



ERC Recommendation 70-03

Relating to the Use of Short Range Devices (SRD)

Tromsø 1997

Subsequent amendments

10 September 2015

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 40

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.

This Recommendation is also electronically available in the EFIS database (link).

Information on R&TTE Directive equipment classes is available in the EFIS database (link).

The CEPT country codes used in this Recommendation can be seen under (link).

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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 or modulation/maximum occupied bandwidth (Annex 1), 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.

For countries having implemented the R&TTE Directive further details can be found on the relevant EC (<u>link</u>) and the Office web sites (<u>link</u>).

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 1 to 3 and also the related cross-references in the Annexes may be undertaken by the Office 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."

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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	6765-6795 kHz	42 dBµA/m at 10m	No requirement	Not specified		The frequency band is also identified in Annex 9
b	13.553-13.567 MHz	42 dBμA/m at 10m	No requirement	Not specified		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	Not specified		The frequency band is also identified in Annex 9
с1	26.995, 27.045, 27.095, 27.145, 27.195 MHz	100 mW e.r.p	≤ 0.1 % duty cycle (note 1)	≤10 kHz		The frequency band is also identified in Annex 8
d	40.660-40.700 MHz	10 mW e.r.p.	No requirement	Not specified		
е	138.20-138.45 MHz	10 mW e.r.p.	≤ 1.0 % duty cycle (note 1)	Not specified		
e1	169.4000-169.4750 MHz	500 mW e.r.p.	≤ 1.0 % duty cycle (note 1)	≤ 50 kHz	ECC/DEC/(05)02	The frequency band is also identified in Annexes 2 and 10
e2	169.4000-169.4875 MHz	10 mW e.r.p.	≤ 0.1 % duty cycle (note 1)	Not specified	ECC/DEC/(05)02	Equipment that concentrates or multiplexes individual equipment is excluded
e 3	169.4875-169.5875 MHz	10 mW e.r.p.	≤ 0.001% duty cycle except for 00:00 h to 06:00 h	Not specified	ECC/DEC/(05)02	Equipment that concentrates or multiplexes individual equipment is excluded.

	Frequency Band	requirements		Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
			local time where the duty cycle limit is ≤ 0.1% (note 1)			The frequency band is also identified in Annex 10
e4	169.5875-169.8125 MHz	10 mW e.r.p.	≤ 0.1 % duty cycle (note 1)	Not specified	ECC/DEC/(05)02	Equipment that concentrates or multiplexes individual equipment is excluded
f	433.050-434.790 MHz	10 mW e.r.p.	≤ 10 % duty cycle (note 1)	Not specified		
f1	433.050-434.790 MHz	1 mW e.r.p. -13 dBm/10 kHz	No requirement except for (note 11)	Not specified		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 11)	≤ 25 kHz		
	863-870 MHz (notes 3 and 4)	25 mW e.r.p.	≤ 0.1% duty cycle or LBT (notes 1 and 5)	≤ 100 kHz for 47 or more channels (note 2)		FHSS
g1		25 mW e.r.p. Power density: - 4.5 dBm/100 kHz (note 7)	≤ 0.1% duty cycle or LBT+AFA (notes 1, 5 and 6)	Not specified		DSSS and other wideband techniques other than FHSS
		25 mW e.r.p.	≤ 0.1% duty cycle or LBT+AFA (notes 1 and 5)	≤ 100 kHz, for 1 or more channels modulation bandwidth ≤ 300 kHz (note 2)		Narrow /wide-band modulation
g1.1	868.000-868.600 MHz (note 4)	25 mW e.r.p.	≤ 1% duty cycle or LBT+AFA	Not specified, for 1 or more		Narrow / wide-band modulation. No channel spacing, however the whole

	Frequency Band	Power / Magnetic Field Spectrum access and mitigation requirements		Modulation/ maximum ECC/ERC occupied deliverable bandwidth		Notes
			(note 1)	channels (note 2)		stated frequency band may be used
g1.2	868.700-869.200 MHz (note 4)	25 mW e.r.p.	≤ 0.1% duty cycle or LBT+AFA (note 1)	Not specified, for 1 or more channels (note 2)		Narrow / wide-band modulation. No channel spacing, however the whole stated frequency band may be used
g1.3	869.400-869.650 MHz	500 mW e.r.p.	≤ 10% duty cycle or LBT+AFA (note 1)	Not specified, 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
g1.4	869.700-870.000 MHz (note 11)	5 mW e.r.p. 25 mW e.r.p.	No requirement ≤1% duty cycle or LBT+AFA (note 1)	Not specified for 1 or more channels		Narrow / wide-band modulation. No channel spacing, however the whole stated frequency band may be used
g2	870-876 MHz	25 mW e.r.p.	≤ 0.1% duty cycle For ER-GSM protection (873-876 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s	≤ 200 kHz		This frequency band is also identified in Annexes 2 and 5
g2.1	870.000-875.800 MHz	25 mW e.r.p.	≤ 1% duty cycle For ER-GSM protection (873-875.8 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit	≤ 600 kHz		The frequency band is also identified in Annexes 2 and 5

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
			on time of 5ms/1s			
g3	915-921 MHz	25 mW e.r.p.	≤ 0.1% duty cycle For ER-GSM protection (918-921 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s	≤ 200 kHz		The frequency band is also identified in Annexes 10 and 11
g3.1	915.200-920.800 MHz	25 mW e.r.p. except for the 4 channels identified in note 9 where100 mW e.r.p. applies	≤ 1% duty cycle (note 10) For ER-GSM protection (918-920.8 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s	≤ 600 kHz except for the 4 channels identified in note 9 where ≤ 400 kHz applies		The frequency band is also identified in Annexes 10 and 11
h	2400.0-2483.5 MHz	10 mW e.i.r.p.	No requirement	Not specified		The frequency band is also identified in Annexes 3 and 6
i	5725-5875 MHz	25 mW e.i.r.p.	No requirement	Not specified		
j	24.00-24.25 GHz	100 mW e.i.r.p.	No requirement	Not specified		The frequency band is also identified in Annex 5
k	61.0-61.5 GHz	100 mW e.i.r.p.	No requirement	Not specified		
k1	57-64 GHz	100 mW e.i.r.p., a max. transmitter output power of 10 mW, and a power density	No requirement	Not specified		

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
		limited to 13 dBm/MHz e.i.r.p. applies				
I	122.0-122.25 GHz	10 dBm e.i.r.p/ 250 MHz and -48 dBm/MHz at >30° elevation	(note 8)	Not specified		
I1	122.25-123.0 GHz	100 mW e.i.r.p.	No requirement	Not specified		
m	244-246 GHz	100 mW e.i.r.p.	No requirement	Not specified		
n	3.1-4.8 GHz 6 - 9 GHz	*	*	*	ECC/DEC/(06)04	Generic UWB regulation * See detailed requirements in the related ECC Decision
n1	6.0-8.5 GHz	*	*	*	ECC/DEC/(12)03	UWB on-board aircraft regulation * See detailed requirements in the related ECC Decision

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 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.

Note 8: These limits should be measured with an rms detector and an averaging time of 1 ms or less.

Note 9: The available channel centre frequencies are 916.3 MHz. 917.5 MHz. 918.7 MHz and 919.9 MHz. The channel bandwidth is 400 kHz.

Note 10: RFID tag emissions responding to RFID interrogators operating on centre frequencies 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz are not duty cycle limited.

Note 11: 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.

Additional Information

Harmonised Standards

EN 300 220	sub-bands c) to g3.1)
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), l1) and m)
EN 302 065	sub-band n)
EN 302 500	sub-band 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 - l and m are also designated for industrial, scientific and medical (ISM) applications as defined in ITU Radio Regulations.

Band g1):

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.

Sub-bands g2) to g3.1):

Use of all or part of sub-bands g2) to g3.1) may be denied in some European countries that use all or part of these sub-bands for defence/governmental systems. In other countries that use sub-bands 873-876 / 918-921 MHz for GSM for railways, extended band (ER-GSM), access to the part 873-876 / 918-921 MHz by non-specific SRD applications require implementing additional mitigation measures such as transmission timing limitations as set out in ECC Report 200. See Appendix 3 for national implementation concerning ER-GSM and defence/governmental services.

The adjacent frequency bands below 915 MHz and above 876 MHz as well as 921 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:

- Emergency detection of buried victims and valuable items such as detecting avalanche victims;
- Meter Reading;
- **Sensors** (water, gas and electricity; meteorological instruments; pollution measurement; environmental data, such as levels of allergens (pollen, dust), electromagnetic pollution (solar activity), noise) and **actuators** (controlling devices such as street or traffic lights);
- Medical Body Area Network Systems (MBANS), used for medical data acquisition, are intended to be used in healthcare facilities and patients' homes. They are low power area network systems used for the transmission of non-voice data to and from medical devices for the purposes of monitoring, diagnosing and treating patients as prescribed by duly authorised healthcare professionals and are defined in the context of medical applications only;
- Wireless Industrial Applications (WIA) to be used for wireless links in industrial environments including monitoring and worker communications, wireless sensors and actuators.

Table 2: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	456.9-457.1 kHz	7 dBμA/m at 10 m	No requirement	Continuous wave (CW) – no modulation		Emergency detection of buried victims and valuable items. Note: Centre frequency is 457 kHz
b	169.400-169.475 MHz	500 mW e.r.p.	≤ 10% duty cycle	≤ 50 kHz	ECC/DEC/(05)02	Meter Reading. The frequency band is also identified in Annex 1
С	870.000-875.600 MHz	870.000-875.600 MHz 500 mW e.r.p. ≤ 2.5% duty cycle and APC required (note 1). For ER-GSM protection (873-875.6MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum		≤ 200 kHz		Individual license may be required for Metropolitan / Rural Area Networks. Adaptive Power Control (APC) required. The APC Control is able to reduce a link's transmit power from its

	Frequency Band	equency Band Power / Spectrum access and mitigation requirements		Modulation/ maximum occupied bandwidth ECC/ERC deliverable		Notes
			transmit on time of 5ms/1s (note 2)			maximum to ≤ 5 mW. The frequency band is also identified in Annexes 1 and 5
d1	2483.5-2500 MHz	1 mW e.i.r.p.	Adequate spectrum sharing mechanisms (e.g. Listen-Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and ≤ 10% duty cycle	≤ 3 MHz		The frequency band is also identified in Annex 12. The application is for MBANS, indoor only within healthcare facilities
d2	2483.5-2500 MHz	10 mW e.i.r.p.	Adequate spectrum sharing mechanisms (e.g. Listen-Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and ≤ 2% duty cycle	≤ 3 MHz		The frequency band is also identified in Annex 12. The application is for MBANS, indoor only within the patient's home
е	5725-5875 MHz	≤ 400 mW e.i.r.p.	APC required Adequate spectrum sharing mechanisms (e.g. DFS and DAA) shall be implemented (note 3)	≥ 1 MHz and ≤ 20 MHz		Wireless Industrial Applications (WIA). Registration and/or notification may be required. The Adaptive Power Control is able to reduce the e.i.r.p. to ≤ 25 mW. The frequency band is also identified in Annex 1

Note 1: a duty cycle of up to 10% may be allowed for network relay points forming part of metropolitan/rural area networks such as for utilities or other applications for the purpose of data acquisition. Network relay points should be individually licensed. National regulatory authorities may consider the provision of general authorisations (options as defined in ECC Report 132) for network relay points forming part of metropolitan/rural area networks which have implemented additional Listen-Before-Talk (LBT) and frequency/channel agility/adaptivity mitigation techniques and/or coordination in geographic areas of a high number of network relay points.

Note 2: except if a procedure with the railway operator is employed (e.g. coordination or cognitive techniques) in order to avoid interference into occupied ER-GSM channels.

Note 3: DFS is required in the frequency range 5725-5850 MHz to ensure an appropriate protection to the radiolocation service (including frequency hopping radars), DAA is required in the frequency range 5855-5875 MHz for the protection of BFWA, and in the frequency range 5795-5815 MHz for the protection of TTT applications.

Additional Information

Harmonised Standards

EN 300 718 sub-band a)
EN 300 220 sub-band b)
EN 303 204 sub-band c)
EN 303 203 sub-bands d1) and d2)
EN 303 258 sub-band e) for WIA systems is under development

Technical parameters also referred to in the harmonised standard

No information

Frequency issues

Sub-bands d1) and d2):

MBANS equipment shall implement a spectrum access mechanism as described in the applicable harmonised European standard EN 303 203 or an equivalent spectrum access mechanism. Based on the assumptions used in ECC Report 201, the modulation bandwidth for MBANS shall not exceed 3 MHz.

Sub-band c):

Use of all or part of sub-band d may be denied in some European countries that use all or part of these sub-bands for defence/governmental systems. In other countries that use sub-band 873-876 MHz for GSM for railways, extended band (ER-GSM), access to the part 873-876 MHz by non-specific SRD applications require implementing additional mitigation measures such as transmission timing limitations as set out in ECC Report 200. See Appendix 3 for national implementation concerning ER-GSM and defence/governmental services.

