCIATED PERIPHERALS

Scope of Annex

This annex covers frequency bands and regulatory as well as informative parameters recommended for Active Medical Implants and their associated peripherals.

Table 13: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	9-315 kHz	30 dBµA/m at 10m	< 10% duty cycle	No spacing		The application is for Ultra Low Power Active Medical Implant systems using inductive loop techniques for telemetry purposes
b	315-600 kHz	-5 dBµA/m at 10m	< 10% duty cycle	No spacing		The application is for animal implantable devices.
С	30.0-37.5 MHz	1 mW e.r.p.	< 10% duty cycle	No spacing		The application is for Ultra Low Power medical membrane implants for blood pressure measurements.
d	12.5-20.0 MHz	-7 dBμA/m at 10m	< 10% duty cycle	No spacing		The application is for ULP active animal implantable devices (ULP-AID), 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.
е	2483.5-2500 MHz	10 dBm e.i.r.p	LBT+AFA and < 10% duty cycle. The equipment shall implement a spectrum access mechanism as described in the applicable harmonised standard	1 MHz		For Low Power Active Medical Implants and associated peripherals, covered by the applicable harmonised standard. Individual transmitters may combine adjacent channels on a dynamic basis for increased bandwidth higher than 1 MHz. Peripheral units are for indoor use only.

Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
		or an equivalent			
		spectrum access			
		mechanism			

Additional Information

Harmonised Standards

EN 302 195	Sub-band a)
EN 302 536	Sub-band b)
EN 302 510	Sub-band c)
EN 300 330	Sub-band d)
EN 301 559	Sub-band e)

Frequency issues

Technical parameters also referred to in the harmonised standard

No information.

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.

Table 14: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
а	863-865 MHz	10 mW e.r.p.	No requirement	No spacing		
b	864.8-865.0 MHz	10 mW e.r.p.	No requirement	50 kHz		Narrow band analogue voice devices
С	1795-1800 MHz	20 mW e.i.r.p.	No requirement	No spacing		
d	87.5-108.0 MHz	50 nW e.r.p.	No requirement	200 kHz		

Additional Information

Harmonised Standards

EN 301 357 sub-band a) c) and d)

EN 300 220 sub-band b)

Frequency issues

Sub-band b).

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

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.

Sub-band d)

The user interface of SRD shall permit as a minimum the selection of any and all possible frequencies within the 88.1 MHz to 107.9 MHz and as a maximum 87.6 MHz to 107.9 MHz.

When audio signals are not present, apparatus must employ a transmission time out facility. Pilot tones that ensure continuity of transmission are not permitted.

APPENDIX 1: COUNTRIES FOR CLASS 1 EQUIPMENT

Annexes to ERC/REC 70-03						DNK	EST	FIN	F	D	GRC	HNG	ISL	IRL	1	LVA	LIE	LTU	LUX	MLT	HOL	NOR	POL	POR	ROU	svk	SVN	Е	SUI	S G
Annex 1 - Non-Specific SRDs																														
Annex 1A: 6765-6795 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1B: 13.553-13.567 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1C: 26.957-27.283 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1D: 40.660-40.700 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1E: 138.20-138.45 MHz	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	N	N	Υ	N	Υ	Υ	Ν	N	N	Υ	Υ	Υ	Ν	Υ	N	Υ	Υ	N	N	N	N	N Y
Annex 1F: 433.050-434.790 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1F1: 433.050-434.790 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1F2: 434.040-434.790 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1G: 863-870 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	U	L	Υ	Υ	Υ	Υ	Υ	L	Υ	N Y
Annex 1G1: 868.000-868.600 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1G2: 868.700-869.200 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1G3: 869.400-869.650 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1G4: 869.700-870.000 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1H: 2400.0-2483.5 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1I: 5725-5875 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1J: 24.00-24.25 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y L
Annex 1K: 61.0-61.5 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1K1: 57-64 GHz	N	N	N	N	N	N	N	Ν	N	Ν	N	N	N	N	Ν	N	N	N	Ν	N	Ν	N	N	N	N	N	N	N	N	N N
Annex 1L: 122-123 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1M: 244-246 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1N: 3.1-4.8 GHz } DEC/(06)04	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 1N: 6-9 GHz) ` '	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 2 - Tracking, Tracing and Data Acquisit											-																-	\square	\longrightarrow	
Annex 2A: (*457 kHz) 456.9-457.1 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	YY
Annex 2B: 169.4-169.475 MHz DEC/(05)02	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 2C: 169.4-169.475 MHz J	Υ	Υ	N	Υ	Υ	N	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 3 - Wideband Data Transmission System											_																	\vdash	—	
Annex 3A: 2400.0-2483.5 MHz	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	YY
Annex 3B: 57–66 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY
Annex 4 - Railway Applications											-																			
Annex 4A: (*27.095 MHz) 27.090-27.100 MHz	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N Y
Annex 4B: (*4234 kHz) 984-7484 kHz	Υ	Р	Υ	Р	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	N	Р	Υ	Υ	Υ	Υ	U	Υ	Υ	Υ	N Y
Annex 4C: (*13.547 MHz) 7.3-23.0 MHz	Υ	Р	Υ	N	N	Υ	Υ	Υ	Υ	Υ	N	Υ	N	Υ	N	Р	Υ	Υ	Υ	N	Р	N	Υ	Υ	Υ	U	Υ	N	Υ	N Y
Annex 4D: 76-77 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	N	ΥY
*)Center frequency for the band Highlighted yellow = not implemented			Y=im	pleme	nted			l =lin	nited	imple	ementa	ation					_	P=pla	nnec	1	Щ			<u> </u>			U=unc	der s	tudv	
-ggou / Short - Hot implomontou				P.O. 10														pic									J-4/10	20, 01		

Annexes to ERC/REC 70-03	AUT	BEL	BUL	CZE	СҮР	DNK	EST	FIN	F	D	GRC	HNG	ISL	IRL	1	LVA	LIE	LTU	LUX	MLT	HOL	NOR	POL	POR	ROU	SVK	SVN	Ε	SUI	S G
Annex 5 - Road Transport and Traffic Telematic																														
Annex 5A: 5795–5805 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	L	Υ	Υ	L	Υ	Υ	L	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	L	ΥL
Annex 5B: 5805-5815 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	L	Υ	Υ	L	Υ	Υ	L	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	L	ΥL
Annex 5C: 76-77 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 5D1: 21.65-26.65 GHz DEC(04)10	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 5D2: 24.25-26.65 GHz	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Р	N	N	N	N	N	N	N	N	N	N	Ν	Р	N N
Annex 5E: 77-81 GHz DEC(04)03	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 5F1: 24.050-24.075 GHz	Υ	Р	N	Р	N	Υ	U	Υ	N	Υ	N	Р	Υ	Υ	N	Υ	Υ	N	Υ	N	Υ	N	Υ	N	U	N	Υ	N	Υ	N Y
Annex 5F2: 24.075-24.150 GHz	Υ	Р	N	Р	N	Υ	U	Υ	N	Υ	N	Р	Υ	Υ	N	Υ	Υ	Ν	Υ	N	Υ	N	Υ	N	U	N	Υ	N	Υ	N Y
Annex 5F3: 24.150-24.250 GHz	Υ	Р	N	Р	N	Υ	U	Υ	N	Υ	N	Р	Υ	Υ	N	Υ	Υ	Ν	Υ	N	Υ	N	Υ	N	U	N	Υ	N	Υ	N Y
Annex 5G1: 24.250-24.495 GHz	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Р	Ν	N	N	N	N	N	N	N	N	N	N	Р	N N
Annex 5G2: 24.495-24.500 GHz	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Р	Ν	N	N	N	N	N	N	N	N	N	Ν	Р	N N
Annex 5G3: 24.250-24.500 GHz	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Р	N	N	N	N	N	N	N	N	N	N	N	Р	N N
Annex 6 - Radiodetermination applications																														
Annex 6A: 2400.0-2483.5 MHz DEC/(01)08	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 6B: 9200-9500 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	Υ	Υ	Υ	Υ	Υ	Ν	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Ν	Υ	N L
Annex 6C: 9500-9975 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Ν	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Ν	Υ	N L
Annex 6D:10.5-10.6 GHz	N	Υ	Υ	N	Υ	Υ	Ν	N	L	Ν	Υ	L	Υ	L	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	L L
Annex 6E:13.4-14.0 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N Y
Annex 6F: 24.05-24.25 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥL
Annex 6G: 4.5-7.0 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 6H: 8.5-10.6 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 6l: 24.05-27.0 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 6J: 57-64 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 6K: 75-85 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 6L: 6.0-8.5 GHz	N	N	N	N	N	N	Ν	N	N	Ν	N	N	N	N	Ν	Ν	Р	Ν	Υ	N	Ν	Ν	N	N	N	N	N	Ν	Р	N L
Annex 6M: 24.05-26.5 GHz	N	N	N	N	N	N	Ν	N	N	Ν	N	N	N	N	Ν	N	Р	Ν	Υ	N	Ν	Ν	N	N	N	N	N	Ν	Р	N L
Annex 6N: 57-64 GHz	N	N	N	N	N	N	Ν	N	N	Ν	N	N	N	N	Ν	N	Р	Ν	Υ	N	Ν	Ν	N	N	N	N	N	Ν	Р	N N
Annex 60: 75-85 GHz	N	N	Ν	N	N	N	Ν	Ν	Ν	Ν	N	N	N	N	Ν	Ν	Р	Ν	Ν	Ν	Ν	Ν	N	N	Ν	Ν	N	Ν	Р	N N
Annex 6P: 17.1-17.3 GHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	U	Υ	Υ	Υ	Ν	N	Р	Υ	Υ	U	Υ	Υ	Υ	Υ	Υ	N Y
Annex 6Q: 30 MHz-12.4 GHz DEC/(06)08	Р	Р	Υ	Υ	U	Υ	Υ	Υ	Р	Υ	N	Р	Υ	Р	Ν	Υ	Υ	U	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Р	Υ	N L
Annex 6R: 2.2-8.0 GHz DEC/(07)01	L	Υ	Υ	L	U	Υ	Υ	Υ	Υ	Υ	N	Р	Υ	Υ	Ν	Υ	Υ	L	Υ	N	Υ	Υ	U	Р	Υ	N	Υ	Ν	Υ	P P
Annex 7 - Alarms																														
Annex 7A: 868.6-868.7 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 7B: 869.250-869.300 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 7C: 869.650-869.700 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 7D: 869.200-869.250 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 7E: 869.300-869.400 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 7F: 169.4750-169.4875 MHz)	Υ	Υ	N	Υ	Υ	L	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 7G: 169.5875-169.6000 MHz	Υ	Υ	N	Υ	Υ	L	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Highlighted yellow = not implemented			Y=im	plemei	nted			L=lin	nited	imple	menta	ation						P=pla	annec	ł							U=und	der st	udy	

Annexes to ERC/REC 70-03	AUT	BEL	BUL	CZE	СҮР	DNK	EST	FIN	I F	D	GRC	HNG	ISL	IRL	1	LVA	LIE	LTU	LUX	MLT	HOL	NOR	POL	POR	ROU	SVK	SVN	Е	SUI	S	3
Annex 8 - Model Control																															٦
Annex 8A: 26.995,27.045,27.095,)27.145,27.195 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	7
Annex 8B: 34.995-35.225 MHz DEC/(01)11+12	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	7
Annex 8C: 40.665,40.675 40.685,40.695 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	7
Annex 9 - Inductive Applications																															ī
Annex 9A1: 9-90 kHz	Υ	Р	L	Υ	Υ	L	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	L	Υ	Υ	Р	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	abla
Annex 9A2: 90-119 kHz	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	L	Υ	Υ	Р	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	7
Annex 9A3: 119-135 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Р	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	7
Annex 9B: 135-140 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Р	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Р	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 9C 140.0-148.5 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Р	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	\Box
Annex 9D: 6765-6795 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ	
Annex 9E: 7400-8800 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 9F: 13.553-13.567 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 9F1: 13.553-13.567 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 9G: 26.957-27.283 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 9H: 10.200-11.000 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 9K: 3155-3400 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 9L1: 148.5 kHz-5 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ	
Annex 9L2: 5-30 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ	7
Annex 9L3: 400-600 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	7
Annex 10 – Radio microphone applications incl	udin	g aio	ls for	the h	earin	g imp	aire	ed																							
Annex 10A: 29.7-47.0 MHz	L	Υ	Υ	L	Υ	Υ	L	L	L	L	L	L	Υ	Υ	L	Υ	L	L	L	L	Υ	L	Υ	N	Υ	L	Υ	L	L	LN	1
Annex 10B: 173.965-174.015 MHz	Υ	N	L	Υ	Υ	N	Υ	Υ	N	Υ	N	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N Y	7
Annex 10C: 863-865 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	7
Annex 10D: 174-216 MHz	Υ	Υ	Υ	Υ	Υ	L	Υ	L	L	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Ν	Υ	N	Υ	Υ	Υ	Υ	Υ	L	Υ	ΥY	7
Annex 10E1: 470-786 MHz	Υ	Υ	Υ	L	Υ	Υ	Υ	L	L	L	L	Υ	Υ	Υ	L	Υ	Υ	L	Υ	L	Υ	L	L	Υ	Υ	Υ	Υ	N	Υ	ΥY	7
Annex 10E2: 786-789 MHz	L	Р	N	L	N	Υ	Υ	L	L	Υ	N	N	Υ	Υ	N	N	L	L	Υ	N	Ν	N	L	N	N	N	Υ	N	L	N Y	7
Annex 10E3: 823-826 MHz	L	Р	N	L	N	Υ	U	Υ	L	Υ	N	N	Υ	Υ	N	N	L	L	Υ	N	Ν	N	L	N	N	N	Υ	N	L	N Y	7
Annex 10E4: 826-832 MHz	L	Р	N	L	N	Υ	U	Υ	L	Υ	N	N	Υ	Υ	N	N	L	L	Υ	N	Ν	N	L	N	N	N	Υ	N	L	N Y	7
Annex 10F: 1785-1795 MHz	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	Υ	Υ	Υ	Υ	Р	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	ΥY	7
Annex 10G: 1795-1800 MHz	L	Υ	Υ	L	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	ΥL	_
Annex 10H1: 169.4000-169.4750 MHz } DEC/(05)02	Υ	Υ	N	Υ	Υ	L	Υ	Υ	Υ	Υ	N	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 10H2: 169.4875-169.5875 MHz	Υ	Υ	N	Υ	Υ	L	Υ	Υ	Υ	Υ	N	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥY	1
Annex 10l: 169.4-174.0 MHz	N	N	N	L	N	Υ	Υ	N	N	Υ	N	N	N	N	L	Υ	N	Υ	Υ	N	Р	Υ	N	N	Υ	U	Υ	L	N	ΥL	_
Highlighted yellow = not implemented			Y=im	olemei	nted			L=li	mited	imple	ementa	ation						P_pla	annec	t							U=un	der s	tudy		