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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	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	Not specified		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.	Not specified		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)

Technical parameters also referred to in the harmonised standard

No information

Frequency issues

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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	27.090-27.100 MHz	42 dBµA/m at 10 m	No requirement	Not specified		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	Not specified		Transmitting only on receipt of a Balise / Eurobalise tele- powering signal from a train. Note: Centre frequency is 4234 kHz
С	7.3-23.0 MHz	-7 dBμA/m at 10m	No requirement	Not specified		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	Not specified		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)

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.

Frequency issues

ANNEX 5: TRANSPORT AND TRAFFIC TELEMATICS (TTT)

Scope of Annex

This annex covers frequency bands and regulatory as well as informative parameters recommended for radio systems used in the field of transport and traffic telematics (road, rail and water depending on the relevant technical restrictions), traffic management, and navigation and mobility management. Typical applications are used for interfaces between different modes of transport, communication between vehicles (e.g. car-to-car), between vehicles and fixed locations (e.g. car-to-infrastructure), Communication from and to users as well as radar system installations. Automotive radar is defined as a moving radar device supporting functions of the vehicle.

Table 5: Regulatory parameters

ı	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	870.000-875.800 MHz	500 mW e.r.p.	≤ 0.1% duty cycle For ER-GSM protection (873-875.8MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s	≤ 500 kHz		500 mW restricted to vehicle-to-vehicle applications. 100 mW is restricted to in-vehicle applications. Adaptive Power Control (APC) is required. The APC is able to reduce a link's transmit power from its maximum to ≤ 5 mW. The frequency band is also identified in Annexes 1 and 2
b1	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
b2	5805-5815 MHz	2 W e.i.r.p. 8 W e.i.r.p.	No requirement			Individual license may be required
С	76-77 GHz	55 dBm peak e.i.r.p.	No requirement	Not specified		50 dBm average power or 23.5 dBm average power for pulse radar only. For ground based vehicle and infrastructure systems only. The frequency band is also included in Annex 4
d1	21.65-26.65 GHz	*	*	*	ECC/DEC/(04)10	For automotive Short Range Radars (SRR). * See detailed requirements in related ECC Decision.

i	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
						New SRR equipment shall not be placed onto the market as of 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 automotive radars
f2	24.075-24.150 GHz	0.1 mW e.i.r.p. 100 mW e.i.r.p.	No requirement ≤ 4µs/40 kHz dwell time every 3ms ≤ 1ms/40 kHz dwell time every 40ms			For automotive radars For automotive radars (road vehicles only). 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. 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 For automotive radars (road vehicles only). 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
f3	24.150-24.250 GHz	100 mW e.i.r.p.	No requirement			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 For automotive radars (road vehicles only)

ı	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes	
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 as a complementary to designation f1 to f3 as	
g3	24.250-24.500 GHz	+20 dBm e.i.r.p.	≤ 5.6%/s/25 MHz duty cycle			described in ECC Report 164	
		+16 dBm e.i.r.p.	≤ 2.3%/s/25 MHz duty cycle				

Additional Information

Harmonised Standards

EN 300 220 sub-band a)

EN 300 674 sub-bands b1) and b2)

EN 301 091 sub-band c)

EN 302 288 sub-bands d1) and d2)

EN 302 264 sub-band e)

EN 302 858 sub-bands f1) to f3) and g1) to g3)

Technical parameters also referred to in the harmonised standard

No information

Frequency issues

Sub-band a1:

Use of sub-band a) may be denied in some European countries that use all or part of this band for defence/governmental systems. In other countries that use sub-band 873-876 MHz for GSM for railways, extended band (ER-GSM), access to the part 873-876 MHz by automotive SRD applications requires implementing additional mitigation measures such as transmission timing limitations as set out in ECC Report 200. See Appendix 3 for national implementation concerning ER-GSM and defence/governmental services.

Sub-bands f1, f2, f3 as well as d1 and d2:

Note that the regulation in the bands f1, f2, f3 for the band 24.05-24.25 GHz for automotive radars is without any plans for a time limit within CEPT (see document ECC(15)058). Only the bands d1 and d2 for Short Range Radar (SRR) are time limited.

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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	2400.0-2483.5 MHz	25 mW e.i.r.p.	No requirement	Not specified	ERC/DEC/(01)08	
b	9200-9500 MHz	25 mW e.i.r.p.	No requirement	Not specified		
С	9500-9975 MHz	25 mW e.i.r.p.	No requirement	Not specified		
d	10.5-10.6 GHz	500 mW e.i.r.p.	No requirement	Not specified		
е	13.4-14.0 GHz	25 mW e.i.r.p.	No requirement	Not specified		
f	24.05-24.25 GHz	100 mW e.i.r.p.	No requirement	Not specified		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	Not specified		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	Not specified		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	No requirement	Not specified		For Tank Level Probing Radar (TLPR)

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
		structure				
j	57-64 GHz	-41.3 dBm/MHz e.i.r.p. outside the enclosed test tank structure	No requirement	Not specified		For Tank Level Probing Radar (TLPR)
k	75-85 GHz	-41.3 dBm/MHz e.i.r.p. outside the enclosed test tank structure	No requirement	Not specified		For Tank Level Probing Radar (TLPR)
I	6.0-8.5 GHz	*	*	Not specified	ECC/DEC/(11)02	For Industrial Level Probing Radar (LPR). *See detailed requirements in related ECC Decision
m	24.05-26.5 GHz	*	*	Not specified	ECC/DEC/(11)02	For Industrial Level Probing Radar (LPR). *See detailed requirements in related ECC Decision
n	57-64 GHz	*	*	Not specified	ECC/DEC/(11)02	For Industrial Level Probing Radar (LPR). *See detailed requirements in related ECC Decision
o	75-85 GHz	*	*	Not specified	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	Not specified		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
s1	3.1-4.8 GHz	*	*	*	ECC/REC/(11)09	For UWB Location Tracking Systems Type 2 (LT2), subject to an appropriate licensing regime. * See detailed requirements in related ECC Recommendation

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
;	3.1-4.8 GHz	*	*	*	ECC/REC/(11)10	For UWB Location tracking application for emergency and disaster situations (LAES), subject to an appropriate licensing regime. * See detailed requirements in related ECC Recommendation

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)
EN 302 065 sub-bands s1), and s2)

Technical parameters also referred to in the harmonised standard

No information

Frequency issues

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-band d).

Table 7: Regulatory parameters

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	868.600-868.700 MHz	10 mW e.r.p.	≤ 1.0 % duty cycle	25 kHz		The whole frequency band may also be used as 1 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		

Additional Information

Harmonised Standards

EN 300 220 all sub-bands

Technical parameters also referred to in the harmonised standard

No information

Frequency issues

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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	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 all sub-bands

Technical parameters also referred to in the harmonised standard

No information

Frequency issues

ANNEX 9: INDUCTIVE APPLICATIONS

Scope of Annex

This annex covers frequency bands and regulatory as well as informative parameters recommended for inductive applications including for example car immobilisers, radio frequency identification (RFID) applications such as 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 (e.g. NFC) and wireless control systems, animal identification, cable detection, wireless voice links, automatic road tolling and anti-theft systems including RF anti-theft induction systems (e.g. EAS). 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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
a1	9 - 90 kHz	72 dBμA/m at 10m (note 1)	No requirement	Not specified		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	Not specified		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	Not specified		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	Not specified		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	Not specified		In case of external antennas only loop coil antennas may be employed
d	6765-6795 kHz	42 dBμA/m at 10m	No requirement	Not specified		
е	7400-8800 kHz	9 dBμA/m at 10m	No requirement	Not specified		
f	13.553-13.567 MHz	42 dBμA/m at 10m	No requirement	Not specified		
f1	13.410-13.553 MHz	9 dBµA/m at 10m	No requirement	Not		For RFID only, Only in connection with band f

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
	13.567-13.710 MHz			specified		
	13.110-13.410 MHz 13.710-14.010 MHz	-3.5 dBµA/m at 10m	No requirement	Not specified		For RFID only, Only in connection with band f
	12.660-13.110 MHz 14.010-14.460 MHz	-10 dBµA/m at 10m	No requirement	Not specified		For RFID only, Only in connection with band f
	11.810-12.660 MHz 14.460-15.310 MHz	-16 dBµA/m at 10m	No requirement	Not specified		For RFID only, Only in connection with band f
f2	13.553-13.567 MHz	60 dBµA/m at 10m	No requirement	Not specified		For RFID and EAS only
f3	13.460-13.553 MHz 13.567-13.660 MHz	27 dBμA/m at 10m	No requirement	Not specified		For RFID only, Only in connection with band f2
	13.360-13.460 MHz 13.660-13.760 MHz	Linear transition from 27 to -3.5 dBµA/m at 10m	No requirement	Not specified		For RFID only, Only in connection with band f2
	13.110-13.360 MHz 13.760-14.010 MHz	-3.5 dBµA/m at 10m	No requirement	Not specified		For RFID only, Only in connection with band f2
	12.660-13.110 MHz 14.010-14.460 MHz	-5 dBμA/m at 10m	No requirement	Not specified		For RFID only, Only in connection with band f2
g	26.957-27.283 MHz	42 dBμA/m at 10m	No requirement	Not specified		
h	10.200-11.000 MHz	9 dBμA/m at 10m	No requirement	Not specified		
k	3155-3400 kHz	13.5 dBµA/m at 10m	No requirement	Not specified		In case of external antennas only loop coil antennas may be employed
11	148.5 kHz - 5 MHz	-15 dBµA/m at 10 m	No requirement	Not specified		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	Not		In case of external antennas only loop coil antennas

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
				specified		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	Not specified		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
No	te 1: The limit is reduce	d to 42 dBµA/m at 10 m ac	cording to Table 10			

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 all sub-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.

Sub-bands f) and f2):

RFIDs operating in the frequency band 13.56 MHz shall meet the spectrum masks given in the EN 300 330. This will permit the simultaneous use of the subband f) together with the limits the sub-bands f1), I1) and I2). The same applies for the sub-band f2) in in conjunction with the limits in sub-band f3).

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.

ANNEX 10: RADIO MICROPHONE APPLICATIONS INCLUDING ASSISTIVE LISTENING DEVICES (ALD)

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 Assistive Listening Devices (ALD) (also referred to as aids for the hearing impaired). 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 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 Assistive Listening Devices (ALD).

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:

- ALD: sub-bands b), c), c1), h1), h2), i)
- Radio microphones: sub-bands a), c), d), e1), e2), e3), e4), f), g), g1), j).

ALD 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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	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. Individual licence may be required
b	173.965-216 MHz	10 mW e.r.p.	Notes 1 and 2 requirement	≤ 50 kHz	ECC Report 230	For Assistive Listening Device (ALD) systems. On a tuning range basis. Individual licence may be required
С	863-865 MHz	10 mW e.r.p.	No requirement	Not specified		The frequency band is also identified in Annex 13

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
c1	916.1-916.5 MHz, 917.3-917.7 MHz, 918.5-918.9 MHz, 919.7-920.1 MHz	10 mW e.r.p.	≤ 25 % duty cycle	≤ 400 kHz		Indoor Digital Assistive Listening Device systems. The frequency band is also identified in Annexes 1 and 11
d	174-216 MHz	50 mW e.r.p.	No requirement	Not specified		On a tuning range basis. Individual licence may be required
e1	470-786 MHz	50 mW e.r.p.	No requirement	Not specified		On a tuning range basis. Individual licence may be required
e2	786-789 MHz	12 mW e.r.p.	No requirement	Not specified		On a tuning range basis. Individual licence may be 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 may be required. 100 mW restricted to body worn equipment. 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 may be 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	Not specified		Individual licence may be required. 50 mW restricted to body worn equipment
g	1795-1800 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	No requirement	Not specified		Individual licence may be required. 50 mW restricted to body worn equipment. The frequency band is also identified in Annex 13
g1	1800-1804.8 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	No requirement	Not specified		Individual licence may be required. 50 mW restricted to body worn equipment
h1	169.4000-169.4750 MHz	10 mW e.r.p.	No requirement	≤ 50 kHz	ECC/DEC/(05)02	Assistive Listening Device (ALD). (Personal Hearing Aid System)
		500 mW e.r.p.	No requirement	≤ 50 kHz	ECC/DEC/(05)02	Assistive Listening Device (ALD).

Frequency Band		Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
						(Public Hearing Aid System). Individual licence may be required
h2	169.4875-169.5875 MHz	10 mW e.r.p.	No requirement	≤ 50 kHz	ECC/DEC/(05)02	Assistive Listening Device (ALD). (Personal Hearing Aid System)
		500 mW e.r.p.	No requirement	≤ 50 kHz	ECC/DEC/(05)02	Assistive Listening Device (ALD). (Public Hearing Aid System). Individual licence may be required
ı	169.4-174.0 MHz	10 mW e.r.p.	No requirement	≤ 50 kHz		Assistive Listening Device (ALD). On a tuning range basis
j	1492- 1518 MHz	50 mW e.i.r.p	No requirement	Not specified		On a tuning range basis. Individual licence required. Restricted to indoor use

Note 1: a threshold of 35 dBµV/m is required to ensure the protection of a DAB receiver located at 1.5m from the ALD device, subject to DAB signal strength measurements taken around the ALD operating site.