Annexes to ERC/REC 70-03	ΑՄ	BEL	BUL	CZE	СҮР	DNK	EST	FIN	F	D	GRC	HNG	ISL	IRL	1	LVA	LIE	LTU	LUX	MLT	HOL	NOR	POL	POR	ROU	SVK	SVN	Е	SUI	S	G
Annex 11 - Radio Frequency Identification Ap	olicati	ons																													
Annex 11A: 2446-2454 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ
Annex 11B1: 865.0-865.6 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 11B2: 865.6-867.6 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 11B3: 867.6-868.0 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 12 - Active Medical Implants and their a	associ	ated	perip	heral	s																										
Annex 12A: 9-315 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 12B: 315-600 kHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 12C: 30.0-37.5 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ
Annex 12D: 12.5-20.0 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	U	Υ	Υ	Υ	Υ	Υ
Annex 12E: 2483.5-2500 MHz	Р	Р	N	Р	N	N	U	Р	N	Υ	N	N	N	Υ	N	N	Υ	N	Υ	N	N	N	U	N	N	N	Р	N	Υ	N	Ν
Annex 13 - Wireless Audio Applications																															
Annex 13A: 863-865 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 13B: 864.8-865.0 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 13C: 1795-1800 MHz	U	Υ	Υ	Υ	Υ	Υ	Υ	L	N	Υ	Υ	Υ	Υ	N	N	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	L
Annex 13D: 87.5-108.0 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Highlighted yellow = not implemented			Y=im	pleme	nted			L=lin	nited	imple	menta	ation						P=pla	anned	t							U=un	der s	tudy		

Annexes to ERC/REC 70-03	ALB	AZE	BIH	BLR	GEO	HRV	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 1 - Non-Specific SRDs													
Annex 1A: 6765-6795 kHz	Y		Υ		N	Y	Y	Υ	Υ	N	Υ	Y	L
Annex 1B: 13.553-13.567 MHz	Υ		Y		N	Y	Y	Υ	Υ	Υ	Υ	Υ	N
Annex 1C: 26.957-27.283 MHz	Y		Υ		N	Y	Υ	Υ	Υ	Υ	Υ	Y	N
Annex 1D: 40.660-40.700 MHz	Y		Y		N	Y	Y	Υ	Υ	Υ	Υ	Υ	N
Annex 1E: 138.20-138.45 MHz	Υ		Υ		N	Р	Y	Υ	Υ	N	Υ	N	N
Annex 1F: 433.050-434.790 MHz	Υ		Υ		L	Y	Υ	Υ	Υ	L	Υ	Υ	L
Annex 1F1: 433.050-434.790 MHz	Y		Y		L	Υ	Y	Υ	Υ	N	Υ	Υ	L
Annex 1F2: 434.040-434.790 MHz	Υ		Υ		L	Y	Υ	Υ	Υ	N	Υ	Υ	L
Annex 1G: 863-870 MHz	Y		Y		N	Υ	Y	Υ	Υ	L	Υ	Υ	L
Annex 1G1: 868.000-868.600 MHz	Y		Υ		N	Y	Y	Υ	Y	N	Υ	Υ	L
Annex 1G2: 868.700-869.200 MHz	Y		Υ		N	Y	Y	Υ	Y	Υ	Υ	Υ	N
Annex 1G3: 869.400-869.650 MHz	Υ		Υ		N	Y	Υ	Υ	Υ	N	Υ	Υ	N
Annex 1G4: 869.700-870.000 MHz	Y		Υ		N	Y	Y	Υ	Y	N	Υ	Υ	N
Annex 1H: 2400.0-2483.5 MHz	Υ		Υ		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L
Annex 1I: 5725-5875 MHz	Y		Y		Y	Y	Υ	Υ	Υ	L	Υ	Υ	Υ
Annex 1J: 24.00-24.25 GHz	Υ		Υ		Υ	Y	Υ	Υ	Υ	N	Υ	Υ	Υ
Annex 1K: 61.0-61.5 GHz	Y		Υ		N	Р	Υ	Υ	Υ	N	Υ	Υ	Y
Annex 1K1: 57-64 GHz	Υ		N		N	N	Υ	N	N	N	N	N	N
Annex 1L: 122-123 GHz	Υ		Υ		N	Р	Υ	Υ	Υ	N	Υ	Υ	Υ
Annex 1M: 244-246 GHz	Υ		Υ		N	Р	Υ	Υ	Υ	N	Υ	Υ	Υ
Annex 1N: 3.1-4.8 GHz } DEC/(06)04	Y		L		N	Y	Y	N	Υ	L	N	N	U
Annex 1N: 6-9 GHz) , , ,	Y		L		N	Y	Y	N	Y	L	N	N	N
Annex 2 - Tracking, Tracing and Data Acquisition													
Annex 2A: (*457 kHz) 456.9-457.1 kHz	Y		Y		N	Y	Y	Y	Y	Y	Y	Y	L
Annex 2B: 169.4-169.475 MHz DEC/(05)02	Y		Y		N	L	Y	Y	Y	N	Y	Y	U
Annex 2C: 169.4-169.475 MHz J	Y		Y		N	L	Y	Υ	Y	N	Y	Υ	U
Annex 3 - Wideband Data Transmission Systems													
Annex 3A: 2400.0-2483.5 MHz	Y		Y		Y	Y	Y	Y	Y	L	Υ	Υ	L
Annex 3B: 57–66 GHz	Y		L		N	Y	Y	Υ	Y	N	L	N	N
Annex 4 - Railway Applications													
Annex 4A: (*27.095 MHz) 27.090-27.100 MHz	Y		Y		N	Y	Y	Y	Y	N	Y	Y	N
Annex 4B: (*4234 kHz) 984-7484 kHz	Y		Y		N	P	Y	P	Y	N	N	U	N
Annex 4C: (*13.547 MHz) 7.3-23.0 MHz	Y		Y		N	Р	Y	Р	Y	N	L	U	N
Annex 4D: 76-77 GHz	Y		N		N	N	Y	N	N	N	N	N	N
*)Center frequency for the band Highlighted yellow =not implemented Y=implemented	L=limited	impleme	ntation		P=plann				U=under	- (

Annexes to ERC/REC 70-03	ALB	AZE	BIH	BLR	GEO	HRV	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 5 - Road Transport and Traffic Telematics - RTTT													
Annex 5A: 5795–5805 MHz	Υ		Y		L	Y	Y	Υ	Y	L	Y	Υ	N
Annex 5B: 5805-5815 MHz	Y		Y		L	Р	Υ	Υ	Y	L	Y	Y	N
Annex 5C: 76-77 GHz	Υ		Y		N	Y	Υ	Υ	Υ	N	Υ	Υ	Υ
Annex 5D1: 21.65-26.65 GHz DEC(04)10	Y		L		N	Y	Y	N	Y	N	N	N	N
Annex 5D2: 24.25-26.65 GHz	Υ	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 5E: 77-81 GHz DEC(04)03	Υ		L		N	Υ	Υ	Υ	Υ	N	N	Υ	U
Annex 5F1: 24.050-24.075 GHz	Υ		L		N	U	Υ	N	Υ	N	N	N	N
Annex 5F2: 24.075-24.150 GHz	Υ		L		N	U	Υ	N	Υ	N	N	N	N
Annex 5F3: 24.150-24.250 GHz	Υ		L		N	U	Υ	N	Υ	N	N	N	N
Annex 5G1: 24.250-24.495 GHz	Υ	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 5G2: 24.495-24.500 GHz	Υ	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 5G3: 24.250-24.500 GHz	Y	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 6 - Radiodetermination applications													
Annex 6A: 2400.0-2483.5 MHz DEC/(01)08	Υ		Υ		L	Υ	Υ	Υ	Υ	N	Υ	Υ	L
Annex 6B: 9200-9500 MHz	Y		Y		L	Υ	Y	Υ	Y	N	Υ	Υ	U
Annex 6C: 9500-9975 MHz	Υ		Υ		L	Υ	Υ	Υ	Υ	N	Υ	Υ	U
Annex 6D:10.5-10.6 GHz	Υ		Y		L	Υ	Υ	Υ	Υ	U	Υ	N	L
Annex 6E:13.4-14.0 GHz	Υ		Υ		L	Υ	Υ	Υ	Υ	N	Υ	Υ	U
Annex 6F: 24.05-24.25 GHz	Υ		Υ		L	Υ	Υ	Υ	Υ	L	Υ	Υ	L
Annex 6G: 4.5-7.0 GHz			Υ		N	Υ	Υ	Р	Υ	N	L	U	U
Annex 6H: 8.5-10.6 GHz	Υ		Υ		N	Υ	Υ	Р	Υ	N	L	U	U
Annex 6l: 24.05-27.0 GHz	Υ		Υ		N	Υ	Υ	Р	Υ	N	L	U	L
Annex 6J: 57-64 GHz	Υ		Υ		N	Υ	Υ	Р	Υ	N	L	U	U
Annex 6K: 75-85 GHz	Υ		Υ		N	Υ	Υ	Р	Υ	N	L	U	L
Annex 6L: 6.0-8.5 GHz	Υ	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 6M: 24.05-26.5 GHz	Υ	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 6N: 57-64 GHz	Υ	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 60: 75-85 GHz	Y	N	N	N	N	N	Υ	N	N	N	N	N	N
Annex 6P: 17.1-17.3 GHz	Υ		Y		N	N	Υ	Р	Υ	N	L	N	N
Annex 6Q: 30 MHz-12.4 GHz DEC/(06)08	Y		L		N	Y	Υ	N	U	N	N	N	U
Annex 6R: 2.2-8.0 GHz DEC/(07)01			L		N	Y	Υ	N	Υ	N	N	N	N
Annex 7 - Alarms													
Annex 7A: 868.6-868.7 MHz			Y		N	Y	Y	Y	Y	N	Y	Υ	L
Annex 7B: 869.250-869.300 MHz	Y		Y		N	Y	Y	Y	Y	N	Y	Υ	N
Annex 7C: 869.650-869.700 MHz	Y		Y		N	Y	Y	Υ	Y	N	Y	Υ	U
Annex 7D: 869.200-869.250 MHz	Y		Y		N	Y	Y	Υ	Y	N	Y	Υ	L
Annex 7E: 869.300-869.400 MHz	Υ		Y		N	Y	Υ	Υ	Υ	N	Y	Υ	N
Annex 7F: 169.4750-169.4875 MHz			Y		N	Y	Y	Y	Y	N	Y	Υ	U
Annex 7G: 169.5875-169.6000 MHz DEC/(05)02			Y		N	Y	Υ	Υ	Y	N	Y	Υ	U
Highlighted yellow =not implemented Y=implemented	L=limited	impleme	ntation		P=plann	ed			U=under	study			

Annexes to ERC/REC 70-03		ALB	AZE	BIH	BLR	GEO	HRV	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 8 - Model Control														
Annex 8A: 26.995,27.045,27.095, 27.145,27.195 MHz)	Y		Υ		N	Y	Υ	Υ	Υ	L	Υ	Υ	L
Annex 8B: 34.995-35.225 MHz	DEC/(01)11+12	Υ		Υ		N	Y	Υ	Y	Υ	N	Υ	Υ	L
Annex 8C: 40.665,40.675 40.685, 40.695 MHz	J	Y		Υ		N	Y	Υ	Y	Y	Υ	Υ	Υ	N
Annex 9 - Inductive Applications														
Annex 9A1: 9-90 kHz		Υ		Υ		N	Υ	Υ	N	Υ	L	N	N	L
Annex 9A2: 90-119 kHz		Υ		Υ		L	Y	Υ	N	Υ	Υ	N	N	L
Annex 9A3: 119-135 kHz		Υ		Υ		N	Y	Υ	Υ	Υ	Υ	Υ	Υ	L
Annex 9B: 135-140 kHz		Υ		Υ		Ν	Y	Υ	Υ	Υ	N	Υ	Υ	L
Annex 9C 140.0-148.5 kHz		Υ		Υ		N	Y	Υ	Y	Υ	N	Υ	Υ	L
Annex 9D: 6765-6795 kHz		Υ		Υ		N	Y	Υ	Υ	Υ	Υ	Υ	Υ	N
Annex 9E: 7400-8800 kHz		Υ		Υ		N	Y	Υ	Y	Υ	Υ	Υ	Y	N
Annex 9F: 13.553-13.567 MHz		Υ		Υ		N	Y	Υ	Y	Υ	Υ	Υ	Υ	N
Annex 9F1: 13.553-13.567 MHz		Υ		Υ		N	Y	Υ	Y	Υ	Υ	Υ	Υ	L
Annex 9G: 26.957-27.283 MHz		Υ		Υ		N	Y	Υ	Y	Υ	Υ	Υ	Υ	L
Annex 9H: 10.200-11.000 MHz		Υ		Υ		N	Y	Υ	Υ	Υ	L	Υ	Υ	L
Annex 9K: 3155-3400 kHz		Υ		Υ		N	Y	Υ	Y	Υ	N	Υ	Υ	L
Annex 9L1: 148.5 kHz-5 MHz		Y		Υ		N	Y	Υ	Υ	Υ	N	Υ	Υ	U
Annex 9L2: 5-30 MHz		Υ		Υ		N	Υ	Υ	Υ	Υ	N	Υ	Υ	N
Annex 9L3: 400-600 kHz		Y		Υ		N	Υ	Υ	Y	Υ	N	Υ	Υ	U
Annex 10 - Radio microphone applications including	g aids for the heari	ing impai	red											
Annex 10A: 29.7-47.0 MHz		Υ		Υ		N	N	Υ	Υ	Υ	L	Υ	Υ	L
Annex 10B: 173.965-174.015 MHz		Υ		Υ		N	Υ	Υ	Υ	Υ	N	Υ	Υ	N
Annex 10C: 863-865 MHz		Υ		Υ		Ν	L	Υ	Υ	Υ	N	Υ	Υ	L
Annex 10D: 174-216 MHz		Υ		Υ		N	Y	Υ	Υ	Υ	L	Υ	Υ	L
Annex 10E1: 470-786 MHz		Υ		Υ		Ν	Υ	Υ	Υ	Υ	L	Υ	Υ	L
Annex 10E2: 786-789 MHz		Υ		N		N	N	Υ	N	N	N	N	N	N
Annex 10E3: 823-826 MHz		Y		N		N	N	Υ	N	N	N	N	N	N
Annex 10E4: 826-832 MHz		Υ		N		N	N	Υ	N	N	N	N	N	N
Annex 10F: 1785-1795 MHz		Y		Υ		N	Y	Υ	Y	Y	N	Υ	Υ	U
Annex 10G: 1795-1800 MHz		Y		Υ		N	L	Υ	Υ	Υ	N	Υ	Υ	U
Annex 10H1: 169.4000-169.4750 MHz }		Y		Υ		N	Y	Υ	Υ	Υ	N	Υ	Υ	U
Annex 10H2: 169.4875-169.5875 MHz DEC/(05)02		Υ		Υ		N	Y	Υ	Y	Y	N	Υ	Υ	U
Annex 10l: 169.4-174.0 MHz		Y		Υ		N	Y	Υ	Y	Y	N	N	N	N
Highlighted yellow =not implemented	Y=implemented	L=limited	impleme	ntation		P=plann	ed			U=under	study			

Annexes to ERC/REC 70-03	ALB	AZE	BIH	BLR	GEO	HRV	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 11 - Radio Frequency Identification Applications													
Annex 11A: 2446-2454 MHz	Υ		Υ		Y	Υ	Υ	Υ	Υ	N	Υ	Y	U
Annex 11B1: 865.0-865.6 MHz	Υ		Υ		N	Υ	Υ	N	Υ	N	Υ	Υ	U
Annex 11B2: 865.6-867.6 MHz	Υ		Υ		N	Y	Υ	N	Y	L	Υ	Υ	U
Annex 11B3: 867.6-868.0 MHz	Y		Υ		N	Υ	Υ	N	Y	L	Υ	Υ	U
Annex 12 - Active Medical Implants and their associated peripherals													
Annex 12A: 9-315 kHz	Υ		Υ		N	Υ	Υ	Υ	Υ	N	Υ	Υ	L
Annex 12A: 9-315 kHz	Υ		Υ		N	Y	Υ	Y	Υ	N	Υ	Υ	L
Annex 12B: 315-600 kHz	Υ		Υ		N	Υ	Υ	Υ	Υ	N	Υ	Υ	L
Annex 12C: 30.0-37.5 MHz	Υ		Υ		N	Y	Υ	Y	Υ	N	N	Υ	L
Annex 12D: 12.5-20.0 MHz			Υ		N	Y	Υ	Υ	Y	N	L	Υ	U
Annex 12E: 2483.5-2500 MHz	Y		N		N	N	Υ	N	N	N	N	N	N
Annex 13 - Wireless Audio Applications													
Annex 13A: 863-865 MHz	Υ		Υ		N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N
Annex 13B: 864.8-865.0 MHz			Υ		Y	Υ	Υ	Υ	Y	N	Υ	Y	L
Annex 13C: 1795-1800 MHz	Υ		Υ		L	N	Υ	Υ	Y	N	Υ	Υ	U
Annex 13D: 87.5-108.0 MHz			Υ		Y	Y	Υ	Y	Y	L	Υ	Y	L
Highlighted yellow =not implemented Y=implemented		impleme	ntation		P=plann	ed			U=under	study			

APPENDIX 2: LIST OF RELEVANT ECC/ERC DECISIONS, REPORTS, EC DECISIONS AND ETSI HARMONISED EUROPEAN STANDARDS

Table 15: ECC/ERC Decisions

ECC/DEC/(11)02	Industrial Level Probing Radars (LPR) operating in frequency bands 6-8.5 GHz, 24.05-26.5 GHz, 57-64 GHz and 75-85 GHz
ECC/DEC/(09)03	Harmonised conditions for Mobile/Fixed Communications Networks (MFCN) operating in the band 790-862 MHz
ECC/DEC/(07)01	Building Material Analysis (BMA) devices using UWB technology
ECC/DEC/(06)08	The conditions for use of the radio spectrum by Ground- and Wall- probing radar (GPR/WPR) imaging systems
ECC/DEC/(06)04	The harmonised conditions for devices using Ultra-wideband (UWB) technology in bands below 10.6 GHz
ECC/DEC/(05)02	The use of the frequency band 169.4-169.8125 MHz
ECC/DEC(04)10	The frequency bands to be designated for the temporary introduction of Automotive Short Range Radars
ECC/DEC/(04)03	The frequency band 77-81 GHz to be designated for the use of Automotive Short Range Radars
ECC/DEC/(04)01	Short Range Devices for detection of Avalanche Victims
ERC/DEC(01)08	Short Range Devices for Movement Detection and Alert in 2400-2483.5 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

Table 16: 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
ECC Report 002	SAP/SAB (Incl. ENG/OB) spectrum use and future requirements
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 023	Compatibility of automotive collision warning short range radar operating at 24 GHz with FS, EESS and Radio Astronomy
ECC Report 024	PLT, DSL, CABLE communications (Including CABLE TV), LANS and their effect on radio services
ECC Report 037	Compatibility of planned SRD applications in 863-870 MHz
ECC Report 040	Adjacent band compatibility between CDMA-PAMR mobile services and Short Range Devices below 870 MHz
ECC Report 056	Compatibility of automotive collision warning short range radar operating at 79 GHz with radiocommunication services
ECC Report 064	The protection requirements of radiocommunication systems below 10.6 GHz from generic UWB applications
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
ECC Report 067	Compatibility study for generic limits for the emission levels of inductive SRDs below 30 MHz
ECC Report 068	Compatibility studies in the band 5725-5875 MHz between Fixed Wireless Access (FWA) systems and other systems
ECC Report 073	Compatibility of SRD in the FM radio broadcasting band
ECC Report 081	The coexistence between Ultra Low Power - Animal Implant Devices (ULP-AID) operating in the frequency band 12.5-20 MHz and existing

	radiocommunication systems
ECC Report 094	Technical requirements for UWB LDC devices to ensure the protection of FWA systems
ECC Report 098	Studying the compatibility issues of the UIC EUROLOOP system with other systems in the frequency band 9.5 to 17.5 MHz
ECC Report 100	Compatibility studies in the band 3400-3800 MHz between broadband wireless access (BWA) systems and other services
ECC Report 111	Compatibility studies between Ground Based Synthetic Aperture Radar (GBSAR) and existing services in the range 17.1 GHz to 17.3 GHz
ECC Report 113	Compatibility studies around 63 GHz between Intelligent Transport Systems (ITS) and other systems
ECC Report 114	Compatibility studies between multiple GIGABIT wireless systems in frequency range 57-66 GHz and other services and systems (except its in 63-64 GHz)
ECC Report 120	Technical requirements for UWB DAA (Detect And Avoid) devices to ensure the protection of radiolocation in the bands 3.1-3.4 GHz and 8.5-9 GHz and BWA terminals in the band 3.4-4.2 GHz
ECC Report 134	Analysis of potential impact of mobile Vehicle Radars (VR) on Radar Speed Meters (RSM) operating at 24 GHz
ECC Report 135	Inductive limits in the frequency range 9 kHz to 148.5 kHz
ECC Report 139	Impact of Level Probing Radars (LPR), using Ultra-Wideband Technology on radiocommunications services
ECC Report 149	Compatibility of LP-AMI applications within 2360-3400 MHz, in particular for the band 2483.5-2500 MHz, with incumbent services
ECC Report 164	Compatibility between Wide Band Low Activity Mode (WLAM) automotive radars in the frequency range 24.25 GHz to 24.5 GHz, and other radiocommunication systems/services
ECC Report 170	Specific UWB applications in the bands 3.4-4.8 GHz and 6-8.5 GHz Location Tracking Applications for Emergency Services (LAES), location tracking applications type 2 (LT2) and location tracking and sensor applications for automotive and transportation environments (LTA)
ECC Report 176	The impact of non-specific SRDs on radio services in the band 57–66 GHz
ECC Report 181	Improving spectrum efficiency in SRD bands
ECC Report 182	Survey about the use of the frequency band 863-870 MHz

ERC Report 001	Harmonisation of frequency bands to be designated for Radio Local Area Networks (RLANs)
ERC Report 003	Harmonisation of frequency bands to be designated for road transport information systems (RTTT)
ERC Report 005	ERC Report on frequency bands for Low Power Devices
ERC Report 008	General methodology for assessing compatibility between Radio Local Area Networks (RLANs) and the fixed Service
ERC Report 014	Co-existence of radio local area networks with the microwave landing system
ERC Report 015	Compatibility study between radar and RLANs operating at frequencies around 5.5 GHz
ERC Report 042	Handbook on radio equipment and systems radio microphones and simple wide band audio links
ERC Report 044	Sharing inductive systems and radiocommunication systems in the band 9-135 kHz
ERC Report 047	Compatibility fixed services and motion sensors at 10.5 GHz
ERC Report 062	Compatibility analysis regarding possible sharing between the UIC system and radio microphones in the frequency ranges 876 - 880 MHz and 921 - 925 MHz
ERC Report 063	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	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	RFID and the radioastronomy services at 13 MHz
ERC Report 088	Compatibility and sharing analysis between DVB-T and radio microphones in bands IV and V
ERC Report 092	Sharing inductive Short Range Devices and radio communication systems in 10.2-11 MHz
ERC Report 095	The use of 3155-3400 kHz for general inductive applications

ERC Report 096	The use of 290-300 kHz and 500-510 kHz for general inductive applications
ERC Report 098	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 Harmonised European Standards

Further information can be found at http://ec.europa.eu/enterprise/policies/european-standards/documents/harmonised-standards-legislation/list-references/rtte/index_en.htm

Table 17: ETSI Harmonised European Standards – Generic Standards

	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
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
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
EN 302 065	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD) using Ultra Wide Band technology (UWB) for communications purposes
EN 305 550	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range.