Note 2: the ALD device should operate under all circumstances at least 300 kHz away from the channel edge of an occupied DAB channel.

Additional Information

Harmonised Standards

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

Technical parameters also referred to in the harmonised standard

No information

Frequency Issues

Sub-band b):

ECC Report 230 provides information on ALD frequency issues in the frequency band 174-216 MHz including an example for an on-site measurement procedure. It should be noted that ALD applications are a secondary, un-protected application and may need to move in frequency, if changes of the primary service take place.

Sub-band c1):

The available channel centre frequencies are 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.

Use of all or part of sub-band c1) may be denied in some European countries that use all or part of these sub-bands for defence/governmental systems or, in some countries that use sub-band 918-921 MHz for GSM for railways, extended band (ER-GSM). See Appendix 3 for national implementation concerning ER-GSM and defence/governmental services.

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.

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

Frequency Band		Power / Magnetic Field	Spectrum access and mitigation requirements	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
a1	2446-2454 MHz	≤ 500 mW e.i.r.p.	No requirement	Not specified		
a2	2446-2454 MHz	> 500 mW to 4 W e.i.r.p	≤ 15% duty cycle FHSS techniques should be used	Not specified		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		
С	915-921 MHz	4 W e.r.p. (note 1)	For ER-GSM protection (918-921 MHz, where applicable), DAA is required	≤ 400 kHz		The frequency band is also identified in Annexes 1 and 10. Operation only when necessary to perform the intended operation, i.e. when RFID tags are expected to be present

Note 1: Interrogator transmissions in band c at 4 W e.r.p, are only permitted within the four channels centred at 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz; each with a maximum bandwidth of 400 kHz.

Additional Information

Harmonised Standards

EN 300 440 Sub-bands a1) and a2)

EN 300 761 Sub-band a1)

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

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.

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.

Sub-band c):

Use of all or part of sub-band c) may be denied in some European countries that use all or part of these sub-bands for defence/governmental systems. In other countries that use sub-band 918-921 MHz for GSM for railways, extended band (ER-GSM), access to the part 918-921 MHz by UHF RFID applications requires implementation of additional mitigation measures such as Detect-And-Avoid (DAA) as set out in ECC Report 200. See Appendix 3 for national implementation concerning ER-GSM and defence/governmental services.

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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	9-315 kHz	30 dBµA/m at 10m	≤ 10% duty cycle	Not specified		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	Not specified		The application is for animal implantable devices
С	30.0-37.5 MHz	1 mW e.r.p.	≤ 10% duty cycle	Not specified		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	Not specified		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 or an equivalent spectrum access mechanism	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

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)

Technical parameters also referred to in the harmonised standard No information.

Frequency issues

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 and multimedia streaming 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	Modulation/ maximum occupied bandwidth	ECC/ERC deliverable	Notes
а	863-865 MHz	10 mW e.r.p.	No requirement	Not specified		Wireless Audio and Multimedia Streaming Devices. The frequency band is also identified in Annex 10
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	Not specified	<u> </u>	The frequency band is also identified in Annex 10
d	87.5-108.0 MHz	50 nW e.r.p.	No requirement	200 kHz		

Additional Information

Harmonised Standards

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

EN 300 220 sub-band b)

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.

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.

APPENDIX 1: NATIONAL IMPLEMENTATION

The CEPT country codes (abbreviations) can be seen under http://www.cept.org/cept/cept-country-codes

The CEPT country codes (abbreviation																																
Annexes to ERC/REC 70-03	ΑՄΤ	BEL	BUL	CZE	CYP	DNK	EST	FIN	F	D	HRV	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	Υ	Υ	Υ
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	Υ	Υ	Υ
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	Υ	Υ	Υ
Annex 1C1: 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	Υ	Υ	Υ
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	Υ	Υ	Υ
Annex 1E: 138.20-138.45 MHz	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	N	N	Υ	Υ	N	Υ	Υ	N	N	N	Υ	Υ	Υ	N	Υ	N	Υ	Υ	N	N	N	N	N	Υ
Annex 1E1: 169.4000-169.4750 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	Υ
Annex 1E2: 169.4000-169.4875 MHz DEC/(05)02	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	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 1E3: 169.4875-169.5875 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	Υ	Υ	Υ
Annex 1E4: 169.5875-169.8125 MHz J	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	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 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	Υ	Υ	Υ
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	Υ	Υ	Υ
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	Υ	Υ	Υ
Annex 1G1: 863-870 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	L	Υ	N	Υ
Annex 1G1.1: 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	Υ	Υ	Υ
Annex 1G1.2: 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	Υ	Υ	Υ
Annex 1G1.3: 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	Υ	Υ	Υ
Annex 1G1.4: 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	Υ	Υ	Υ
Annex 1G2: 870-876 MHz	U	N	N	N	N	Υ	N	L	Ν	N	Ν	N	N	N	N	N	N	L	Ν	N	N	Ν	N	N	N	N	Υ	Υ	N	L	Υ	Υ
Annex 1G2.1: 870.000-875.800 MHz	U	N	N	N	N	Υ	N	L	N	N	N	N	N	N	N	N	N	L	N	N	N	Ν	N	N	N	N	Υ	Υ	N	L	Υ	Υ
Annex 1G3: 915-921 MHz	U	N	N	N	N	Υ	N	N	N	N	N	N	N	N	N	N	N	L	Ν	N	N	Ν	N	N	N	N	Υ	Υ	N	L	Υ	Υ
Annex 1G3.1: 915.2-920.8 MHz	U	N	N	N	N	Υ	N	N	N	N	Ν	N	N	N	N	N	N	L	N	N	N	Ν	N	N	N	N	Υ	Υ	N	L	Υ	Υ
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	Υ	Υ	Υ
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	Υ	Υ	Υ
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	Υ	Υ	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	Υ	Υ	Υ
Annex 1K1: 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	Υ	Υ	Υ
Annex 1L: 122.00-122.25 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	Υ	Υ	Υ
Annex 1L1: 122.25-123.00 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	Υ	Υ	Υ
Annex 1M: 244-246 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	Υ	Υ	Υ
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	Υ		Υ
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	Υ		Υ
Annex 1N1: 6.0-8.5 GHz DEC/(12)03	Р	Р	Р	P	Р	Υ	Υ	Y	Р	Р	Υ	Р	L	Р	Р	Р	Р	Υ	L	Υ	Р	Υ	Р	Р	Р	Р	Р	Y	P	Υ	Р	L
Highlighted yellow = not implemented			Y=im	oleme	nted			L=lim	ited	imple	menta	ation							P=pla	annec								U=un	der st	udy		

Annexes to ERC/REC 70-03	ALIT	BEI	BH	CZE	CVP	DNK	EST.	FIN	F	п	HRV	GRC	HNG	ISI	IRI	1	ΙVΔ	LIE	LTH	LIIX	MIT	HOL	NOR	POL	POR	ROLL	SVK	SVN	F	SHI	9	G
Annex 2 - Tracking, Tracing and Data Acquisitio		DLL	DOL	CZL	CIF	DINK	LOI	IIIN		ע	IIIXV	GILC	TING	IJL	IIXL	•	LVA		LIU	LUX	IVILI	Ю	NOIN	FOL	FOR	NOU	JVK	SVIV	_	301	3	J
Annex 2A: (*457 kHz) 456.9-457.1 kHz	Y	Y	Υ	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	Υ	Υ	Υ	Υ
Annex 2B: 169.400-169.475 MHz DEC/(05)02	Y	Y	Y	Y	Y	Y	Y	Y	Ϋ́	Y	Ϋ́	Y	Y	Y	Y	Y	Y	Ϋ́	Y	Υ	Y	Ϋ́	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Annex 2C: 870.000-875.600 MHz	U	N	N	N	N	Y	N	L	N	N	N	N	N	N	N	N	N	Р	N	N	N	N	N	N	N	N	N	Y	N	Р	N	Y
Annex 2D1: 2483.5-2500 MHz	Y	N	N	N	N	Y	N	P	N	Υ	N	N	N	N	N	N	N	Y	N	N	N	Р	N	N	N	N	N	Y	N	Y	N	N
Annex 2D2: 2483.5-2500 MHz	Y	N	N	N	N	Y	N	P	N	Y	N	N	N	N	N	N	N	Y	N	N	N	P	N	N	N	N	N	Y	N	Y	N	N
Annex 2E: 5725-5875 MHz		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>				<u> </u>	<u> </u>			<u> </u>					P							-			
Annex 3 - Wideband Data Transmission Systems		_			_					_						_		_				_										\dashv
Annex 3A: 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	Υ	Υ	Υ
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	Υ	Υ	Υ
Annex 4 - Railway Applications																																\blacksquare
Annex 4A: (*27.095 MHz) 27.090-27.100 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	Υ
Annex 4B: (*4234 kHz) 984-7484 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	Υ
Annex 4C: (*13.547 MHz) 7.3-23.0 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	Υ
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	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Annex 5 - Transport and Traffic Telematics - TTT	-																															
Annex 5A: 870.000-875.800 MHz	N	N	N	N	N	Υ	N	L	N	N	N	N	N	N	N	N	N	L	N	N	N	N	N	N	N	N	N	Υ	N	L	N	Υ
Annex 5B.1: 5795–5805 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	L	Υ	Υ	L	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	L
Annex 5B.2: 5805-5815 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Р	Υ	Υ	Υ	L	Υ	Υ	L	Υ	Υ	L	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	L
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	Υ	Υ	Υ
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	Υ	Υ	Υ
Annex 5D2: 24.25-26.65 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	Υ	Υ	Υ
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	Υ	Υ	Υ
Annex 5F1: 24.050-24.075 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	Υ	Υ	Υ
Annex 5F2: 24.075-24.150 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	Υ	Υ	Υ
Annex 5F3: 24.150-24.250 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	Υ	Υ	Υ
Annex 5G1: 24.250-24.495 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	Υ	Υ	Υ
Annex 5G2: 24.495-24.500 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	Υ	Υ	Υ
Annex 5G3: 24.250-24.500 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	Υ	Υ	Υ
Annex 6 - Radiodetermination applications																																\blacksquare
Annex 6A: 2400.0-2483.5 MHz DEC/(01)08	Υ	_	Υ	Υ	Υ	Υ	Υ	Υ	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 6B: 9200-9500 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Ν	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	N	L
Annex 6C: 9500-9975 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	N	Υ	N	L
Annex 6D:10.5-10.6 GHz	N	Υ	Υ	N	Υ	Υ	N	L	L	N	Υ	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	Ν	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	N	Υ
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	Υ	Υ	L
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	Υ	Υ	Υ
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	Υ	Υ	Υ
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	Υ	Υ	Υ
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	Υ	Υ	Υ
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	Υ	Υ	Υ
Annex 6L: 6.0-8.5 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	Y	Υ	Υ	Υ	Υ
Annex 6M: 24.05-26.5 GHz DEC(11)02	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	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 6N: 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	Υ	Υ	Υ
Annex 60: 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	Υ	Υ	Υ
*)Center frequency for the band																																
Highlighted yellow = not implemented			Y=im	plemei	nted			L=lim	ited	imple	menta	ation							P=pla	annec	t							U=und	der st	tudy		