Table 18: ETSI Harmonised European Standards – Specific Standards

	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
EN 300 422	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range
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
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
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
EN 301 559	Low Power Active Medical Implants (LP-AMI) operating in the frequency range 2 483,5 MHz to 2 500 MHz
EN 301 893	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonised EN covering essential requirements of article 3.2 of the R&TTE Directive.
EN 302 066	Electromagnetic compatibility and Radio spectrum Matters (ERM); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio equipment in the frequency range 9 kHz to 315 kHz for Ultra Low Power Active Medical Implants (ULP-AMI) and accessories
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
EN 302 291	Close Range Inductive Data Communication equipment operating at 13.56 MHz
EN 302 372	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Equipment for Detection and Movement; Tanks Level Probing Radar (TLPR) operating in the frequency bands 5.8 GHz, 10 GHz, 25 GHz, 61 GHz and 77 GHz
EN 302 264	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band
EN 302 288	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short range radar equipment operating in the 24 GHz range
EN 302 435	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics for SRD equipment using Ultra WideBand technology (UWB); Building Material Analysis and Classification equipment applications operating in the frequency band from 2,2 GHz to 8,5 GHz
EN 302 500	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD) using Ultra WideBand (UWB) technology;

	Specific standards
	Location Tracking equipment operating in the frequency range from 6 GHz to 8.5 GHz
EN 302 510	Electromagnetic compatibility and Radio spectrum Matters (ERM);Radio equipment in the frequency range 30 MHz to 37,5 MHz for Ultra Low Power Active Medical Membrane Implants and Accessories
EN 302 536	Electromagnetic compatibility and Radio spectrum Matters (ERM);Short Range Devices (SRD);Radio equipment in the frequency range 315 kHz to 600 kHz
EN 302 537	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Ultra Low Power Medical Data Service Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz
EN 302 567	Broadband Radio Access Networks (BRAN); 60 GHz Multiple-Gigabit WAS/RLAN Systems
EN 302 608	Electromagnetic compatibility and Radio spectrum Matters (ERM);Short Range Devices (SRD);Radio equipment for Eurobalise railway systems
EN 302 609	Electromagnetic compatibility and Radio spectrum Matters (ERM);Short Range Devices (SRD);Radio equipment for Euroloop railway systems
EN 302 858	Electromagnetic compatibility and Radio spectrum Matters (ERM);Road Transport and Traffic Telematics (RTTT);Short range radar equipment operating in the 24.05 GHz to 24.25 GHz frequency range for automotive applications

Table 19: EC Decisions

EC Decision	Title
2011/829/EU	Amending Decision 2006/771/EC on the harmonisation of the radio spectrum for use by SRDs
2011/485/EU	Harmonisation of the 24 GHz range radio spectrum band for the time-limited use by automotive SRR equipment in the Community
2010/368/EU	Amending the Decision 2006/771/EC on harmonisation of the radio spectrum for use by SRDs
2009/381/EC	Amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by SRDs
2009/343/EC	Amending the Decision 2007/131/EC on the harmonised use of the radio spectrum for equipment using UWB technology
2008/673/EC	Amending Decision 2005/928/EC on the harmonisation of the 169.4-169.8125 MHz frequency band in the Community
2008/432/EC	Amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices
2007/346/EC	Granting a derogation requested by France pursuant to Decision 2006/804/EC on harmonisation of the radio spectrum for Radio Frequency (Dentification (RFID) devices operating in the Ultra High Frequency (UHF) band
2007/131/EC	Allowing the use of the radio spectrum for equipment using Ultra-wideband technology in a harmonised manner in the community
2007/90/EC	Amending Decision 2005/513/EC on the harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)
2006/804/EC	Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (UHF) band
2006/771/EC	Harmonisation of the radio spectrum for use by short-range devices
2005/928/EC	Harmonisation of the 169.4-169.8125 MHz frequency band in the Community
2005/513/EC	Harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of wireless access systems including radio local area networks (WAS/RLANs)
2005/50/EC	The harmonisation of the 24 GHz range radio spectrum band for the time-limited use by Automotive Short-Range Radar equipment in the community
2004/545/EC	The harmonisation of radio spectrum in the 79 GHz range for the use of Automotive Short-Range Radar equipment in the community

APPENDIX 3 – NATIONAL RESTRICTIONS

"Appendix 3 lists national restrictions. The first section contains general comments from administrations and these apply to all annexes in this Recommendation. The second section contains comments from administrations and these are on specific frequency bands contained within this Recommendation. These indicate where administrations are not able to implement frequency allocations or where implementation is incomplete. For consistency, one of the following four standard positions should be used:

- Implemented: If the Appendix entry is blank then Recommendation 70-03 has been fully implemented.
- Limited implementation: A short explanation can be provided. If under study or planned, then a date should be given.
- Not implemented: A short explanation can be provided. If under study or planned, then a date should be given.

No information: No information has yet been provided by the administration."

Frequency Band	Country	Implementation	Reason/remarks
	Albania		Frequencies covered by ERC/REC 70-03 are implemented through the notes of the National Frequency Table, for each band mentioned in 70-03
All Annexes	France	France does not recognise the former marking CEPT SRD Aa Y and CEPT RLAN Y recommmended 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

Frequency Band	Country	Implementation	Reason/remarks
	Lithuania		The radio frequencies may be used without an individual authorisation in case the relevant radio frequency or radio frequencies band is included in the List of Radio Frequencies, which may be used without an Individual Authorisation, approved by Order No. 1V-893 of 9 September 2010 of the Director of the Communications Regulatory Authority (Official Gazette Valstybes zinios, Nr. 108-5577, 2010). 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. Decision Nr. 126 dated 02.06.2009 of the Administrative Council of the National Regulatory Agency for electronic Communications and Information Technology of the Republic of Moldova, owners of short range radiocommunication devices have the right to use several categories of frequencies in compliance with the ERC/REC 70-03 without obtaining a license for the use of radio frequencies/channels or a technical permit
	Russian Federation	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 authorisation for using certain radio frequencies, which is granted after conformity assessment procedures. All types of radio equipment require 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	

Frequency Band	Country	Implementation	Reason/remarks
		the Russian Federation	
	Turkey		The short range and low powered devices under the scope of SRD Ordinance (enter into force 17 March 2007) 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 technical regulations specifications accepted by The Authority
Annex 1 Band A	Georgia	No info	
(Non- Specific SRDs)	Russian Federation	Not implemented	
6765-6795 kHz	Ukraine	Limited implementation	The maximal strength of a magnetic field on distance of 10 m from the station is 42 dBµA/m
	Belgium	Not implemented	
	Croatia	Not implemented	Implementation planned for 2012
	France	Not implemented	Military use. The use of this band by SRDs is not planned in France
	Georgia	Not implemented	
	Germany	Not implemented	Defence systems
	Hungary	Not implemented	Aeronautical mobile applications operate in the band
	Italy	Not implemented	Military application
A 4 Day 15	Latvia	Not implemented	Exclusive defence systems
Annex 1 Band E (Non- Specific SRDs)	Liechtenstein	Not implemented	
138.20-138.45 MHz	Poland	Not implemented	Military application
130.20-130.43 WHIZ	Russian Federation	Not implemented	
	Slovenia	Not implemented	Not available
	Spain	Not implemented	Military application
	Sweden	Not implemented	
	Switzerland	Not implemented	Exclusive defence systems
	The Netherlands	Not implemented	Exclusive defence systems
	Turkey	Not implemented	Defence systems
	Ukraine	Not implemented	
Annex 1 Band F	Georgia	Limited implementation	
(Non- Specific SRDs) 433.050-434.790 MHz	Italy	Limited implementation	Audio applications are limited in the range 433.05-433.575 MHz with 12.5 or 25 kHz channel spacing
	Russian Federation	Limited implementation	433.075-434.790 MHz. Possible use of low power stations and devices for processing of bar-codes

Frequency Band	Country	Implementation	Reason/remarks
	Ukraine	Limited implementation	The maximal transmitter power 10 mW
	Georgia	Limited implementation	
Annex 1 Band F1 (Non- Specific SRDs)	Italy	Limited implementation	Audio applications are limited in the range433.05-433.575 MHz with 12.5 or 25 kHz channel spacing
433.050-434.790 MHz	Russian Federation	Not implemented	
	Ukraine	Limited implementation	The maximal transmitter power 10 mW
Annex 1 Band F2	Georgia	Limited implementation	
(Non- Specific SRDs)	Russian Federation	Not implemented	
434.040-434.790 MHz	Ukraine	Limited implementation	The maximal transmitter power 10 mW
	Austria	Not implemented	Planned
	Georgia	Not implemented	
	Greece	Limited implementation	to 863-865 MHz
Annex 1 Band G	Norway	Not implemented	
(Non- Specific SRDs) 863-870 MHz	Russian Federation	Limited implementation	864-865 MHz with max e.r.p 25 mW, duty cycle 0.1% or LBT. Forbidden to use at the airports (aerodromes)
003-070 WITZ	Spain	Limited implemented	to the band 863-868 MHz
	Sweden	Not implemented	
	The Netherlands	Not implemented	Under study
	Ukraine	Limited implementation	863-865 / 868-868.6 / 868.6-868.7 / 869.2-869.25 MHz
Annex 1 Band G1	Georgia	Not implemented	
(Non- Specific SRDs)	Russian Federation	Not implemented	
868.000-868.600 MHz	Ukraine	Limited implementation	e.i.r.p. ≤25 mW
Annex 1 Band G3	Georgia	Not implemented	
(Non- Specific SRDs)	Russian Federation	Not implemented	
869.400-869.650 MHz	Ukraine	Not implemented	
Annex 1 Band G4	Georgia	Not implemented	
(Non- Specific SRDs)	Russian Federation	Not implemented	
869.700-870.000 MHz	Ukraine	Not implemented	

Annex 1 Band H	Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
(Non- Specific SRDs) 2400.0-2483.5 MHz	Russian Federation		Bluetooth
2400.0-2403.3 NITIZ	Ukraine	Limited implementation	e.i.r.p. ≤100 mW
Annex 1 Band I (Non- Specific SRDs) 5725-5875 MHz	Russian Federation	Limited implementation	Duty cycle 0.1% or LBT. Antenna height should not exceed 5 m
Annex 1 Band J (Non- Specific SRDs)	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
24.00-24.25 GHz	Russian Federation	Not implemented	
	United Kingdom	Limited implementation	Only 24.150-24.250 GHz to protect police speed meters
Annex 1 Band K	Croatia	Not implemented	Implementation planned for 2012
(Non- Specific SRDs)	Georgia	No info	
61.0-61.5 GHz	Russian Federation	Not implemented	
Annex 1 Band K1 (Non- Specific SRDs) 57-64 GHz			
Annex 1 Band L (Non- Specific SRDs) 122-123 GHz	Croatia	Not implemented	Implementation planned for 2012
	France	Not implemented	
	Georgia	No info	
	Russian Federation	Not implemented	
Annex 1 Band M	Croatia	Not implemented	Implementation planned for 2012
(Non- Specific SRDs)	France	Not implemented	
244-246 GHz	Georgia	No info	
	Russian Federation	Not implemented	

	Bosnia and Herzegovina	Not implemented	Committed
	Macedonia (FYROM)	No info	
Annex 1 Band N (Non- Specific SRDs) 3.1-4.8 GHz/6-9 GHz	Russian Federation	Limited	In accordance with National restrictions For Indoor applications: 1. Prohibited to use outside buildings 2. Prohibited to use onboard aircraft while arriving and departure 3. Prohibited to use in freight terminals in airports. Power spectral density limits: 2850-3375 MHz: -57 dBm/MHz 3375-3950 MHz: -61.5 dBm/MHz 3375-3950 MHz: -54.5 dB/MHz 4425-5470 MHz: -50 dB/MHz 5470-6000 MHz: -62.5 dBm/MHz 6000-8100 MHz: -47 dBm/MHz 8100-8625 MHz: -65 dBm/MHz 8625-9150 MHz: -47 dB/MHz 9150-10600 MHz: -45 dBm/MHz For Outdoor applications: Power spectral density limits: 2850-3375 MHz: -57 dBm/MHz 3375-4800 MHz: -76 dBm/MHz 4800-5475 MHz: -50 dBm/MHz 4800-5475 MHz: -50 dBm/MHz 6000-7250 MHz: -47 dBm/MHz 7750-8625 MHz: -69 dBm/MHz 7750-8625 MHz: -69 dBm/MHz 8625-9150 MHz: -47 dBm/MHz 8625-9150 MHz: -47 dBm/MHz
	Serbia	No info	
	Turkey	No info	
	Ukraine	Not implemented	Under study for 3.1-4.8 GHz
	Bulgaria	Implemented	457 kHz centre frequency is allocated 456.9-457.1 kHz band is not allocated
Annex 2 Band A Tracking, Tracing	France	Implemented	National regulation specifies only the carrier frequency 457 kHz
and Data Acquisition	Georgia	Not implemented	
456.9-457.1 kHz	Ukraine	Limited implementation	The maximal strength of magnetic field is 7 dBµA/m on distance of 10 m from a construction where the radiator is placed

	Bulgaria	Not implemented	The band is used for national security needs
	Croatia	Limited implementation	Individual licence required
	Cyprus	Implemented	Cyprus has implemented Decision 2005/928/EC
Annex 2 Band B	Georgia	Not implemented	
Tracking, Tracing and Data Acquisition	Greece	Not implemented	
169.4-169.475 MHz	Norway	Limited	Maximum radiated power = 10 mW
	Russian Federation	Not implemented	
	The Netherlands	Implemented	Channel spacing 12.5 kH
	Ukraine	Not implemented	Under study
	Austria	Not implemented	Planned
	Bulgaria	Not implemented	The band is used for national security needs
	Croatia	Limited implementation	Individual licence required
Annex 2 Band C	Cyprus	Implemented	Cyprus has implemented Decision 2005/928/EC
Tracking, Tracing	Denmark	Not implemented	PMR band
and Data Acquisition	Georgia	Not implemented	
169.4-169.475 MHz	Greece	Not implemented	
	Russian Federation	Not implemented	
	The Netherlands	Implemented	Channel spacing 12.5 kHz
	Ukraine	Not implemented	Under study
Annex 3 Band A Wideband Data	Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund on Svalbard
Transmission systems	Italy	Implemented	The public use is subject to general authorisation by the respective service provider
2400.0-2483.5 MHz	Russian Federation	Limited implementation	1. SRD with FHSS modulation
			1.1. Maximum 2.5 mW e.i.r.p.
			1.2. Maximum 100 mW e.i.r.p. Permitted for use SRD for outdoor applications without restriction on installation height only for purposes of gathering telemetry information for automated monitoring and resources accounting systems. Permitted to use SRD for other purposes for outdoor applications only when the installation height is not exceeding 10 m above the ground surface.
			1.3.Maximum 100 mW e.i.r.p. Indoor applications
			2. SRD with DSSS and other than FHSS wideband modulation

			2.1. Maximum mean e.i.r.p. density is 2 mW/MHz. Maximum 100 mW e.i.r.p.
			2.2. Maximum mean e.i.r.p. density is 20 mW/MHz. Maximum 100 mW e.i.r.p. It is permitted to use SRD for outdoor applications only for purposes of gathering telemetry information for automated monitoring and resources accounting systems or security systems.
			2.3. Maximum mean e.i.r.p. density is 10 mW/MHz. Maximum 100 mW e.i.r.p. Indoor applications
	Ukraine	Limited implementation	e.i.r.p. ≤100 mW with built-in antenna with amplification factor up to 6 dBi
	Georgia	No info	
Annex 3 Band B	Russian Federation	Not implemented	
Wideband Data Transmission systems	Serbia	Available in the range: 61.0-61.5 GHz	According to the Frequency Plan, only this part of the spectrum is aimed for the SRD applications
57-66 GHz	Turkey	Not implemented	Defence systems
	Ukraine	No info	
	Bulgaria	Implemented	27.095 MHz center frequency is allocated. 27.090-27.100 MHz band is not allocated
	Cyprus	Not implemented	Service not applicable to Cyprus
Annex 4 Band A	France	Implemented	National regulation specifies only the carrier frequency 27.095 MHz
Railway applications	Georgia	No info	
27.090-27.100 MHz (Centre frequency	Iceland	Not implemented	Service not applicable to Iceland
27.095 MHz	Malta	Not implemented	Service not applicable to Malta
	Russian Federation	Not implemented	
	Sweden	Not implemented	27.115 MHz used as provided in EU legislation
	Ukraine	Not implemented	
	Belgium	Not implemented	Planned
Annex 4 Band B Railway applications 984-7484 kHz	Bulgaria	Implemented	4234 kHz center frequency is allocated 984-7484 kHz band is not allocated
	Croatia	Not implemented	Implementation planned for 2012
	Cyprus	Not implemented	Service not applicable to Cyprus
(Centre frequency	Czech Republic	Not implemented	Planned 2012
4234 kHz)	Georgia	No info	
	Iceland	Not implemented	Service not applicable to Iceland
	Latvia	Implemented	National regulation specifies only the carrier frequency 4234 kHz. The 984-7484

			kHz band is not allocated
	Macedonia (FYROM)	Not implemented	Planned
	Malta	Not implemented	Service not applicable to Malta
	Russian Federation	Not implemented	
	Serbia	Not implemented	According to the Frequency Plan, this part of the spectrum is aimed for the mobile maritime applications (4063-4438 kHz)
	Slovak Republic	Not implemented	Under study
	Slovenia	Not implemented	
	Sweden	Not implemented	
	The Netherlands	Not implemented	Planned
	Turkey	Under study	Planned
	Ukraine	No info	
	Belgium	Not implemented	Planned
	Bulgaria	Implemented	11.1-16.0 MHz is allocated 7.3-23.0 MHz band is not allocated
	Croatia	Not implemented	Implementation planned for 2012
	Cyprus	Not implemented	Service not applicable to Cyprus
	Czech Republic	No info	· · · · · · · · · · · · · · · · · · ·
	Georgia	No info	
	Greece	Not implemented	
Annex 4 Band C	Iceland	Not implemented	Service not applicable to Iceland
Railway applications 7.3-23.0 MHz	Italy	Not implemented	
(Centre frequency	Latvia	Not implemented	Planned
13.547 MHz)	Macedonia (FYROM)	Not implemented	Planned
	Malta	Not implemented	Service not applicable to Malta
	Norway	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Available in the range: 13.553-13.567 MHz	According to the Frequency Plan, this part of the spectrum is available for the SRD applications
	Slovak Republic	Not implemented	Under study
	Slovenia	Not implemented	
	Spain	Not implemented	Due to lack of demands

	Sweden	Not implemented	
	The Netherlands	Not implemented	Planned
	Turkey	Under study	Planned
	Ukraine	No info	
Annex 4 Band D Railway applications 76-77 GHz			
	France	Limited implementation	Limited to automatic toll collection. Power limited to 2 W e.i.r.p. Military Radiolocation and Meteorological use
	Georgia	Limited implementation	<u> </u>
	Ireland	Limited implementation	8W system not implemented
	Liechtenstein	Limited implementation	Annex has two levels. Lower level with 2 W e.i.r.p.is implemented
Annex 5 Band A	Malta	Limited implementation	Power limited to 2 W e.i.r.p. as per the lower limit of the Annex
RTTT 5795-5805 MHz	Norway	Limited implementation	Individual license required
3/93-3803 MHZ	Russian Federation	Limited implementation	200 mW e.r.p. An authorisation for using radio frequencies or channels should too be obtained in established order
	Switzerland	Limited implementation	Annex has two levels. Lower level with 2 W e.i.r.p. is implemented to protect defence systems
	Ukraine	Not implemented	
	United Kingdom	Limited implementation	2 Watts only permitted
	Croatia	Not implemented	Implementation planned 2012
	France	Not implemented	
	Georgia	Limited implementation	
Annex 5 Band B	Ireland	Limited implementation	8W system not implemented
RTTT 5805-5815 MHz	Liechtenstein	Limited implementation	Annex has two levels. Lower level with 2 W e.i.r.p. is implemented. For road toll systems only
5500 00 10 III IM	Malta	Limited implementation	Power limited to 2 W e.i.r.p. as per the lower limit of the Annex
	Norway	Limited implementation	Individual license required
	Russian Federation	Limited implementation	200 mW e.r.p. An authorisation for using radio frequencies or channels should too be obtained

			in established order
	Switzerland	Limited implementation	Annex has two levels. Lower level with 2 W e.i.r.p. is implemented. For road toll systems only
	Ukraine	Not implemented	
	United Kingdom	Limited implementation	2 Watts only permitted
Annex 5 Band C	Georgia	No info	
RTTT	Russian Federation	Not implemented	
76-77 GHz			
Annex 5 Band D1	Georgia	Not implemented	
RTTT	Turkey	No info	
21.65-26.65 GHz	Ukraine	Not implemented	
Annex 5 Band D2	Liechtenstein	Not implemented	Planned
RTTT	Switzerland	Not implemented	Planned
24.25-26.65 GHz			
	Georgia	Not implemented	
Annex 5 Band E	Russian Federation	Not implemented	
RTTT	Serbia	Not implemented	
77-81 GHz	Turkey	No info	
	Ukraine	Not implemented	Under study
	Bosnia and Herzegovina	Not implemented	Committed
	Croatia	Not implemented	Under study until 2015
	Georgia	Not implemented	
Annex 5 Band F1 RTTT 24.050-24.075 GHz	Macedonia (FYROM)	No info	
	Norway	No info	
	Russian Federation	No info	
	Serbia	No info	
	Turkey	No info	
	Ukraine	No info	

	Bosnia and Herzegovina	Not implemented	Committed
	Croatia	Not implemented	Under study until 2015
	Georgia	Not implemented	
Annex 5 Band F2	Macedonia (FYROM)	No info	
RTTT	Norway	No info	
24.075-24.150 GHz	Russian Federation	No info	
	Serbia	No info	
	Turkey	No info	
	Ukraine	No info	
	Bosnia and Herzegovina	Not implemented	Committed
	Croatia	Not implemented	Under study until 2015
	Georgia	Not implemented	
Annex 5 Band F3	Macedonia (FYROM)	No info	
RTTT	Norway	No info	
24.150-24.250 GHz	Russian Federation	No info	
	Serbia	No info	
	Turkey	No info	
	Ukraine	No info	
Annex 5 Band G1			
RTTT			
24.250-24.495 GHz			
	Liechtenstein	Not implemented	Planned
	Switzerland	Not implemented	Planned
	United Kingdom	Not implemented	

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	Liechtenstein	Not implemented	Planned
Annex 5 Band G2			
RTTT			
24.495-24.500 GHz	Switzerland	Not implemented	Planned
	United Kingdom	Not implemented	
	Liechtenstein	Not implemented	Planned
Annex 5 Band G3			
RTTT 24.250-24.500 GHz			
24.230-24.300 GHZ	Switzerland	Not implemented	Planned
	United Kingdom	Not implemented	
	France	Limited implementation	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in
		,	recent years to allow current relaxed regulation.
Annex 6 Band A			Full implementation planned 2012
Radiodetermination	Georgia	Limited implementation	
applications			
2400.0-2483.5 MHz			
	Russian Federation	Not implemented	
	Ukraine	Limited implementation	e.i.r.p. <100 mW

Finland Not implemented France Not implemented Georgia Limited implementation Italy Not implemented Radiodetermination applications Russian Federation Not implemented	
Georgia Limited implementation Annex 6 Band B Radiodetermination Russian Federation Not implemented Russian Federation Not implemented	
Annex 6 Band B Radiodetermination Russian Federation Not implemented Russian Federation Not implemented	
Radiodetermination Russian Education Not implemented	
Russian Edderation Not implemented	
9200-9500 MHz Spain Not implemented Military application	
Sweden Not implemented	
Ukraine Not implemented Under study	
United Kingdom Limited implementation May be used for Radar Level Gauges only	
France Limited implementation Limited to 9.88-9.92 with max e.i.r.p. 50 mW	
Georgia Limited implementation	
Germany Not implemented Defence systems	
Annex 6 Band C Russian Federation Not implemented	
Radiodetermination applications Slovak Republic Not implemented Defence systems	
9500-9975 MHz Spain Not implemented Military application	
Sweden Not implemented	
Ukraine Not implemented Under study	
United Kingdom Limited implementation May be used for Radar Level Gauges only	
Austria Not implemented Fixed Service	
Czech Republic Not implemented Other service in the band	
Estonia Not implemented FWA	
Finland Not implemented 10.45-10.50 GHz available	
France Limited implementation Limited to 10.57-10.61 with max e.i.r.p. 20 m\	N
Annex 6 Band D Georgia Limited implementation	
Radiodetermination applications Germany Not implemented ENG/OB video links equipment	
10.5-10.6 GHz Hungary Limited implementation e.i.r.p. 25 mW. ENG/OB systems are protected	ed
Ireland Limited implementation Max power limitation of 25 mW to protect Fixe Service operating in the 10.5 GHz band	ed Wireless Access Local Area
Luxembourg Limited to 25 mW Reason: To avoid interference with other serv	vices
Russian Federation Not implemented Under study	
Slovak Republic Not implemented Fixed Service	