Annex 6S1: 3.1-4.8 GHz REC/(11)09 U NAMEX 6S2: 3.1-4.8 GHz REC/(11)10 U NAMEX 7- Alarms Annex 7- Alarms Annex 7A: 868.600-868.700 MHz Y Y Y Y ANNEX 7C: 869.650-869.300 MHz Y Y Y Y ANNEX 7D: 869.250-869.250 MHz Y Y Y Y ANNEX 7D: 869.200-869.250 MHz Y Y Y Y ANNEX 7E: 869.300-869.400 MHz Y Y Y Y ANNEX 8- Model Control Annex 8- Model Control Annex 8- Model Control Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Y ANNEX 8- Model Control Annex 9- Inductive Applications Annex 9- Inductive Applications Annex 9A1: 9-90 kHz Y Y Y Y ANNEX 9A2: 90-119 kHz Y Y Y Y ANNEX 9A3: 119-135 kHz Y Y Y Y ANNEX 9B: 135-140 kHz Y Y Y Y Y ANNEX 9C 140.0-148.5 kHz Y Y Y Y Y ANNEX 9C 140.0-148.5 kHz Y Y Y Y Y ANNEX 9C 140.0-148.5 kHz Y Y Y Y Y Y ANNEX 9C 140.0-148.5 kHz	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y P P Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y N N N Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y L Y U P Y Y Y Y Y L L	Y	Y Y N L Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y N N Y Y Y Y Y Y	Y L Y N N N Y Y	Y N L V Y Y Y Y Y Y	Y	Y U L N N Y Y Y Y Y	Y Y Y	Y Y L Y Y Y	Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y Y	Y Y Y Y Y Y	Y Y L U U Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y U L N Y Y Y Y	Y Y Y U Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y
Annex 6Q: 30 MHz-12.4 GHz DEC/(06)08 L U Y Annex 6R: 2.2-8.0 GHz DEC/(07)01 L Y Y Annex 6S1: 3.1-4.8 GHz REC/(11)09 U N Annex 6S2: 3.1-4.8 GHz REC/(11)10 U N Annex 6S2: 3.1-4.8 GHz REC/(11)10 U N Annex 7- Alarms Annex 7- Alarms Annex 7- 868.600-868.700 MHz Y Y Y Y Annex 7B: 869.250-869.300 MHz Y Y Y Y Y Annex 7C: 869.650-869.700 MHz Y Y Y Y Y Annex 7D: 869.200-869.250 MHz Y Y Y Y Y Annex 7B: 869.300-869.400 MHz Y Y Y Y Y Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Y Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Y Annex 9- Inductive Applications Annex 9- Inductive Applications Annex 9-15.5140 kHz Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Annex 9C: 140.0-148.5 kHz Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9B: 7400-8800 kHz Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y Y Y Y Y	Y Y P P Y Y Y Y Y Y	Y	L Y U P Y Y Y Y Y	Y	/ N / L / Y / Y / Y	Y Y Y Y Y Y Y	Y N N Y Y Y Y Y Y	L Y N N Y Y Y	N L Y Y Y	Y Y Y Y Y Y Y Y Y	U L N N Y Y Y Y	Y Y P P Y Y Y Y Y	Y L Y Y Y	Y P Y Y Y Y Y Y	Y Y Y Y Y Y Y	Y Y Y Y Y	Y L U U Y Y Y	Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y	U L N N Y	1 Y I Y V V V V V V V V V V V V V V V V V	N L L Y Y Y Y Y Y Y Y Y
Annex 6R: 2.2-8.0 GHz	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y Y Y	Y P P Y Y Y Y Y Y	Y N N N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y	Y	' L ' ' ' Y ' Y ' Y ' Y ' Y	Y Y Y Y Y Y Y Y Y Y Y	Y N N Y Y Y Y Y	Y N N Y Y Y Y	Y Y Y Y	Y Y Y Y Y Y Y Y	L N N Y Y	Y P P Y Y Y Y	Y Y Y	Y P Y Y Y Y Y Y Y	Y Y Y Y Y Y	Y	L U U Y Y Y	Y	Y Y Y Y Y	Y Y Y	L N N Y	Y I V V V V V V V V V	L L Y Y Y Y Y Y Y
Annex 6S1: 3.1-4.8 GHz REC/(11)09 U NAME AND	N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y Y Y	P P Y Y Y Y	N N Y Y Y Y Y	Y Y Y Y Y Y L	N	' Y ' Y ' Y ' Y ' Y ' Y ' Y	Y Y Y Y Y Y	N N Y Y Y Y	N N Y Y Y	Y Y Y	Y Y Y Y Y Y	N N Y Y Y	P P Y Y Y	Y Y Y	Р Y Y Y Y Y	Y Y Y Y Y	Y	U U Y Y	Y	Y Y Y Y	Y Y Y	N Y Y	U \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Y Y Y Y Y Y
Annex 6S2: 3.1-4.8 GHz REC/(11)10 U NAMEX 7- Alarms Annex 7- Alarms Annex 7A: 868.600-868.700 MHz Y Y Y Y Annex 7B: 869.250-869.300 MHz Y Y Y Y Annex 7C: 869.650-869.700 MHz Y Y Y Y Annex 7D: 869.200-869.250 MHz Y Y Y Y Annex 7E: 869.300-869.400 MHz Y Y Y Y Annex 8- Model Control Annex 8- Model Control Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Y Annex 8C: 40.665,40.675 40.685,40.695 MHz Y Y Y Y Annex 9- Inductive Applications Annex 9A1: 9-90 KHz Y Y Y Y Annex 9A2: 90-119 kHz Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Annex 9C: 140.0-148.5 KHz Y Y Y Y Annex 9D: 6765-6795 KHz Y Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz	N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y L	Y ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	' Y ' Y ' Y ' Y ' Y ' Y ' Y	Y Y Y Y Y Y Y	Y Y Y Y	Y Y Y Y	Y Y Y	Y Y Y Y Y Y Y Y	Y Y Y	Y Y Y Y	Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y	Y Y Y	Y Y	Y Y Y	Y Y Y	N Y Y	V '	Y Y Y Y Y Y
Annex 7- Alarms Annex 7A: 868.600-868.700 MHz Annex 7B: 869.250-869.300 MHz Annex 7C: 869.650-869.700 MHz Annex 7D: 869.200-869.250 MHz Annex 7E: 869.300-869.250 MHz Annex 7E: 869.300-869.400 MHz Y Y Y Annex 8- Model Control Annex 8A: 26.995,27.045,27.095, 27.145,27.195 MHz Y Y Y Annex 8B: 34.995-35.225 MHz Annex 8C: 40.665,40.675 40.685, 40.695 MHz Annex 9- Inductive Applications Annex 9A1: 9-90 KHz Annex 9A2: 90-119 kHz Annex 9A3: 119-135 kHz Annex 9B: 135-140 kHz Annex 9C: 140.0-148.5 kHz Annex 9D: 6765-6795 kHz Annex 9E: 7400-8800 kHz Annex 9F: 13.553-13.567 MHz	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y L	Y ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	' Y ' Y ' Y ' Y	Y Y Y Y	Y Y Y Y	Y Y Y	Y Y Y	Y Y Y Y Y Y Y	Y Y Y	Y Y Y Y	Y Y Y	Y Y Y Y	Y Y Y Y	Y Y	Y Y Y	Y Y	Y Y Y	Y Y	Y Y	Y '	Y Y Y Y
Annex 7A: 868.600-868.700 MHz	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y	Y Y Y Y	Y Y Y Y Y L	Y 'Y	' Y ' Y ' Y ' Y	Y Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y	Y Y	Y Y	Y Y	Υ	Υ	γ \	ΥY
Annex 7B: 869.250-869.300 MHz	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y	Y Y Y Y	Y Y Y Y Y L	Y 'Y	' Y ' Y ' Y	Y Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y	Y Y	Y Y	Y Y	Υ	Υ	γ \	ΥY
Annex 7C: 869.650-869.700 MHz Y Y Y Y Annex 7D: 869.200-869.250 MHz Y Y Y Y Y Annex 7E: 869.300-869.400 MHz Y Y Y Y Y Annex 8 - Model Control Annex 8A: 26.995,27.045,27.095,)27.145,27.195 MHz Y Y Y Y Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Y Annex 8C: 40.665,40.675 40.685, 40.695 MHz Y Y Y Y Annex 9A: 90-119 kHz Y Y Y Y Annex 9A: 90-119 kHz Y Y Y Y Annex 9A: 119-135 kHz Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Annex 9C: 140.0-148.5 kHz Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y	Y Y Y Y	Y Y Y Y	Y Y Y Y	Y Y Y Y Y Y	' Y ' Y ' Y	Y	Y	Y Y	Y Y	Y \	Y	Y	Y	Υ	Y Y	Y	Υ	Y	Υ	_	-		_
Annex 7D: 869.200-869.250 MHz Y Y Y Y Annex 7E: 869.300-869.400 MHz Y Y Y Y Y Annex 8 - Model Control Annex 8A: 26.995,27.045,27.095,)27.145,27.195 MHz Y Y Y Y Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Y Annex 8C: 40.665,40.675 40.685, 40.695 MHz Y Y Y Y Annex 9 - Inductive Applications Annex 9A1: 9-90 kHz Y Y Y Y Annex 9A2: 90-119 kHz Y Y Y Y Annex 9A3: 119-135 kHz Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz	Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y	Y Y Y Y	Y Y Y	Y Y Y Y	Y Y Y L	Y \ Y \ Y \ Y \ Y \ Y \ Y \ Y \ Y \ Y \	′ Y ′ Y	Y	Y	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	_	_		_	Υ	Υ	Υ	/ V
Annex 7E: 869.300-869.400 MHz Y Y Y Y Annex 8 - Model Control Annex 8A: 26.995,27.045,27.095,)27.145,27.195 MHz Y Y Y Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Annex 8C: 40.665,40.675 40.685, 40.695 MHz Y Y Y Annex 9 - Inductive Applications Annex 9A1: 9-90 kHz Y Y Y Annex 9A2: 90-119 kHz Y Y Y Annex 9A3: 119-135 kHz Y Y Y Annex 9B: 135-140 kHz Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y	Y Y Y Y Y Y Y Y Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y	Y Y L	Y	′ Y	Υ	Υ	_	$\overline{}$	_		_	_	-		\ /						-	. 1
Annex 8 - Model Control Annex 8A: 26.995,27.045,27.095,)27.145,27.195 MHz Y Y Y Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Annex 8C: 40.665,40.675 40.685, 40.695 MHz Y Y Y Annex 9 - Inductive Applications Annex 9A1: 9-90 kHz Y Y Y Annex 9A2: 90-119 kHz Y Y Y Annex 9A3: 119-135 kHz Y Y Y Annex 9B: 135-140 kHz Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y	Y Y Y Y Y Y Y Y Y	Y Y Y	Y Y Y	Y	Y	Y L	Ϋ́				Υ	Υ	ΥY	Υ	Υ	Υ	Υ		Υ	Υ	Υ	Υ	Υ	Υ	ΥÝ	ΥY
Annex 8A: 26.995,27.045,27.095,27.145,27.195 MHz Y Y Y Annex 8B: 34.995-35.225 MHz DEC/(01)11+12 Y Y Y Y Annex 8C: 40.665,40.675 40.685,40.695 MHz Y Y Y Y Annex 9 - Inductive Applications Annex 9A1: 9-90 kHz Y Y Y Y Annex 9A2: 90-119 kHz Y Y Y Y Annex 9A3: 119-135 kHz Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9E: 7400-8800 kHz Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Annex 9F: 13.553-13.567 MHz	Y Y Y Y Y Y Y Y	Y	Y	Y	Y	L	_	′ Y	Y	V							_	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥV	ΥY
Annex 8B: 34.995-35.225 MHz	Y Y Y Y Y Y Y Y	Y	Y	Y	Y	L	_	′ Y	Υ	V																
Annex 8C: 40.665,40.675 40.685,40.695 MHz Annex 9 - Inductive Applications Annex 9A1: 9-90 kHz Annex 9A2: 90-119 kHz Annex 9A3: 119-135 kHz Annex 9B: 135-140 kHz Annex 9C 140.0-148.5 kHz Annex 9D: 6765-6795 kHz Annex 9E: 7400-8800 kHz Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y	Y	Y	_		L	L \				Υ	Υ	ΥY	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥÝ	ΥY
Annex 9 - Inductive Applications Annex 9A1: 9-90 kHz Annex 9A2: 90-119 kHz Y Y Y Y Annex 9A3: 119-135 kHz Y Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	YY			Υ	Υ	-		′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥÝ	ΥY
Annex 9A1: 9-90 kHz Y Y Y Y Annex 9A2: 90-119 kHz Y Y Y Y Annex 9A3: 119-135 kHz Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y		Υ	V			Υ	ΥÝ	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥÝ	ΥY
Annex 9A2: 90-119 kHz Y Y Y Y Annex 9A3: 119-135 kHz Y Y Y Y Annex 9B: 135-140 kHz Y Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y		Υ	V																							
Annex 9A3: 119-135 kHz Y Y Y Annex 9B: 135-140 kHz Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y	ΥΥ		ıı	Υ	Υ	Υ	Ϋ́	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥÝ	ΥY
Annex 9B: 135-140 kHz Y Y Y Annex 9C 140.0-148.5 kHz Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y		Υ	Υ	Υ	Υ	Υ	Ϋ́	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥÝ	ΥY
Annex 9C 140.0-148.5 kHz Y Y Y Annex 9D: 6765-6795 kHz Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y	ΥΥ	Υ	Υ	Υ	Υ	Υ	Ϋ́	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥV	ΥY
Annex 9D: 6765-6795 kHz Y Y Y Annex 9E: 7400-8800 kHz Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y	ΥΥ	Υ	Υ	Υ	Υ	Υ	ΥÝ	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥÝ	ΥY
Annex 9E: 7400-8800 kHz Y Y Y Annex 9F: 13.553-13.567 MHz Y Y Y	ΥΥ	Υ	Υ	Υ	Υ	Υ	ΥV	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥV	ΥY
Annex 9F: 13.553-13.567 MHz Y Y Y	ΥΥ	Υ	Υ	Υ	Υ	Υ	ΥV	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥV	ΥY
	ΥΥ	Υ	Υ	Υ	Υ	Υ	ΥÝ	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥV	ΥY
Annex 9F1: 14.410-13.553 / 13.567-13.710 MHz /	ΥΥ	Υ	Υ	Υ	Υ	Υ	Ϋ́	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥV	ΥY
13.110-13.410 / 13.710-14.010 / 12.660-13.110 MHz /																										
	N N	N	N	N	-	_	_	1 N	_	N	_	-	N Y	_	_	N	Υ	N	N	N	N	N	Υ	Р	_	V Y
	YY	Υ	Υ	Υ	Υ	Υ	Υ \	′ Y	Υ	Υ	Υ	Υ	ΥY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ \	Υ
Annex 9F3: 13.460-13.553 / 13.567-13.660 MHz /																										
13.360-13.460 / 13.660-13.760 / 13.110-13.360 MHz / N N N N N N	N N	N	N	N	Υ	N	1 и	1 N	N	N	N	N	N Y	N	N	NI.	Υ	N	N	N	N	N	Υ	Р	Y	N L
	Y Y	Y	Y	Y		_	Y	_	Y	Y	Y	Y	Y	Y	Y	N Y	Υ	Y	Y	Y	Y	Y	Υ	Y	Y	
	Y Y Y Y	Υ	Y	Υ	-	-	Y	_	Y	Υ	Y	Y	YY	+	Y	Υ	Ϋ́	Υ	Y	Υ	Υ	Υ	Υ	Ϋ́	Y	_
Annex 9H: 10.200-11.000 MHz Y Y Y Annex 9K: 3155-3400 kHz Y Y Y		Ϋ́	Y	Ϋ́		-	Y	-	Y	Y	Y	Y	YY	+-	Y	Ϋ́	Ϋ́	Υ	Υ	Υ	Υ	Υ	Υ	Ϋ́	Y	
Annex 9L1: 148.5 kHz-5 MHz Y Y Y		Ϋ́	Ϋ́	Ϋ́	-	_	Y	-	Y	Ϋ́	Y	Y	YY	+-	Y	Y	Ϋ́	Ϋ́	Υ	Ϋ́	Υ	Ϋ́	Υ	Ϋ́	Y	
	1 T	Ϋ́	Ϋ́	Ϋ́	-	_	Y		Y	Ϋ́	Y	Y	YY	+-	Y	Ϋ́	Υ	Ϋ́	Υ	Ϋ́	Ϋ́	Ϋ́	Υ	Ϋ́	Y	
Annex 9L2: 5-30 MHz	\vee \mid \vee \mid	-	Y	Ϋ́	-	-	Y		Y	Υ	Ϋ́	Y	YY	-	Y	Y	Ϋ́	Ϋ́	Υ	Ϋ́	Υ	Υ	Υ	Ϋ́	Y	_
Highlighted yellow = not implemented Y Y Y Highlighted yellow = not implemented	Y Y Y Y	Υ		ľ	ĭ	ſ	1 '	Ť	ľ	Ť	ĭ	Υ	r i ì	ľ	ĭ	ľ	ĭ	ĭ	Y	ĭ	ĭ	ľ	ĭ	ř	f [. Т

Annexes to ERC/REC 70-03	AUT	BEL	BUL	CZE	СҮР	DNK	EST	FIN	F	D	HRV	GRC	HNG	ISL	IRL	1	LVA	LIE	LTU	LUX	MLT	HOL	NOR	POL	POR	ROU	SVK	SVN	Е	SUI	S G
Annex 10 – Radio microphone applications inclu	ıding																														
Annex 10A: 29.7-47.0 MHz	L	Υ	Υ	L	Υ	Υ	L	L	L	L	N	L	L	Υ	Υ	L	Υ	L	L	L	L	Υ	L	Υ	N	L	L	Υ	L	L	L N
Annex 10B: 173.965-216 MHz																															
Annex 10C: 863-865 MHz	Υ	Υ	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	ΥΥ
Annex 10C1: 916.1-916.5 MHz / 917.3-917.7 MHz	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Υ	N	N	N	N	N	N	N	N	Ν	Υ	N	Υ	N Y
Annex 10C1: 918.5-918.9 MHz / 919.7-920.1 MHz	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Υ	N	N	N Y
Annex 10D: 174-216 MHz	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	N	Υ	N	Υ	Υ	Υ	Υ	Υ	L	Υ	ΥΥ
Annex 10E1: 470-786 MHz	Υ	Υ	Υ	Υ	Υ	Υ	Υ	L	L	L	Υ	L	Υ	Υ	Υ	L	Υ	Υ	L	Υ	L	Υ	L	L	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 10E2: 786-789 MHz	L	Р	N	Υ	N	Υ	Υ	L	L	Υ	Ν	L	N	Υ	Υ	N	Ν	Υ	L	Υ	N	Υ	N	L	Υ	N	Ν	Υ	N	Υ	N Y
Annex 10E3: 823-826 MHz	L	Р	N	Υ	N	Υ	U	Υ	L	Υ	N	N	N	Υ	Υ	N	N	Υ	L	Υ	N	Υ	N	L	N	N	N	Υ	Υ	Υ	L P
Annex 10E4: 826-832 MHz	L	Р	N	Υ	N	Υ	U	Υ	L	Υ	Ν	N	N	Υ	Υ	N	N	Υ	L	Υ	N	Υ	N	L	N	N	Ν	Υ	Υ	Υ	L P
Annex 10F: 1785-1795 MHz	Υ	Υ	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	ΥΥ
Annex 10G: 1795-1800 MHz	Υ	Υ	Υ	L	Υ	Υ	Υ	Υ	Υ	Υ	L	Υ	Υ	Υ	N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 10G1: 1800-1804.8 MHz	Р	N	N	N	N	Υ	N	Υ	Ν	Υ	N	N	N	N	N	N	N	Р	N	N	N	N	N	N	N	N	Ν	Υ	Ν	Р	N N
Annex 10H1: 169.4000-169.4750 MHz DEC/(05)02	Υ	Υ	Υ	Υ	Υ	Υ	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 10H2: 169.4875-169.5875 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	Υ	ΥΥ
Annex 10l: 169.4-174.0 MHz	N	N	N	L	N	Υ	Υ	N	Ν	Υ	Υ	N	N	N	N	L	Υ	N	Υ	Υ	N	Р	Υ	N	N	Υ	U	Υ	L	N	ΥL
Annex 10J: 1492-1518 MHz	Р	N	N	N	N	N	N	N	Ν	Υ	N	N	N	N	N	N	N	U	N	Υ	N	N	N	N	N	N	Ν	Υ	N	U	N L
Annex 11 - Radio Frequency Identification Applie	catio	ns																													
Annex 11A1: 2446-2454 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	ΥΥ
Annex 11A2: 2446-2454 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	ΥΥ
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	ΥΥ
Annex 11B2: 865.6-867.6 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	ΥΥ
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	ΥΥ
Annex 11C: 915-921 MHz	N	N	N	N	N	Υ	N	N	Ν	N	N	N	N	N	N	N	N	L	N	N	N	N	N	N	N	N	Ν	Υ	N	L	N Y
Annex 12 - Active Medical Implants and their ass	ocia	ted p	eriph	erals																											
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	ΥΥ
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	ΥΥ
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	Υ	Υ	Υ	Υ	Υ	ΥΥ
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	Υ	Υ	Υ	Υ	Υ	ΥΥ
Annex 12E: 2483.5-2500 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	ΥΥ
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	ΥΥ
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	ΥΥ
Annex 13C: 1795-1800 MHz	U	Υ	Υ	Υ	Υ	Υ	Υ	L	N	Υ	N	Υ	Υ	Υ	N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Y 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	ΥΥ
Highlighted yellow = not implemented			Y=im	pleme	nted			L=lim	ited	imple	menta	ation							P=pla	annec	ł							U=unc	der st	udy	

Annex to ERC/REC 70-03	AND	ALB	AZE	BIH	BLR	GEO	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 1 - Non-Specific SRDs													
Annex 1A: 6765-6795 kHz	Υ	Υ		Υ	Υ	N	Υ	Y	Y	N	Υ	Υ	L
Annex 1B: 13.553-13.567 MHz	Υ	Υ		Υ	Υ	N	Υ	Y	Y	Y	Υ	Υ	N
Annex 1C: 26.957-27.283 MHz	Υ	Υ		Υ	Υ	N	Υ	Y	Y	Y	Υ	Y	N
Annex 1C1: 26.995, 27.045, 27.095, 27.145, 27.195 MHz	Υ	Υ		Ν	Υ	N	Υ	N	N	N	N	N	N
Annex 1D: 40.660-40.700 MHz	Υ	Υ		Υ	Υ	N	Υ	Y	Υ	Υ	Υ	Y	N
Annex 1E: 138.20-138.45 MHz	N	Υ		Υ	Υ	N	Υ	Y	Υ	N	Υ	Υ	N
Annex 1E1: 169.4000-169.4750 MHz	Υ	Υ		Υ	N	N	Υ	Y	Υ	N	Υ	Y	U
Annex 1E2: 169.4000-169.4875 MHz DEC/(05)02	Υ	Υ		Ν	N	N	Υ	N	Ν	N	N	N	N
Annex 1E3: 169.4875-169.5875 MHz	Υ	Υ		Ν	N	N	Υ	N	Ν	N	N	N	N
Annex 1E4: 169.5875-169.8125 MHz	Υ	Υ		Ν	N	N	Υ	N	Ν	N	N	N	N
Annex 1F: 433.050-434.790 MHz	Υ	Υ		Υ	Υ	L	Υ	Y	Y	L	Υ	Υ	L
Annex 1F1: 433.050-434.790 MHz	Υ	Υ		Υ	Υ	L	Υ	Y	Y	N	Υ	Υ	L
Annex 1F2: 434.040-434.790 MHz	Υ	Υ		Υ	Υ	L	Υ	Y	Υ	N	Υ	Υ	L
Annex 1G1: 863-870 MHz	Υ	Υ		Υ	L	N	Υ	Y	Υ	L	Υ	Υ	L
Annex 1G1.1: 868.000-868.600 MHz	Υ	Υ		Υ	Υ	N	Υ	Y	Υ	N	Υ	Υ	L
Annex 1G1.2: 868.700-869.200 MHz	Υ	Υ		Υ	L	N	Υ	Y	Υ	Υ	Υ	Υ	N
Annex 1G1.3: 869.400-869.650 MHz	Υ	Υ		Υ	L	N	Υ	Y	Υ	N	Υ	Υ	N
Annex 1G1.4: 869.700-870.000 MHz	Υ	Υ		Υ	Υ	N	Υ	Υ	Υ	N	Υ	Υ	N
Annex 1G2: 870-876 MHz	N	Υ	N	N	N	N	Υ	N	N	N	N	N	N
Annex 1G2.1: 870.0-875.8 MHz	N	Υ	N	N	N	N	Υ	N	N	N	N	N	N
Annex 1G3: 915-921 MHz	N	Υ	N	N	N	N	Υ	N	N	N	N	N	N
Annex 1G3.1: 915.200-920.800 MHz	N	Υ	N	N	N	N	Υ	N	N	N	N	N	N
Annex 1H: 2400.0-2483.5 MHz	Υ	Υ		Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	L
Annex 1I: 5725-5875 MHz	Υ	Υ		Υ	N	Υ	Υ	Y	Υ	L	Υ	Υ	Υ
Annex 1J: 24.00–24.25 GHz	Υ	Υ		Υ	Υ	Υ	Υ	Y	Y	N	Υ	Υ	Υ
Annex 1K: 61.0-61.5 GHz	Υ	Υ		Υ	Υ	N	Υ	Y	Y	N	Υ	Υ	Υ
Annex 1K1: 57-64 GHz	Υ	Υ		Ν	N	N	Υ	N	Ν	N	N	U	N
Annex 1L: 122.00-122.25 GHz	Υ	Υ		Υ	N	N	Υ	Y	Y	N	Υ	Υ	Y
Annex 1L1: 122.25-123.00 GHz	Υ	Υ		Υ	N	N	Υ	Y	Y	N	Υ	Y	Y
Annex 1M: 244-246 GHz	Υ	Υ		Υ	N	N	Υ	Y	Y	N	Υ	Y	Y
Annex 1N: 3.1-4.8 GHz } DEC/(06)04	Υ	Υ		L	N	N	Υ	Y	Y	L	N	Υ	U
Annex 1N: 6-9 GHz	Υ	Υ		L	N	N	Υ	Y	Y	L	N	Y	U
Annex 1N1: 6.0-8.5 GHz DEC/(12)03	N	Υ		N	N	N	Υ	N	N	N	N	U	N
Highlighted yellow =not implemented Y=implemented		L=limited i	mpleme	ntation)	P=plann	ed		U=under	study			