	Sweden	Limited implementation	Limited to 10.51-10.58 GHz
	Turkey	Not implemented	Fixed Service and radiolocation
	United Kingdom	Limited implementation	Limited to 10.577-10.597 GHz. May be used for Radar Level Gauges
	Ukraine	Limited implementation	10.51-10.54 GHz
	France	Not implemented	
Annex 6 Band E	Georgia	Limited implementation	
Radiodetermination applications	Russian Federation	Not implemented	
13.4-14.0 GHz	Sweden	Not implemented	
	Ukraine	Not implemented	Under study
	France	Limited implementation	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. Military Radiolocation use. Operation by police forces of Radar Speed Meters
	Georgia	Limited implementation	
	Russian Federation	Limited implementation	Vehicle radars: Maximum 100 mW e.i.r.p.
Annex 6 Band F			No restrictions if emission bandwidth is not less than 9 MHz. If emission bandwidth is less than 9 MHz then the requirement should be 0.14 μs/60 kHz maximum dwell time every 3ms
Radiodetermination			Fixed radars: Maximum 100 mW e.i.r.p.
applications 24.05-24.25 GHz			1. The equipment for detecting movement should be installed along roads at 4 m distance from controlled part of road.
			2. The installation of equipment for detecting movement should be performed perpendicularly to movement direction of one- or multilane road with permissible deviation ± 15 degrees.
			3. The installation height of equipment for detecting movement should not exceed 5m above a road.
			4. The tilt angle of the main beam to horizon should be minus 20 degrees or less
	Ukraine	Limited implementation	e.i.r.p. ≤100 mW
	United Kingdom	Limited implementation	To protect police speed meters devices operating in 24.05-24.15 GHz must employ a minimum sweep rate

	Georgia	Not implemented	Under study
	Macedonia (FYROM)	Not implemented	Planned
	Russian Federation	Not implemented	
Annex 6 Band G Radiodetermination applications 4.5-7.0 GHz	Serbia	Available in the range: 5.725-5.875 GHz 5.15-5.25 GHz / 5.250- 5.255 GHz and 5.255-5.350 GHz	According to the Frequency Plan, 5.725-5.875 GHz is available for the SRD applications. According to the Frequency Plan, 5.15-5.25 GHz, 5.250-5255 GHz and 5.255-5.350 GHz is available for the WAS and RLANS applications
	Turkey	Under study	Planned
	Ukraine	Not implemented	Under study
	Georgia	Not implemented	
	Macedonia (FYROM)	Not implemented	Planned
Anney C Dend II	Russian Federation	Not implemented	
Annex 6 Band H Radiodetermination			
applications 8.5-10.6 GHz	Serbia	Available in the range: 10.50-10.55 GHz and 10.55-10.60 GHz	According to the Frequency Plan, this part of the spectrum is available for the SRD applications
	Turkey	Under study	Planned
	Ukraine	Not implemented	Under study
	Georgia	Not implemented	Under study
	Macedonia (FYROM)	Not implemented	Planned
Annex 6 Band I	Russian Federation	Not implemented	
Radiodetermination applications 24.05-27.0 GHz	Serbia	Available in the range: 24.05-24.25 GHz	According to the Frequency Plan, this part of the spectrum is available for the SRD applications
24.05-27.0 GHZ	Turkey	Under study	Planned
	Ukraine	Limited implementation	24.05-24.25 GHz
Annex 6 Band J Radiodetermination applications 57-64 GHz	Georgia	No info	
	Macedonia (FYROM)	Not implemented	Planned
	Russian Federation	Not implemented	
	Serbia	Available in the range: 61.0-61.5 GHz	According to the Frequency Plan, only this part of the spectrum is aimed for the SRD applications
	Turkey	Under study	Planned

	Ukraine	Not implemented	Under study
	Georgia	No info	
	Macedonia (FYROM)	Not implemented	Planned
Annex 6 Band K	Russian Federation	Not implemented	
Radiodetermination applications 75-85 GHz	Serbia	Available in the range: 76.0-77.5 GHz	According to the Frequency Plan, only this part of the spectrum is aimed for the SRD applications (traffic radiolocation)
73-03 GHZ	Turkey	Under study	Planned
	Ukraine	Limited implementation	In the band 76-77 GHz average e.i.r.p. ≤23.5 dBm
	Liechtenstein	Not implemented	Planned
Annex 6 Band L			
Radiodetermination			
applications 6.0-8.5 GHz			
6.0-6.5 GHZ			
	Switzerland	Not implemented	Planned
	United Kingdom	Limited implementation	6.0-7.1 GHz for Radar Level Gauge only 0.1 mW Average Power
	Liechtenstein	Not implemented	Planned
Annex 6 Band M Radiodetermination			
applications 24.5-26.5 GHz	Switzerland	Not implemented	Planned
	United Kingdom	Limited implementation	For Radar Level Gauge only 0.1 mW Average Power

Annex 6 Band N	Liechtenstein	Not implemented	Planned
Radiodetermination			
applications			
57-64 GHz	Switzerland	Not implemented	Planned
	United Kingdom	Not implemented	
Annex 6 Band O	Liechtenstein	Not implemented	Planned
Radiodetermination applications			
75-85 GHz			
	Switzerland	Not implemented	Planned
	United Kingdom	Not implemented	
	Croatia	Not implemented	Lack of demand
	Georgia	Not implemented	
	Greece	Not implemented	
	Italy	Not implemented	Under study
Annex 6 Band P	Luxembourg	Not implemented	
Radiodetermination applications 17.1-17.3 GHz	Macedonia (FYROM)	Not implemented	Planned
	Malta	Not implemented	Malta implemented the provision of 2006/771/EC, as amended
	Portugal	Not implemented	Under study
	Russian Federation	Not implemented	
	Serbia	Not implemented	According to the Frequency Plan this part of the spectrum is aimed for WLL and RLANs
	Sweden	Not implemented	

	The Netherlands	Not implemented	Planned
	Ukraine	Not implemented	
	Austria	Not implemented	Planned
	Belgium	Not implemented	Planned
	Cyprus	Not implemented	Under study
	France	Not implemented	Planned 2012
	Georgia	Not implemented	
	Greece	No info	
	Hungary	Not implemented	Planned
	Ireland	Not implemented	Planned before end of 2012
Annex 6 Band Q	Italy	No info	
Radiodetermination	Lithuania	Not implemented	Under study
applications	Macedonia (FYROM)	Not implemented	
30 MHz-12.4 GHz	Montenegro	Not implemented	Under study
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovak Republic	No info	
	Spain	Not implemented	Planned but not before third quarter of 2012
	Sweden	No	
	Turkey	Not implemented	
	Ukraine	Not implemented	Under study
	United Kingdom	Limited implementation	Devices are limited to GPR only. Full implementation planned for 2013
	Austria	Limited implementation	According to Commission Decision 2009/343/EC
	Bosnia and Herzegovina	Limited implementation	
Annex 6 Band R Radiodetermination applications	Cyprus	Not implemented	Under study
	Georgia	Not implemented	
	Greece	No info	
2.2 – 8.0 GHz	Hungary	Not implemented	Planned
	Italy	No info	
	Lithuania	Limited implementation	only parameters set in 2009/343/EC are allowed

	Malta	No info	
	Macedonia (FYROM)	Not implemented	
	Poland	Not implemented	Under study
	Portugal	Not implemented	Planned
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovak Republic	No info	
	Spain	Not implemented	
	Sweden	Not implemented	Planned
	Ukraine	Not implemented	
	United Kingdom	Not implemented	Planned for 2013
Annex 7 Band A	Georgia	No info	
Alarms	Russian Federation	Not implemented	
868.600-868.700 MHz	Ukraine	Limited implementation	The maximal transmitter power 10 mW
Annex 7 Band B	Georgia	No info	
Alarms	Russian Federation	Not implemented	
869.250-869.300 MHz	Ukraine	No info	
	Georgia	No info	
Annex 7 Band C Alarms	Russian Federation	Not implemented	
869.650-869.700 MHz Annex 7 Band D Alarms			
	Ukraine	Not implemented	Under study
	Georgia	No info	
	Russian Federation	Not implemented	
869.200-869.250 MHz	Ukraine	Limited implementation	The maximal transmitter power 10 mW

Annex 7 Band E	Georgia	No info	
Alarms	Greece	Not implemented	
869.300-869.400 MHz	Macedonia (FYROM)	Not implemented	Planned
(Technical parameters	Russian Federation	Not implemented	
have been changed)	Ukraine	Not implemented	
	Bulgaria	Not implemented	The band is used for national security needs
	Cyprus	Implemented	Cyprus has implemented Decision 2005/928/EC
Annex 7 Band F	Denmark	Limited implementation	PMR band
Alarms 169.4750-169.4875	Georgia	Not implemented	
MHz	Greece	Not implemented	
	Russian Federation	Not implemented	
	Ukraine	Not implemented	Under study
	Austria	Not implemented	Planned
	Bulgaria	Not implemented	The band is used for national security needs
Annex 7 Band G	Cyprus	Implemented	Cyprus has implemented Decision 2005/928/EC
Alarms	Denmark	Limited implementation	PMR band
169.5875-169.6000	Georgia	Not implemented	
MHz	Greece	Not implemented	
	Russian Federation	Not implemented	
	Ukraine	Not implemented	Under study
Annex 8 Band A	Georgia	No info	
Model Control	Russian Federation	Limited implementation	Power limited to 10 mW.
26.995, 27.045,			Maximum antenna gain is 3 dB, channel spacing 50 kHz
27.095, 27.145, 27.195 MHz	Ukraine	Limited implementation	The maximal transmitter power 10 mW
	France	Limited implementation	Limited to 34.995-35.055 MHz. Dedicated networks for Ministry of transport.
Annex 8 Band B Model Control	Georgia	Not implemented	
	Germany	Limited to 35.005-35.205 MHz	Emergency services
34.995-35.225 MHz	Russian Federation	Not implemented	
	Ukraine	Limited implementation	The maximal transmitter power 10 mW

	Austria	Not implemented	
	Belgium	Not implemented	Planned
	Bulgaria	Partly implemented	Implemented in the band 9-59.75 kHz. The bands 59.75-60.25 kHz and 70-90 kHz are allowed with a maximum magnetic field strength of 42 dBµA/m at 10 m. The band 60.25-70.0 kHz is allowed with a maximum magnetic field strength of 69 dBµA/m at 10 m
	Denmark	Limited implementation	Implemented according to the EC SRD Decision 2006/771/EC
	France	Limited implementation	Limited to +42 dBµA/m in the frequency band 70-90 kHz
	Georgia	Not implemented	
	Latvia	Limited implementation	9-59.750 kHz maximum field strength 72 dBµA/m at 10m; 59.750-60.250 kHz maximum field strength 42 dBµA/m at 10m; 60.250-70 kHz maximum field strength 69 dBµA/m at 10m; 70-119 kHz maximum field strength 42 dBµA/m at 10m
	Lithuania	Limited implementation	Implemented according to the EC SRD Decision 2006/771/EC
	Macedonia (FYROM)	No info	
Annex 9 Band A1	Norway	No info	
Inductive applications 9 – 90 kHz	Russian Federation	Limited implementation	9-59.75 kHz: Maximum magnetic field strength is +72 dBµA/m at 10 m. In case of external antennas only loop coil antennas may be employed. Field strength level descending 3 dB/oct at 30 kHz. 59.75-60.25 kHz: Maximum magnetic field strength is +42 dBµA/m at 10 m. In case of external antennas only loop coil antennas may be employed. 60.25-70 kHz: Maximum magnetic field strength is +69 dBµA/m at 10 m. In case of external antennas only loop coil antennas may be employed. Field strength level descending 3dB/oct at 30 kHz. 70-90 kHz: Maximum magnetic field strength is +42 dBµA/m at 10 m. In case of external antennas only loop coil antennas may be employed
	Serbia	No info	
	Spain	Limited implementation	to 9-70 kHz
	The Netherlands	Not implemented	Planned (Pending)
	Turkey	No info	
	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed in the band 9-59.75 kHz is 72 dBμA/m, in the band 59.75-60.25 kHz is 42 dBμA/m, in the band 60.250-70 kHz is 69 dBμA/m, in the band 70-119 kHz is 42 dBμA/m

	Denmark	Limited implementation	Implemented according to the EC SRD Decision 2006/771/EC
	Georgia	Limited implementation	
	Latvia	Partly implemented	
A 0 D 1 40	Lithuania	Limited implementation	Implemented according to the EC SRD Decision 2006/771/EC
Annex 9 Band A2 Inductive	Macedonia (FYROM)	No info	
applications	Norway	No info	
90-119 kHz	Serbia	No info	
	The Netherlands	Not implemented	Planned (Pending)
	Turkey	No info	
	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed in the band 70-119 kHz is 42 dBµA/m
	Georgia	Not implemented	
Annex 9 Band A3	Lithuania	Limited implementation	Implemented according to the EC SRD Decision 2006/771/EC
Inductive applications	The Netherlands	Not implemented	Planned (Pending)
119-135 kHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed in the band 119-135 kHz is 66 dBµA/m
	Georgia	Not implemented	
Annex 9 Band B	Hungary	Not implemented	Not allocated. Planned
Inductive	Russian Federation	Not implemented	
applications	The Netherlands	Not implemented	Planned (Pending)
135-140 kHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed in the band 135-140 kHz is 42 dBµA/m
	Georgia	Not implemented	
Annex 9 Band C Inductive applications 140.0-148.5 kHz	Russian Federation	Not implemented	
	The Netherlands	Not implemented	Planned (Pending)
	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed in the band 140-148.5 kHz is 37.7 dBµA/m