Annex to ERC/REC 70-03		AND	ALB	AZE	BIH	BLR	GEO	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 2 - Tracking, Tracir	ng and Data Acquisition													
Annex 2A: (*457 kHz) 456.9-	457.1 kHz	Υ	Υ		Y	Υ	N	Υ	Υ	Υ	Υ	Υ	Y	L
Annex 2B: 169.400-169.475 I	√Hz DEC/(05)02	Υ	Υ		Y	N	N	Υ	Y	Υ	N	Υ	Y	U
Annex 2C: 870.000-875.600 I	MHz	N	Υ	N	N	N	N	Υ	N	N	N	N	N	N
Annex 2D1: 2483.5-2500 MHz	<u>z</u>	N	Υ	N	N	N	N	Υ	N	N	N	N	N	N
Annex 2D2: 2483.5-2500 MHz	<u>,</u>	N	Y	N	N	N	N	Y	N	N	N	N	N	N
Annex 2E: 5725-5875 MHz			Υ					Υ						
Annex 3 - Wideband Data	Transmission Systems													
Annex 3A: 2400.0-2483.5 MH	lz	Υ	Υ		Υ	N	Υ	Υ	Υ	Υ	L	Υ	Υ	L
Annex 3B: 57–66 GHz		Υ	Υ		L	Υ	N	Υ	Υ	Υ	N	L	Υ	N
Annex 4 - Railway Applica	tions													
Annex 4A: (*27.095 MHz) 27.		Υ	Y		Y	Υ	N	Y	Y	Y	N	Y	Y	N
Annex 4B: (*4234 kHz) 984-7		Y	Y		Y	Y	N	Y	P	Y	N	N	Y	N
Annex 4C: (*13.547 MHz) 7.3		Y	Y		Y	Y	N	Y	P	Y	N	L	Y	N
Annex 4D: 76-77 GHz	20.0 171 12	Y	Y		N	N	N	Y	N	N	N	N	U	N
Annex 5 - Transport and T	raffic Telematics - TTT													
Annex A: 870.000-875.800 M		N	Υ	N	Υ	N	N	Y	N	N	N	N	N	N
Annex 5B1: 5795–5805 MHz	· 16-	Y	Y	- ' '	Y	Y	L	Y	Y	Y	i i	Y	Y	N
Annex 5B2: 5805-5815 MHz		Y	Y		Ý	Y	L	Y	Y	Y	L	Y	Y	N
Annex 5C: 76-77 GHz		Υ	Y		Y	Υ	N	Y	Y	Y	L	Υ	Y	Y
Annex 5D1: 21.65-26.65 GHz	} DEC(04)10	Υ	Υ	N	L	Υ	N	Υ	N	Υ	L	N	Y	N
Annex 5D2: 24.25-26.65 GHz	J DEC (04)10	Υ	Υ	N	L	N	N	Υ	N	Υ	L	N	Y	N
Annex 5E: 77-81 GHz	DEC (04)03	Υ	Υ		L	Υ	N	Υ	Υ	Υ	Y	N	Υ	U
Annex 5F1: 24.050-24.075 G	-tz	Υ	Υ		L	Υ	N	Υ	N	Υ	Y	N	Υ	N
Annex 5F2: 24.075-24.150 G	-lz	Υ	Υ		L	Υ	N	Υ	N	Υ	Y	Ν	Υ	N
Annex 5F3: 24.150-24.250 G	-tz	Υ	Υ		L	Υ	N	Υ	N	Υ	Y	N	Υ	N
Annex 5G1: 24.250-24.495 G	Hz	Υ	Υ	N	N	N	N	Υ	N	N	N	N	Υ	N
Annex 5G2: 24.495-24.500 G	Hz	Υ	Υ	N	N	Ν	N	Υ	N	N	N	N	Υ	N
Annex 5G3: 24.250-24.500 G	Hz	Υ	Υ	N	N	N	N	Υ	N	N	N	N	Υ	N
Annex 6 - Radiodetermina	tion applications													
Annex 6A: 2400.0-2483.5 MH	z DEC/(01)08	Υ	Υ		Y	Υ	L	Υ	Υ	Υ	N	Υ	Y	L
Annex 6B: 9200-9500 MHz		N	Υ		Υ	Υ	L	Υ	Y	Υ	L	Υ	Y	U
Annex 6C: 9500-9975 MHz		N	Υ		Υ	Υ	L	Υ	Υ	Υ	L	Υ	Y	U
Annex 6D:10.5-10.6 GHz		Υ	Υ		Υ	Υ	L	Υ	Υ	Υ	L	Υ	N	L
Annex 6E:13.4-14.0 GHz		N	Υ		Υ	Υ	L	Υ	Υ	Υ	N	Υ	Υ	U
Annex 6F: 24.05-24.25 GHz		Υ	Υ		Υ	Υ	L	Υ	Υ	Υ	L	Υ	Υ	L
Annex 6G: 4.5-7.0 GHz		Υ	Υ		Υ	N	N	Υ	Р	Υ	L	L	Υ	U
Annex 6H: 8.5-10.6 GHz		Υ	Υ		Υ	N	N	Υ	Р	Y	L	L	Υ	U
Annex 6l: 24.05-27.0 GHz		Υ	Υ		Υ	Υ	N	Υ	Р	Y	L	L	Υ	L
Annex 6J: 57-64 GHz		Υ	Υ		Υ	Υ	N	Υ	Р	Υ	L	L	Υ	U
Annex 6K: 75-85 GHz		Υ	Υ		Υ	Υ	N	Υ	Р	Υ	L	L	Υ	L
Annex 6L: 6.0-8.5 GHz		Υ	Υ	N	N	L	N	Υ	U	N	N	N	Υ	N
Annex 6M: 24.05-26.5 GHz	DEC/(11)02	Υ	Υ	N	N	L	N	Υ	U	N	N	N	Υ	N
Annex 6N: 57-64 GHz	220/(11/02	Υ	Υ	N	N	L	N	Υ	U	N	N	N	Y	N
Annex 60: 75-85 GHz	J	Υ	Υ	N	N	L	N	Υ	U	N	N	N	Υ	N
*)Center frequency for the band														
Highlighted yellow =not implem	nented Y=implemented		L=limited i	mpleme	ntation)	P⊨plann	ed		U=under	study			
		-												

Annex to ERC/REC 70-03	AND	ALB	AZE	BIH	BLR	GEO	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 6 - Radiodetermination applications - continue													
Annex 6P: 17.1-17.3 GHz	Y	Υ		Υ	N	N	Υ	Р	Υ	N	L	Υ	N
Annex 6Q: 30 MHz-12.4 GHz DEC/(06)08	U	Υ		L	N	N	Υ	N	U	N	N	Υ	U
Annex 6R: 2.2-8.0 GHz DEC/(07)01	L	Υ		L	N	N	Υ	N	Υ	N	N	Y	N
Annex 6S1: 3.1-4.8 GHz REC/(11)09	Y	Υ					Υ					Υ	
Annex 6S2: 3.1-4.8 GHz REC/(11)10	Υ	Υ					Υ					Υ	
Annex 7 - Alarms													
Annex 7A: 868.6-868.7 MHz	Υ	Υ		Υ	Υ	N	Υ	Y	Υ	N	Y	Υ	L
Annex 7B: 869.250-869.300 MHz	Υ	Υ		Υ	Υ	N	Υ	Υ	Υ	N	Y	Υ	N
Annex 7C: 869.650-869.700 MHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	N	Y	Υ	U
Annex 7D: 869.200-869.250 MHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	N	Υ	Υ	L
Annex 7E: 869.300-869.400 MHz	Y	Υ		Υ	Υ	N	Y	Y	Υ	N	Y	Υ	N
Annex 8 - Model Control													
Annex 8A: 26.995,27.045,27.095, 27.145,27.195 MHz	Y	Υ		Υ	Υ	N	Y	Y	Υ	L	Y	Υ	Y
Annex 8B: 34.995-35.225 MHz	Υ	Y	Υ	Υ	Υ	N	Y	Y	Y	U	Υ	Υ	Y
Annex 8C: 40.665,40.675 40.685, 40.695 MHz	Y	Υ	Υ	Υ	Υ	N	Y	Y	Υ	Υ	Y	Υ	Y
Annex 9 - Inductive Applications													
Annex 9A1: 9-90 kHz	Υ	Υ		Υ	Υ	N	Υ	N	Υ	L	N	Υ	L
Annex 9A2: 90-119 kHz	Y	Υ		Υ	Υ	L	Υ	N	Υ	Υ	N	Υ	L
Annex 9A3: 119-135 kHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	Υ	Y	Υ	L
Annex 9B: 135-140 kHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	N	Y	Υ	L
Annex 9C 140.0-148.5 kHz	Υ	Υ		Υ	Υ	N	Υ	Y	Υ	N	Υ	Υ	L
Annex 9D: 6765-6795 kHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	Υ	Y	Υ	N
Annex 9E: 7400-8800 kHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	Υ	Y	Υ	N
Annex 9F: 13.553-13.567 MHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	Υ	Υ	Υ	N
Annex 9F1: 14.410-13.553 MHz / 13.567-13.710 MHz / 13.110-13.410 MHz /													
13.710-14.010 MHz / 12.660-13.110 MHz / 14.010-14.460 MHz /													
11.810-12.660 MHz / 14.460-15.310 MHz	Р	Y	N	N	N	N	Y	N	N	N	N	N	N
Annex 9F2: 13.553-13.567 MHz	Υ	Υ		Υ	N	N	Υ	Y	Υ	Υ	Y	Υ	L
Annex 9F3: 13.460-13.553 MHz / 13.567-13.660 MHz / 13.360-13.460 MHz /													
13.660-13.760 MHz / 13.110-13.360 MHz / 13.760-14.010 MHz /													
12.660-13.110 MHz / 14.010-14.460 MHz	Р	Υ	N	N	N	N	Υ	N	N	N	N	N	N
Annex 9G: 26.957-27.283 MHz	Y	Υ		Υ	Υ	N	Υ	Y	Y	Y	Y	Y	L
Annex 9H: 10.200-11.000 MHz	Y	Υ		Υ	Υ	N	Υ	Y	Y	L	Y	Υ	L
Annex 9K: 3155-3400 kHz	Υ	Υ		Υ	Υ	N	Y	Y	Υ	N	Υ	Υ	L
Annex 9L1: 148.5 kHz-5 MHz	Y	Υ		Υ	Υ	N	Υ	Y	Υ	N	Y	Υ	U
Annex 9L2: 5-30 MHz	Y	Υ		Υ	Υ	N	Y	Y	Y	N	Y	Υ	N
Annex 9L3: 400-600 kHz	Υ	Y		Υ	Υ	N	Y	Y	Y	N	Υ	Υ	U
Highlighted yellow =not implemented Y=implemented		L=limited i	mpleme	ntation		P=plann	ed		U=under	study			

Annexes to ERC/REC 70-03	AND	ALB	AZE	BIH	BLR	GEO	MDA	MKD	MNE	RUS	SRB	TUR	UKR
Annex 10 – Radio microphone applications including aids for the h	earing i	mpaired											
Annex 10A: 29.7-47.0 MHz	L	Υ		Υ	L	N	Υ	Y	Υ	L	Υ	Υ	L
Annex 10B: 173.965-216 MHz		Υ					Y						
Annex 10C: 863-865 MHz	Υ	Υ		Υ	N	N	Y	Y	Y	Y	Υ	Υ	L
Annex 10C1: 916.1-916.5 MHz / 917.3-917.7 MHz	N	Υ	N	N	N	N	Y	N	N	N	N	N	N
Annex 10C1: 918.5-918.9 MHz / 919.7-920.1 MHz	N	Υ	N	Ν	N	N	Υ	N	N	N	N	N	N
Annex 10D: 174-216 MHz	L	Υ		Υ	N	N	Υ	Y	Y	L	Υ	Υ	L
Annex 10E1: 470-786 MHz	Y	Υ		Υ	L	N	Υ	Y	Υ	L	Υ	Υ	L
Annex 10E2: 786-789 MHz	N	Υ		N	N	N	Y	N	N	N	N	Υ	N
Annex 10E3: 823-826 MHz	Y	Υ		N	Υ	N	Y	N	N	N	N	Υ	N
Annex 10E4: 826-832 MHz	Y	Υ		N	Υ	N	Y	N	N	N	N	Υ	N
Annex 10F: 1785-1795 MHz	Υ	Υ		Υ	N	N	Y	Y	Y	N	Υ	Υ	U
Annex 10G: 1795-1800 MHz	Y	Υ		Υ	N	N	Y	Y	Y	N	Υ	Υ	U
Annex 10G1: 1800-1804.8 MHz	N	Y	N	N	N	N	Y	N	N	N	N	N	U
Annex 10H1: 169.4000-169.4750 MHz }	Y	Υ		Υ	N	N	Υ	Y	Y	N	Υ	Υ	U
Annex 10H2: 169.4875-169.5875 MHz	Υ	Υ		Υ	N	N	Y	Y	Y	N	Υ	Υ	U
Annex 10l: 169.4-174.0 MHz	L	Υ		Υ	N	N	Υ	Y	Y	N	N	Υ	N
Annex 10J: 1492-1518 MHz	N	Υ		N	N	N	Y	N	N	N	N	N	N
Annex 11 - Radio Frequency Identification Applications													
Annex 11A1: 2446-2454 MHz	Y	Υ		Υ	Υ	Y	Y	Y	Y	N	Υ	Υ	U
Annex 11A2: 2446-2454 MHz	Y	Υ		Υ	Υ	Y	Y	Y	Y	N	Υ	Υ	U
Annex 11B1: 865.0-865.6 MHz	Y	Υ		Υ	Υ	N	Y	N	Y	N	Υ	Υ	U
Annex 11B2: 865.6-867.6 MHz	Y	Υ		Υ	Υ	N	Y	N	Y	L	Υ	Υ	U
Annex 11B3: 867.6-868.0 MHz	Y	Υ		Υ	Υ	N	Y	N	Y	L	Υ	Υ	U
Annex 11C: 915-921 MHz	N	Υ	N	N	N	N	Υ	N	N	N	N	N	U
Annex 12 - Active Medical Implants and their associated peripheral	s												
Annex 12A: 9-315 kHz	Υ	Υ		Υ	Υ	N	Y	Y	Y	N	Υ	Υ	L
Annex 12B: 315-600 kHz	Υ	Υ		Υ	Υ	N	Y	Y	Υ	N	Υ	Υ	L
Annex 12C: 30.0-37.5 MHz	Υ	Υ		Υ	Υ	N	Y	Υ	Υ	N	N	Y	L
Annex 12D: 12.5-20.0 MHz	Υ	Υ		Υ	Υ	N	Y	Y	Y	N	L	Υ	U
Annex 12E: 2483.5-2500 MHz	Υ	Y		N	N	N	Y	N	N	N	N	Y	N
Annex 13 - Wireless Audio Applications													
Annex 13A: 863-865 MHz	Y	Υ		Υ	Υ	N	Y	Y	Y	Y	Υ	Y	N
Annex 13B: 864.8-865.0 MHz	Υ	Υ		Υ	Υ	Y	Y	Y	Υ	N	Υ	Υ	L
Annex 13C: 1795-1800 MHz	Y	Υ		Υ	N	L	Y	Y	Y	N	Υ	Y	U
Annex 13D: 87.5-108.0 MHz	Υ	Υ		Υ	Υ	Y	Y	Y	Y	L	Υ	Υ	L
Highlighted yellow =not implemented Y=implemented		L=limited i	mpleme	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 and Recommendations

ECC/DEC/(12)03	The harmonised conditions for UWB applications onboard aircraft
ECC/REC/(11)10	Location tracking application for emergency and disaster situations (LAES)
ECC/REC/(11)09	UWB Location Tracking Systems TYPE 2 (LT2)
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
ECC/DEC/(09)03 ECC/DEC/(07)01 ECC/DEC/(06)08 ECC/DEC/(06)04 ECC/DEC/(05)02 ECC/DEC(04)10 ECC/DEC/(04)03 ECC/DEC/(04)01 ERC/DEC(01)08 ERC/DEC(01)11	Harmonised conditions for Mobile/Fixed Communications Networks (MFCN) operating in the band 790-862 MHz Building Material Analysis (BMA) devices using UWB technology The conditions for use of the radio spectrum by Ground- and Wall- probing radar (GPRWPR) imaging systems The harmonised conditions for devices using Ultra-wideband (UWB) technology in bands below 10.6 GHz The use of the frequency band 169.4-169.8125 MHz The frequency bands to be designated for the temporary introduction of Automotive Short Range Radars The frequency band 77-81 GHz to be designated for the use of Automotive Short Range Radars Short Range Devices for detection of Avalanche Victims Short Range Devices for Movement Detection and Alert in 2400-2483.5 MHz Short Range Devices for Flying Model Control in 34.995-35.225 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	AP/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 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 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 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 175	Co-existence study considering UWB applications inside aircraft and existing radio services in the frequency bands from 3.1 GHz to 4.8 GHz and from 6.0 GHz to 8.5 GHz			
ECC Report 176	The impact of non-specific SRDs on radio services in the band 57–66 GHz			

ECC Report 181	nproving spectrum efficiency in SRD bands			
ECC Report 182	Survey about the use of the frequency band 863-870 MHz			
ECC Report 189	Future Spectrum Demand for Short Range Devices in the UHF Frequency Bands			
ECC Report 190	Compatibility between Short-Range Devices (SRD) and EESS (passive) in the 122 to 122.25 GHz band			
ECC Report 200	Co-existence studies for proposed SRD and RFID applications in 870 to 876 MHz and 915 to 921 MHz			
ECC Report 201	Compatibility study between MBANS operating in the 2400 - 2483.5 MHz and 2483.5 - 2500 MHz bands and other systems in the same bands or in adjacent bands			
ECC Report 204	Spectrum use and future requirements for PMSE			
ECC Report 206	Compatibility studies in the band 5725-5875 MHz between SRD equipment for wireless industrial applications and other systems			
ECC Report 207	Adjacent band co-existence of SRDs in the band 863-870 MHz with LTE usage below 862 MHz			
ECC Report 208	mpact of RFID devices on radio services in the band 13.56 MHz			
ECC Report 230	Harmonisation Possibilities for Assistive Listening Devices in the Band 174-216 MHz			
ECC Report 234	Analyses of LDC UWB mitigation techniques with respect to incumbent radiocommunication services within the band 3.1 to 3.4 GHz			
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	landbook 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	mpatibility fixed services and motion sensors at 10.5 GHz			
ERC Report 062	ompatibility analysis regarding possible sharing between the UIC system and radio microphones in the frequency ranges 876-880 MHz and 11-925 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 <u>Harmonised European Standards List</u>

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			

	Specific standards
EN 301 559	Low Power Active Medical Implants (LP-AMI) operating in the frequency range 2483.5 MHz to 2500 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 302 372	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; 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
EN 303 203	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Medical Body Area Network Systems (MBANSs) operating in the 2483.5 MHz to 2500 MHz range
EN 303 204	Electromagnetic compatibility and Radio spectrum Matters (ERM); Network Based Short Range Devices (SRD); Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW

Specific standards			
	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless industrial automation; Radio equipment to be used in the 5.725 GHz to 5.875 GHz frequency range with power levels ranging up to 400 mW (under development)		

Table 19: EC Decisions

EC Decision	Title			
2014/702/EU	Amending 2007/131/EC on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community			
2013/752/EU	Amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices and repealing Decision 2005/928/EC			
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 Identification (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			
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			
2005/50/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	Ft	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 recommended by T/R 01-04 and T/R 10-01 respectively. The free circulation and use of products bearing these old markings must then be confined to existing equipments and to countries which have already adopted these markings. The marking CEPT SRD Aa Y proposed by ERC/REC 70-03 will not be recognised in France. In any case in France marking issues are in line with the R&TTE Directive	
All Annexes	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 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 ERC/REC 70-03
	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

Frequency Band	Country	Implementation	Reason/remarks
			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 noncertificated 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 the Russian Federation	
	Turkey		The short range and low powered devices under the scope of SRD Bylaw (entered into force 11 September 2012) may be used without licence, permission for use of radio or frequency assignment and registration in case when devices meet the requirements in the By-law and are conformable with the technical regulations done by the Authority. SRDs should be used within any natural person's or legal entity's property under his/its own use, not exceeding any property's borders, upon exclusively individual or organizational needs, not for providing any electronic communications services to third parties (except ISPs), providing without any commercial intention and not publicly available
Annex 1 Band A	Georgia	Not implemented	
(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

Frequency Band	Country	Implementation	Reason/remarks
Annex 1 Band B	Georgia	Not implemented	
(Non- Specific SRDs) 13.553-13.567 MHz	Russian Federation	Not implemented	
Annex 1 Band C	Georgia	Not implemented	
(Non- Specific SRDs) 26.957-27.283 MHz	Ukraine	Not implemented	
	Bosnia & Herzegovina	Not implemented	
	Georgia	Not implemented	
Annex 1 Band C1	Macedonia (FYROM)	Not implemented	
(Non- Specific SRDs)	Montenegro	Not implemented	
26.995, 27.045, 27.095,	Russian Federation	Not implemented	
27.145, 27.195 kHz	Serbia	Not implemented	
	Turkey	Not implemented	
	Ukraine	Not implemented	
Annex 1 Band D	Georgia	Not implemented	
(Non- Specific SRDs) 138.20-138.45 MHz	Ukraine	Not implemented	
	Andorra	Not implemented	
	Belgium	Not implemented	
	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
Annex 1 Band E	Hungary	Not implemented	Aeronautical mobile applications operate in the band
(Non- Specific SRDs)	Italy	Not implemented	Military application
138.20-138.45 MHz	Latvia	Not implemented	Exclusive defence systems
	Liechtenstein	Not implemented	
	Netherlands	Not implemented	Exclusive defence systems
	Poland	Not implemented	Military application
	Russian Federation	Not implemented	
	Slovakia	Not implemented	Not available

Frequency Band	Country	Implementation	Reason/remarks
	Slovenia	Not implemented	
	Spain	Not implemented	Military application
	Sweden	Not implemented	
	Switzerland	Not implemented	Exclusive defence systems
	Ukraine	Not implemented	
Annay 4 Dand 54	Belarus	Not implemented	
Annex 1 Band E1 (Non- Specific SRDs)	Georgia	Not implemented	
169.4000-169.4750 MHz	Russian Federation	Not implemented	
10014000 10014100 111112	Ukraine	Not implemented	Under study
	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
	Georgia	Not implemented	
Annex 1 Band E2	Macedonia (FYROM)	Not implemented	
(Non- Specific SRDs)	Montenegro	Not implemented	
169.4000-169.4875 MHz	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Turkey	Not implemented	
	Ukraine	Not implemented	
	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
	Georgia	Not implemented	
Annex 1 Band E3	Macedonia (FYROM)	Not implemented	
(Non- Specific SRDs)	Montenegro	Not implemented	
169.4875-169.5875 MHz	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Turkey	Not implemented	
	Ukraine	Not implemented	
Annex 1 Band E4	Belarus	Not implemented	
(Non- Specific SRDs)	Bosnia & Herzegovina	Not implemented	
169.5875-169.8125 MHz	Georgia	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Macedonia (FYROM)	Not implemented	
	Montenegro	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Turkey	Not implemented	
	Ukraine	Not implemented	
Annex 1 Band F	Georgia	Limited implementation	
(Non- Specific SRDs) 433.050-434.790 MHz	Russian Federation	Limited implementation	Limited to 433.075-434.790 MHz. Possible use of low power stations and devices for processing of bar-codes
	Ukraine	Limited implementation	The maximal transmitter power 10 mW
Annex 1 Band F1	Georgia	Limited implementation	
(Non- Specific SRDs)	Russian Federation	Not implemented	
433.050-434.790 MHz	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
	Belarus	Limited implementation	Limited to 864.4-868.6 MHz
	Georgia	Not implemented	Planned
	Greece	Limited implementation	
Annex 1 Band G1	Norway	Limited implementation	
(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) 868.7-869.2 MHz with max e.r.p. 25 mW
	Spain	Limited implementation	
	Sweden	Not implemented	
	Ukraine	Limited implementation	Limited to 863-865 / 868-868.6 / 868.6-868.7 / 869.2-869.25 MHz
Annex 1 Band G1.1	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 G1.2	Belarus	Limited implementation	Limited to 869-869.2 MHz
(Non- Specific SRDs)	Georgia	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
868.700-869.200 MHz	Ukraine	Not implemented	
Annex 1 Band G1.3	Belarus	Limited implementation	e.r.p. 150 MW
(Non- Specific SRDs)	Georgia	Not implemented	
869.400-869.650 MHz	Russian Federation	Not implemented	
	Ukraine	Not implemented	
Annex 1 Band G1.4	Georgia	Not implemented	
(Non- Specific SRDs)	Russian Federation	Not implemented	
869.700-870.000 MHz	Ukraine	Not implemented	
	Belarus	Not implemented	
	Finland	Not implemented	Limited to 870-873 MHz
Annex 1 Band G2	Germany	Not implemented	Not available
(Non- Specific SRDs)			
870-876 MHz	Liechtenstein	Limited implementation	Limited to 870-873 MHz: ER-GSM protection
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	Switzerland	Limited implementation	Limited to 870-873 MHz: ER-GSM protection
	United Kingdom	Implemented	The Additional restrictions to protect ER-GSM apply in the UK
	Belarus	Not implemented	
	Finland	Limited implementation	Limited to 870-873 MHz
Annex 1 Band G2.1	Germany	Not implemented	Not available
(Non- Specific SRDs)			
870.000-875.800 MHz	Liechtenstein	Limited implementation	Limited to 870-873 MHz: ER-GSM protection
	Switzerland	Limited implementation	Limited to 870-873 MHz: ER-GSM protection
	United Kingdom	Implemented	The Additional restrictions to protect ER-GSM apply in the UK
Annex 1 Band G3	Belarus	Not implemented	
(Non- Specific SRDs)			
915-921 MHz	Germany	Not implemented	Not available