Annex 9 Band D Inductive applications 6765-6795 kHz	Georgia Ukraine	Not implemented No info	
Annex 9 Band E Inductive			
applications 7400-8800 kHz	Spain	No restriction	Frequency band 7350-8800 kHz
Annex 9 Band F1	Georgia	Not implemented	
Inductive applications 13.553-13.567 MHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed is 42 dBµA/m
Annex 9 Band G	Georgia	Not implemented	
Inductive applications 26.957-27.283 MHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed is 42 dBµA/m
Annex 9 Band H	Georgia	Not implemented	
Inductive	Russian Federation	Limited implementation	Maximum magnetic field strength is -4 dBµA/m at 10 m
applications 10.200-11.000 MHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed is 9 dBµA/m
Annex 9 Band K	Georgia	Not implemented	
Inductive	Russian Federation	Not implemented	
applications 3155-3400 kHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed is 13.5 dBµA/m
Annex 9 Band L1 Inductive applications	Georgia	Not implemented	
	Poland	Limited implementation	Implemented 148.5 kHz - 1.6. MHz
	Russian Federation	Not implemented	
148.5 kHz-5 MHz	Ukraine	Not implemented	Under study

Annex 9 Band L2	Georgia	Not implemented	
Inductive	Russian Federation	No info	
applications 5-30 MHz	Ukraine	No info	
Annex 9 Band L3	Georgia	Not implemented	
Inductive	Russian Federation	Not implemented	
applications 400-600 kHz	Ukraine	Not implemented	Under study
	Austria	Limited implementation	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
	Croatia	Not implemented	Defence systems
	Czech Republic	Limited implementation	Only four sub-bands allowed:
			27.415-27.915 MHz 10 mW e.r.p. channel max 50 kHz
			36.4-36.65 MHz 10 mW e.r.p. channel max 50 kHz
			36.65-38.0 MHz 2 mW e.r.p. channel max 50 kHz 38.0-38.5 MHz 10 mW e.r.p. channel max 200 kHz
	Estonia	Limited to 37.6-38.6 MHz	Land mobile
Annex 10 Band A	Finland	Limited implementation	only 31.1, 32.1, 32.9, 33.5, 36.7, 37.1 and 42.4-43.6 MHz with max 200 kHz channels
Radio Microphone	France	Limited implementation	to 32.8, 36.4, 39.2 MHz 1 mW e.r.p. and 200 kHz
applications	Georgia	Not implemented	
including aids for the hearing impaired 29.7-47.0 MHz	Germany	Limited implementation	to 32.4-38.2 MHz. Permitted channel spacing 10 kHz below 36 MHz and 40 kHz above 36 MHz
2011 47.10 111.12	Greece	Limited implementation	to 30.00 MHz, 30.50 MHz, 31.00 MHz, 35.00 MHz, 36.50 MHz, 36.70 MHz, 37.00 MHz, 37.10 MHz, 37.50 MHz
	Hungary	Limited implementation	34.9-38.5 MHz band is allocated
	Italy	Limited to 41.0-43.6 MHz	Military application
	Liechtenstein	Limited implementation	Limited to 31.4-39.6 MHz
	Lithuania	Limited implementation	only 30.01-30.3 MHz, 30.5-32.15 MHz, and 32.45-37.5 MHz are allowed
	Luxembourg	Limited implementation	excluding the use of the band 34.995-35.225 MHz
	Malta	Limited implementation	to 29.7-34.9 and 37.5-40.98 MHz
	Norway	Limited implementation	to 41.0-43.6 MHz max channel spacing 10 kHz. Max 100 mW e.r.p. AM not allowed

Portugal	Not implemented	Defence systems
Romania	Limited implementation	Only sub-bands: 29.7-30.3 MHz; 30.5-32.15 MHz; 32.45- 33.1 MHz; 33.6-34.975 MHz; 37.5- 40.02 MHz; 40.66- 41.015 MHz; 44.5- 45.2 MHz are allowed
Russian Federation	Limited implementation	Hearing and speech training radio devices for persons with speech defects. Power limited to 10 mW
		Fixed frequencies in the bands 33.175-40MHz and 40.025-48.5 MHz:
		33.2, 33.35, 33.45, 33.55, 33.575, 33.6, 33.75, 33.85, 33.875, 33.9, 34.05, 34.15, 34.175, 34.2, 34.3, 34.375, 34.4, 34.975, 35.025, 35.15, 35.225, 35.375, 35.55, 35.65, 35.95, 35.975, 36.025, 36.075, 36.125, 36.175, 36.225, 36.275, 36.325, 36.375, 36.425, 36.475, 36.525, 36.575, 36.625, 36.675, 36.725, 36.775, 36.825, 36.875, 36.925, 36.975, 37.025, 37.075, 37.125, 37.175, 37.225, 37.275, 37.325, 37.375, 37.425, 37.475, 37.525, 37.575, 37.625, 37.675, 37.725, 37.775, 37.825, 37.875, 37.925, 37.975, 38.025, 38.075, 38.125, 38.175, 38.225, 38.275, 38.325, 38.375, 38.425, 38.475, 38.525, 38.575, 38.625, 38.675, 38.725, 38.775, 39.025, 39.225, 39.400, 39.6, 39.75, 39.85, 39.925, 39.975, 40.05, 40.15, 40.25, 40.325, 40.425, 40.65, 40.825, 41.3, 41.325, 41.35, 41.375, 41.4, 41.5, 41.6, 41.625, 41.65, 41.675, 41.7, 41.75, 41.8, 41.9, 41.95, 42.1, 42.15, 42.2, 42.25, 42.35, 42.45, 42.475, 42.5, 42.525, 42.55, 42.575, 42.6, 42.625, 42.65, 42.675, 42.7, 42.725, 42.75, 42.8, 42.85, 42.95, 42.975, 43. 43.15, 43.175, 43.2, 43.225, 43.25, 43.4, 43.5, 43.7, 43.725, 43.75, 43.8, 44, 44.25, 44.4, 44.475, 44.5, 44.65, 44.75, 44.975, 45.45, 45.45, 45.45, 45.475, 45.5, 45.65, 45.75, 45.8, 45.95, 45.975, 46.46.75, 46.775, 46.8, 46.825, 46.85, 46.875, 46.925, 46.95, 46.975, 47, 47.075, 47.125, 47.25 MHz
Slovak Republic	Limited to 27.75-27.9 and 36.4-38.5 MHz	Defence systems in the rest of the band
Spain	Limited implementation	to 31.500, 31.750, 37.850, 38.300 and 38.550 MHz
Sweden	Limited implementation	Limited to 41.0-43.6 MHz - Land Mobile
Switzerland	Limited implementation	Limited to 31.4-39.6 MHz. Main use by defence systems
Ukraine	Limited implementation	In the band 30.01-47 MHz maximal transmitter power is 10 mW
United Kingdom	Not implemented	

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	Belgium	Not implemented	
	Bulgaria	Limited implementation	Limited to 174.000-174.015 MHz
	Denmark	Not implemented	PMR band
Annex 10 Band B	France	Not implemented	Governmental band
Radio Microphone	Georgia	Not implemented	
applications	Greece	Not implemented	
including aids for	Liechtenstein	Not implemented	Occupied with mobile services
the hearing impaired 173.965-174.015 MHz	Russian Federation	Not implemented	
173.905-174.015 WITZ	Spain	Not implemented	Due to lack of demand
	Sweden	Not implemented	Land Mobile
	Switzerland	Not implemented	Closely occupied with mobile services
	Ukraine	Not implemented	
Annex 10 Band C	Croatia	Limited implementation	Individual license required
Radio Microphone	Georgia	Not implemented	
applications including aids for	Russian Federation	Not implemented	
the hearing impaired 863-865 MHz	Ukraine	Limited implementation	The maximal transmitter power is 10 mW
	Denmark	Limited implementation	Tuning range
	Finland	Limited implementation	Regional restrictions
	France	Limited implementation	For professional users. 175.5-178.5 and 183.5-186.5 MHz also authorised for consumer products with 10 mW e.r.p. and 200 kHz channel spacing
Annex 10 Band D	Georgia	Not implemented	
Radio Microphone	Ireland	Not implemented	
applications including aids for the hearing impaired 174-216 MHz	Malta	Not implemented	
	Norway	Not implemented	
	Russian Federation	Limited implementation	174-230 MHz: Power limited to 5 mW. Maximum antenna gain is 3 dB. Channel spacing is 200 kHz
	Spain	Limited implementation	174.100, 174.300, 175.500, 176.300, 179.300, 188.100, 188.500, 189.100, 191.900 and 194.500 MHz
	Ukraine	Limited implementation	Under condition of not causing interference to other stations working in this band. In bands of 174.4-174.6 MHz and 174.9-175.1 MHz the maximal

			transmitter power is 10 mW
	Czech Republic	Partly implemented under conditions of former band E	This band will replace previous band 470-862 MHz arrangement before 2013
	Finland	Limited implementation	Regional restrictions. Radiomicrophones in the frequency band 694-786 MHz allowed until the end of year 2020
	France	Limited implementation	For professional users
	Germany	Limited implementation	
Annex 10 Band E1	Greece	Limited implementation	
Radio Microphone applications including aids for	Lithuania	Limited implementation	In all 470–862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required
the hearing impaired	Malta	Limited implementation	
470-786 MHz	Norway	Limited implementation	
	Poland	Limited implementation	Radio Microphones and Assistive Listening Devices are allowed in the whole band 470 – 862 MHz until introduction of MFCN networks in Poland. After that frequency band will be limited to the band 470-786 MHz. Individual licensing under study
	Spain	Not implemented	Only broadcasting TV in this band
	Austria	Limited implementation	Currently old regulation (470-862 MHz; 50 mW e.r.p.; 200 kHz channel spacing) is in force
	Belgium	Not implemented	Planned
	Croatia	Implemented	Individual license required
Annex 10 Band E2	Czech Republic	Partly implemented under conditions of former band E	This band will replace previous band 470–862 MHz arrangement before 2013
Radio Microphone	Cyprus	No info	
applications including aids for the hearing impaired 786-789 MHz	Finland	Limited implementation	Regional restrictions. Radiomicrophones in the frequency band 694-786 MHz allowed until the end of year 2020
	France	Limited implementation	For professional users
	Greece	No info	
	Hungary	No info	
	Latvia	No info	
	Liechtenstein	Limited implementation	50 mW e.r.p. until 31.12.2012
	Lithuania	Limited implementation	In all 470-862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required

	Malta	Not implemented	
	The Netherlands	Not implemented	
	Norway	Not implemented	
	Poland	Limited implementation	With technical parameters for the "old" band E. Full implementation and individual licensing under study
	Portugal	Not implemented	
	Romania	Not implemented	
	Slovak Republic	Not implemented	
	Spain	Not implemented	Only broadcasting TV in this band
	Sweden	Not implemented	
	Switzerland	Limited implementation	50 mW e.r.p. until 31.12.2012
	Turkey	No info	
	Austria	Limited implementation	Currently old regulation (470-862 MHz; 50 mW e.r.p.; 200 kHz channel spacing) is in force
	Belgium	Not implemented	Planned
	Croatia	Not implemented	
	Czech Republic	Partly implemented under conditions of former band E	This band will replace previous band 470–862 MHz arrangement before 2013
	Cyprus	No info	
Annex 10 Band E3	Estonia	Not implemented	Under study
Radio Microphone applications	France	Limited implementation	For professional users. Limited to 50 mW e.r.p.
including aids for the hearing	Greece	No info	
impaired823-826	Hungary	No info	
MHz	Latvia	No info	
	Liechtenstein	Limited implementation	50 mW e.r.p. until 31.12.2012
	Lithuania	Limited implementation	In all 470–862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required
	Malta	Not implemented	
	Norway	Not implemented	
	Poland	Limited implementation	With technical parameters for the "old" band E. Full implementation and individual licensing under study

	Portugal	Not implemented	
	Romania	Not implemented	
	Slovak Republic	Not implemented	
	Spain	Not implemented	Only broadcasting TV in this band
	Sweden	Not implemented	
	Switzerland	Limited implementation	50 mW e.r.p. until 31.12.2012
	The Netherlands	Not implemented	
	Turkey	No info	
	Austria	Limited implementation	Currently old regulation (470-862 MHz; 50 mW e.r.p.; 200 kHz channel spacing) is in force
	Belgium	Not implemented	Planned
	Croatia	Not implemented	
	Czech Republic	Partly implemented under conditions of former band E	This band will replace previous band 470-862 MHz arrangement before 2013
	Cyprus	No info	
	Estonia	Not implemented	Under study
	France	Limited implementation	For professional users. Limited to 826-830 MHz with 50 mW max e.r.p.
Annex 10 Band E4 Radio Microphone	Greece	No info	
applications	Hungary	No info	
including aids for	Latvia	No info	
the hearing impaired	Liechtenstein	Limited implementation	50 mW e.r.p. until 31.12.2012
826-832 MHz	Lithuania	Limited implementation	In all 470-862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required
	Malta	Not implemented	
	Norway	Not implemented	
	Poland	Limited implementation	With technical parameters for the "old" band E. Full implementation and individual licensing under study
	Portugal	Not implemented	
	Romania	Not implemented	
	Slovak Republic	Not implemented	
	Spain	Not implemented	Only broadcasting TV in this band

	Sweden	Not implemented	
	Switzerland	Limited implementation	50 mW e.r.p. until 31.12.2012
	The Netherlands	Not implemented	
	Turkey	No info	
	Austria	Limited implementation	to 1785.7-1795 MHz
	Georgia	Not implemented	
	Italy	Not implemented	Military application
Annex 10 Band F	Ireland	Not implemented	All-island WAPECS in Operation
Radio Microphone	Malta	Not implemented	Planned
applications including aids for	Russian Federation	Not implemented	
the hearing impaired	Slovak Republic	Not implemented	Fixed Service
1785-1795 MHz	Sweden	Not implemented	
	The Netherlands	Implemented	max 50 mW e.r.p. Channel spacing 600 kHz
	Ukraine	Not implemented	Under study
	United Kingdom	Implemented	Individual licence required
Annex 10 Band G	Austria	Limited implementation	to the band 1795-1799.4 MHz
Radio Microphone	Croatia	Limited implementation	Individual licence required
applications including aids for	Czech Republic	Limited implementation	Individual license required, General licence planned 2012
the hearing impaired	Finland	Limited implementation	Individual license required
1795-1800 MHz	Georgia	Not implemented	
	Italy	Not implemented	Military application
	Ireland	Not implemented	All-island WAPECS in Operation
	Russian Federation	Not implemented	
	Slovak Republic	Not implemented	Fixed Service
	Sweden	Not implemented	
	The Netherlands	Implemented	max 50 mW e.r.p. Channel spacing 600 kHz
	Ukraine	Not implemented	Under study
	United Kingdom	Limited implementation	Individual licence required

	Bulgaria	Not implemented	The band is used for national security needs
	Cyprus	Implemented	Cyprus has implemented Decision 2005/928/EC
Annex 10 Band H1	Denmark	Limited implementation	PMR band
Radio Microphone applications	Georgia	Not implemented	
including aids for		'	
the hearing	Greece	Not implemented	
impaired169.4000- 169.4750 MHz	Ireland	Limited implementation	Max. e.r.p. is currently limited to 10 mW
103.47 30 WII IZ	Russian Federation	Not implemented	
	Ukraine	Not implemented	Under study
	Austria	Not implemented	Planned
	Bulgaria	Not implemented	The band is used for national security needs
Annex 10 Band H2	Cyprus	Implemented	Cyprus has implemented Decision 2005/928/EC
Radio Microphone applications	Denmark	Limited implementation	PMR band
including aids for	Georgia	Not implemented	
the hearing	Greece	Not implemented	
impaired169.4875- 169.5875 MHz	Ireland	Limited implementation	Max. e.r.p. is currently limited to 10 mW
	Russian Federation	Not implemented	
	Ukraine	Not implemented	Under study
	Austria	Not implemented	Implementation depends on market demand
	Belgium	Not implemented	
	Bulgaria	Not implemented	The band is used for national security needs
	Cyprus	Not implemented	
Annex 10 Band I Radio Microphone applications	Czech Republic	Limited implementation	Only two parts of the band allowed above 169.5875 MHz 173.3 MHz: 50 mW e.r.p. max 75 kHz. 173.965-174.015 MHz: 2 mW e.r.p. channel spacing max 50 kHz. Other services in the rest of the band
including aids for the hearing impaired	Finland	Not implemented	The first of the band
169.4-174.0 MHz	France	Not implemented	
	Georgia	Not implemented	
	Greece	Not implemented	
	Hungary	Not planned	Governmental use in the band
	Iceland	No info	

	Ireland	Not implemented	
		•	
	Italy	Limited to 169.815 MHz	
	Liechtenstein	Not implemented	Occupied with mobile services
	Malta	Not implemented	
	Poland	Not implemented	
	Portugal	Not implemented	Land Mobile
	Russian Federation	Not implemented	
	Serbia	Not implemented	In the Frequency Plan in this part of the spectrum there are not available frequency slots for the radio microphones
	Slovak Republic	Not implemented	Under study
	Spain	Limited implementation	Channel plan for 169.4-169.8 MHz according ECC/DEC/(05)02
	Sweden	Not implemented	
	Switzerland	Not implemented	Occupied with mobile services
	The Netherlands	Not implemented	Planned
	Turkey	No info	
	Ukraine	Not implemented	
	United Kingdom	Limited implementation	Implemented in 173.325-174.000 MHz and at 2 mW only
	France	Limited implementation	Power limited to 500 mW e.i.r.p.
Annex 11 Band A			Military Radiolocation and Fixed Service use
RFID	Russian Federation	Not implemented	
2446-2454 MHz	Sweden	Limited implementation	Limited to 100 mW e.i.r.p. Defence systems
	Ukraine	Not implemented	Under study
Annex 11 Band B1	Georgia	No info	
RFID	Russian Federation	Not implemented	
865.0-865.6 MHz	Ukraine	Not implemented	Under study

Annex 11 Band B2 RFID 865.6-867.6 MHz	France Georgia Russian Federation	Limited implementation No info Limited implementation	Power limited to 500 mW e.r.p. within defined zones around certain military camps in France (see list of military camps with geographical coordinates in national radio interface specification). Tactical Radio Relay 866.6-867.4 MHz with e.r.p 100 mW. The assignment of radio frequencies or channels is not required in when: a) LBT is applied b) equipment is used at the airport 866.0-867.6 MHz with e.r.p 2 W. The assignment of radio frequencies or channels should too be performed in established order
	Ukraine	Not implemented	Under study
Annex 11 Band B3	Georgia	No info	
RFID 867.6-868.0 MHz	Russian Federation	Limited implementation	866-868 MHz. The assignment of radio frequencies or channels should too be performed in established order
007:0-000:0 IM112	Ukraine	Not implemented	Under study
Annex 12 Band A	Georgia	No info	
Active Medical	Russian Federation	Not implemented	
Implants and their associated peripherals 9-315 kHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed is 30 dBµA/m
Annex 12 Band B	Georgia	No info	
Active Medical	Russian Federation	Not implemented	
Implants and their associated peripherals 315-600 kHz	Ukraine	Limited implementation	The maximal strength of magnetic field on the distance of 10 m from a construction where the radiator is placed is 30 dBµA/m
Annex 12 Band C	Georgia	No info	
Active Medical Implants and their associated	Russian Federation	Not implemented	
	Serbia	Not implemented	In the Frequency Plan in this part of the spectrum there are not available frequency slots for this applications
peripherals	Slovak Republic	Limited to 33 – 37.5 MHz	Defence systems and other services in the rest of the band
30.0-37.5 MHz	Ukraine	Limited implementation	The maximal transmitter power is 1 mW

Annex 12 Band D Active Medical	Georgia	No info	
	Russian Federation	Not implemented	
Implants and their associated	Serbia	Available in the range: 13.553-13.567 MHz	According to the Frequency Plan, this part of the spectrum is available for the SRD applications
peripherals	Slovak Republic	Not implemented	Under study
12.5-20.0 MHz	Ukraine	Not implemented	Under study
	Austria	Not implemented	Planned
	Belgium	Not implemented	Planned
	Bulgaria	No info	
	Croatia	Not implemented	Implementation planned for 2012
	Czech Republic	Not implemented	Planned 2012
	Cyprus	No info	
	Denmark	No info	
	Estonia	Not implemented	Under study
	Finland	Not implemented	Planned 2012
	France	Not implemented	
Annex 12 Band E	Georgia	No info	
Active Medical	Greece	No info	
Implants and their associated	Hungary	No info	
peripherals	Iceland	No info	
2483.5-2500 MHz	Italy	No info	
	Lithuania	Not implemented	
	Malta	Not implemented	
	Norway	Not implemented	
	Poland	Not implemented	Under study
	Portugal	Not implemented	
	Romania	Not implemented	
	Slovak Republic	Not implemented	
	Slovenia	Not implemented	Planned
	Spain	Not implemented	
	Sweden	Not implemented	

	The Netherlands	Not implemented	
	Turkey	No info	
	United Kingdom	Not implemented	
Annex 13 Band B Wireless Audio	Russian Federation	Not implemented	
Applications 864.8-865 MHz	Ukraine	Limited implementation	e.i.r.p. ≤10 _M B _T
Annex 13 Band C	Austria	Not implemented	Under study
Wireless Audio	Croatia	Not implemented	Lack of demand
Applications	Finland	Limited implementation	Individual license required
1795-1800 MHz	France	Not implemented	
	Georgia	Limited implementation	
	Ireland	Not implemented	All-island WAPECS in Operation
	Italy	Not implemented	Military application
	Russian Federation	Not implemented	
	Slovak Republic	Not implemented	Fixed service
	The Netherlands	Not implemented	
	Ukraine	Not implemented	Under study
	United Kingdom	Limited implementation	Individual licence required
Annex 13 Band D Wireless Audio Applications	Russian Federation	Limited implementation	Maximum e.i.r.p43 dBm (50 NW). No spacing. Omnidirectional antenna. Permitted to use inside cars and other vehicles, and also inside of the closed premises
87.5-108.0 MHz	Ukraine	Limited implementation	87.5-92 MHz; 100-108 MHz; (e.i.r.p. ≤50*10 ⁻⁹ W); 89.9-90.2 MHz (the maximal transmitter power is 10 mW)

LIST OF ABBREVIATIONS AS USED IN THIS DOCUMENT

Table 20: List of abbreviations as used in this document

List of abbreviations as used in this document							
AFA	Adaptive Frequency Agility						
AVI	Automatic Vehicle Identification for Railways						
ВМА	Building Material Analysis						
CEPT	European Conference of Postal and Telecommunications Administrations						
DAA	Detect and Avoid						
EAS	Electronic Article Surveillance						
ECC	Electronic Communications Committee						
ECO	European Communications Office						
EFIS	ECO Frequency Information System						
ENG/OB	Electronic News Gathering / Outside Broadcasting						
ERC	European Radiocommunications Committee						
ERM	Electromagnetic Compatibility and Radio Spectrum Matters						
ETSI	European Telecommunications Standard Institute						
FHSS	Frequency Hopping Spread Spectrum						
FMCW	Frequency Modulated Continuous Wave						
GBSAR	Ground Based Synthetic Aperture Radar						
FHSS	Frequency Hopping Spread Spectrum						
GPR/WPR	Ground- and Wall Probing Radars						
ISM	Industrial, Scientific and Medical applications						
LBT	Listen Before Talk						
LP-AMI	Low Power Active Medical Implant						
PMR	Professional Mobile Radio / Private Mobile Radio						
PMSE	Programme Making Special Events						
R&TTE	Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999on 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			
SRR	Short Range Radar			
TLPR	Tank Level Probing Radar			
ULP-AID	Ultra Low Power Animal Implant Devices			
ULP-AIP	Ultra Low Power Animal Implantable			
ULP-AMI	Ultra Low Power Active Medical Implants			
UWB	Ultra WideBand			
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 Table 18. These limits are advisory with a view to facilitating sharing between systems in the same frequency band.

Table 21: Duty Cycle Categories

	Name	Transmitting time / Full cycle	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%

Table 22: Document History

	Text	Page	Edition
Text of the ER	4	October 2010	
	Rearranged text of Recommendation 18 October 2005		
Annex 1	Non-specific Short Range Devices	6	October 2012
Annex 2	Tracking, Tracing and Data Acquisition	10	June 2009
Annex 3	Wideband Data Transmission systems	11	October 2012
Annex 4	Railway applications	12	October 2012
Annex 5	Road Transport & Traffic Telematics (RTTT)	14	May 2012
Annex 6	Radiodetermination applications	17	May 2012
Annex 7	Alarms	19	October 2009
Annex 8	Model Control	20	October 2009
Annex 9	Inductive applications	21	October 2009
Annex 10	Radio microphones and Assistive Listening Devices	24	February 2011
Annex 11	Radio frequency identification applications	27	January 2010
Annex 12	Active Medical Implants and their associated peripherals	29	October 2012
Annex 13	Wireless Audio applications	31	May 2008
Appendix 1	Implementation Status	32	October 2012
Appendix 2	List of relevant ECC/ERC Decisions, Reports, EC Decisions and ETSI Standards	40	October 2012
Appendix 3	National restrictions	49	October 2012