Frequency Band	Country	Implementation	Reason/remarks
	Liechtenstein	Limited implementation	Limited to 915-918 MHz: ER-GSM protection
	Switzerland	Limited implementation	Limited to 915-918 MHz: ER-GSM protection
	United Kingdom	Implemented	The Additional restrictions to protect ER-GSM apply in the UK
	Belarus	Not implemented	
Annex 1 Band G3.1	Germany	Not implemented	Not available
(Non- Specific SRDs)	Liechtenstein	Limited implementation	Limited to 915.2-918 MHz: ER-GSM protection
915.200-920.800 MHz			
	Switzerland	Limited implementation	Limited to 915.2-918 MHz: ER-GSM protection
	United Kingdom	Implemented	The Additional restrictions to protect ER-GSM apply in the UK
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	Implemented	Bluetooth
2400.0-2403.3 WILIZ	Ukraine	Limited implementation	e.i.r.p. ≤100 mW
Annex 1 Band I	Belarus	Not implemented	
(Non- Specific SRDs) 5725-5875 MHz	Russian Federation	Limited implementation	Duty cycle 0.1% or LBT. Antenna height should not exceed 5 m, with max e.r.p. 25 mW
Annex 1 Band J (Non- Specific SRDs)	France	Limited implementation	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	Georgia	Not implemented	
(Non- Specific SRDs)			
61.0-61.5 GHz	Russian Federation	Not implemented	
Annex 1 Band K1	Belarus	Not implemented	
(Non- Specific SRDs)	Bosnia & Herzegovina	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
57-64 GHz	Georgia	Not implemented	
	Macedonia (FYROM)	Not implemented	
	Montenegro	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Turkey	Not implemented	Under study
	Ukraine	Not implemented	
	Belarus	Not implemented	
Annex 1 Band L	Georgia	Not implemented	
(Non- Specific SRDs) 122.00-122.25 GHz	Portugal	Implemented	100mW p.i.r.e. is allowed without additional requirements (in conformity with Decision 2011/829/EU)
	Russian Federation	Not implemented	
	Belarus	Not implemented	
Annex 1 Band L1	Georgia	Not implemented	
(Non- Specific SRDs) 122.25-123.00 GHz	Portugal	Implemented	100mW p.i.r.e. is allowed without additional requirements (in conformity with Decision 2011/829/EU)
	Russian Federation	Not implemented	
Annex 1 Band M	Belarus	Not implemented	
(Non- Specific SRDs)	Georgia	Not implemented	Planned
244-246 GHz	Russian Federation	Not implemented	
	Belarus	Not implemented	
	Bosnia & Herzegovina	Limited implementation	Committed
	Georgia	Not implemented	
Annex 1 Band N (Non- Specific SRDs) 3.1-4.8 GHz/6-9 GHz	Russian Federation	Limited implementation	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 3950-4425 MHz: -54.5 dB/MHz

Frequency Band	Country	Implementation	Reason/remarks
			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 5475-6000 MHz: -62.5 dBm/MHz 5475-6000 MHz: -47 dBm/MHz 7250-7750 MHz: -73 dBm/MHz 7750-8625 MHz: -69 dBm/MHz 8625-9150 MHz: -47 dBm/MHz 9150-10600 MHz: -45 dBm/MHz
	Serbia	Not implemented	
	Ukraine	Not implemented	Under study for 3.1-4.8 GHz
	Andorra	Not implemented	
	Austria	Not implemented	Planned
	Belarus	Not implemented	
	Belgium	Not implemented	Planned
	Bosnia & Herzegovina	Not implemented	
	Bulgaria	Not implemented	Planned
Annex 1 Band N1	Czech Republic	Not implemented	Planned
(Non- Specific SRDs)	Cyprus	Not implemented	Planned
6.0-8.5 GHz	France	Not implemented	Planned
	Georgia	Not implemented	
	Greece	Not implemented	Planned
	Hungary	Limited implementation	Version of 12 November 2010 implemented. National footnotes H15A, H29, H78C, H78D of the National Table of Frequency Allocations, which was published by Decree No. 15/2012 (XII.29.)NMHH, and Sections 2, 7 and 10 of Annex 6 to this Decree
	Iceland	Not implemented	Planned

Frequency Band	Country	Implementation	Reason/remarks
	Ireland	Not implemented	Planned
	Italy	Not implemented	Planned
	Latvia	Not implemented	Planned
	Lithuania	Limited implementation	
	Macedonia (FYROM)	Not implemented	
	Malta	Not implemented	Planned
	Montenegro	Not implemented	
	Norway	Not implemented	Planned
	Poland	Not implemented	Planned
	Portugal	Not implemented	Planned
	Romania	Not implemented	Planned
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovakia	Not implemented	Planned
	Spain	Not implemented	Planned
	Sweden	Not implemented	Planned
	Turkey	Not implemented	Under study
	Ukraine	Not implemented	
	United Kingdom	Limited implementation	
Annex 2 Band A Tracking, Tracing and Data	Bulgaria	Implemented	457 kHz centre frequency is allocated 456.9-457.1 kHz band is not allocated
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
Annex 2 Band B	Belarus	Not implemented	
Tracking, Tracing and Data	Georgia	Not implemented	
Acquisition	Russian Federation	Not implemented	
169.4-169.475 MHz	Ukraine	Not implemented	Under study
Annex 2 Band C	Andorra	Not implemented	
Tracking, Tracing and Data	Austria	Not implemented	Under study
Acquisition	Azerbaijan	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
870.000-875.600 MHz	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Czech Republic	Not implemented	
	Cyprus	Not implemented	
	Estonia	Not implemented	
	Finland	Limited implementation	Limited to 870-873 MHz
	France	Not implemented	
	Georgia	Not implemented	
	Germany	Not implemented	Not available
	Greece	Not implemented	
	Hungary	Not implemented	
	Iceland	Not implemented	
	Ireland	Not implemented	
	Italy	Not implemented	
	Latvia	Not implemented	
	Liechtenstein	Not implemented	Planned with ER-GSM protection
	Lithuania	Not implemented	
	Luxembourg	Not implemented	
	Macedonia	Not implemented	
	Malta	Not implemented	
	Montenegro	Not implemented	
	Netherlands	Not implemented	
	Norway	Not implemented	
	Poland	Not implemented	
	Portugal	Not implemented	
	Romania	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovakia	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Spain	Not implemented	
	Sweden	Not implemented	
	Switzerland	Not implemented	Planned with ER-GSM protection
	Turkey	Not implemented	
	Ukraine	Not implemented	
	United Kingdom	Implemented	The additional restrictions to protect ER-GSM apply in the UK. Planned implementation of network relay points with a duty cycle of up to 10%
	Andorra	Not implemented	
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Czech Republic	Not implemented	
	Finland	Not implemented	Planned
	France	Not implemented	
	Georgia	Not implemented	
Annex 2 Band D1 Tracking, Tracing and Data	Greece	Not implemented	
Acquisition	Hungary	Not implemented	
2483.5-2500 MHz	Iceland	Not implemented	
	Ireland	Not implemented	
	Italy	Not implemented	
	Latvia	Not implemented	
	Lithuania	Not implemented	
	Luxembourg	Not implemented	
	Macedonia	Not implemented	
	Malta	Not implemented	
	Montenegro	Not implemented	
	Netherlands	Not implemented	
	Norway	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Poland	Not implemented	
	Portugal	Not implemented	
	Romania	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovakia	Not implemented	
	Spain	Not implemented	
	Sweden	Not implemented	Planned
	Turkey	Not implemented	
	Ukraine	Not implemented	
	United Kingdom	Not Implemented	
	Andorra	Not implemented	
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Czech Republic	Not implemented	
	Finland	Not implemented	Planned
Annex 2 Band D2 Tracking, Tracing and Data	France	Not implemented	
Acquisition	Georgia	Not implemented	
2483.5-2500 MHz	Greece	Not implemented	
	Hungary	Not implemented	
	Iceland	Not implemented	
	Ireland	Not implemented	
	Italy	Not implemented	
	Latvia	Not implemented	
	Lithuania	Not implemented	
	Luxembourg	Not implemented	
	Macedonia	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Malta	Not implemented	
	Montenegro	Not implemented	
	Netherlands	Not implemented	Planned
	Norway	Not implemented	
	Poland	Not implemented	
	Portugal	Not implemented	
	Romania	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovakia	Not implemented	
	Spain	Not implemented	
	Sweden	Not implemented	
	Turkey	Not implemented	
	Ukraine	Not implemented	
	United Kingdom	Not implemented	
Annex 2 Band E			
Tracking, Tracing and Data	Netherlands	Not implemented	Planned
Acquisition 5725-5875 MHz			
Annex 3 Band A	Belarus	Not implemented	The books have the second of the second black and the second black and the second black are second black as the second black and the second black are second black as the second black are second black are second black as the second black are second black as the second black are se
Wideband Data Transmission systems	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
2400.0-2483.5 MHz	Italy	Implemented	The public use is subject to general authorisation by the respective service provider
	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

Frequency Band	Country	Implementation	Reason/remarks
			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
	Bosnia & Herzegovina	Limited implementation	
Annex 3 Band B	Georgia	Not implemented	
Wideband Data	Russian Federation	Not implemented	
Transmission systems 57-66 GHz	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
	Ukraine	Not implemented	
Annex 4 Band A	Bulgaria	Implemented	27.095 MHz center frequency is allocated. 27.090-27.100 MHz band is not allocated
Railway applications	Georgia	No info	
27.090-27.100 MHz (Centre frequency			
27.095 MHz	Russian Federation	Not implemented	
	Ukraine	Not implemented	
	Georgia	Not implemented	
Annex 4 Band B	Macedonia (FYROM)	Not implemented	Planned
Railway applications			
984-7484 kHz	Russian Federation	Not implemented	
(Centre frequency 4234 kHz)	Serbia	Not implemented	According to the Frequency Plan, this part of the spectrum is aimed for the mobile maritime applications (4063-4438 kHz)
	Ukraine	No info	
Annex 4 Band C	Georgia	Not implemented	
Railway applications	Macedonia (FYROM)	Not implemented	Planned

Frequency Band	Country	Implementation	Reason/remarks
7.3-23.0 MHz (Centre frequency 13.547 MHz)	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
	Ukraine	No info	
Annex 4 Band D Railway applications 76-77 GHz	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
	Georgia	Not implemented	
	Macedonia (FYROM)	Not implemented	
	Montenegro	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Turkey	Not implemented	Under study
	Ukraine	Not implemented	
Annex 5 Band A Transport and traffic telematics (TTT) 870.000-875.800 MHz	Andorra	Not implemented	
	Austria	Not implemented	
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
	Belgium	Not implemented	
	Bulgaria	Not implemented	
	Croatia	Not implemented	
	Czech Republic	Not implemented	
	Estonia	Not implemented	
	Finland	Limited implementation	Limited to 870-873 MHz
	France	Not implemented	
	Georgia	Not implemented	
	Germany	Not implemented	
	Greece	Not implemented	
	Hungary	Not implemented	
	Iceland	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Ireland	Not implemented	
	Italy	Not implemented	
	Latvia	Not implemented	
	Liechtenstein	Limited implementation	Limited to 870-873 MHz: ER-GSM protection
	Lithuania	Not implemented	
	Luxembourg	Not implemented	
	Macedonia (FYROM)	Not implemented	
	Malta	Not implemented	
	Montenegro	Not implemented	
	Netherlands	Not implemented	
	Norway	Not implemented	
	Poland	Not implemented	
	Portugal	Not implemented	
	Romania	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovakia	Not implemented	
	Spain	Not implemented	
	Sweden	Not implemented	
	Switzerland	Limited implementation	Limited to 870-873 MHz: ER-GSM protection
	Turkey	Not implemented	
	Ukraine	Not implemented	
	United Kingdom	Implemented	The Additional restrictions to protect ER-GSM apply in the UK
Annex 5 Band B1 Transport and traffic	France	Limited implementation	Limited to automatic toll collection. Power limited to 2 W e.i.r.p. Military Radiolocation and Meteorological use
telematics (TTT)	Georgia	Limited implementation	
5795-5805 MHz	Ireland	Limited implementation	8W system not implemented
	Liechtenstein	Limited implementation	Annex has two power levels. Lower level with 2 W e.i.r.p. is

Frequency Band	Country	Implementation	Reason/remarks
			implemented
	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 to protect defence systems
	Ukraine	Not implemented	
	United Kingdom	Limited implementation	2 Watts only permitted
	Belarus	Implemented	Individual license required
	Croatia	Not implemented	Planned
	France	Not implemented	
	Georgia	Limited implementation	
	Ireland	Limited implementation	8W system not implemented
Annex 5 Band B2	Liechtenstein	Limited implementation	Annex has two power levels. Lower level with 2 W e.i.r.p. is implemented. For road toll systems only
Transport and traffic	Malta	Limited implementation	Power limited to 2 W e.i.r.p. as per the lower limit of the Annex
telematics (TTT) 5805-5815 MHz	Norway	Limited implementation	Individual license required
30U3-30 I3 WINZ	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	
Transport and traffic telematics (TTT) 76-77 GHz	Russian Federation	Limited implementation	1 Watt (30 dBm)
Annex 5 Band D1	Azerbaijan	Not implemented	
Transport and traffic	Bosnia & Herzegovina	Limited implementation	

Frequency Band	Country	Implementation	Reason/remarks
telematics (TTT)	Georgia	Not implemented	
21.65-26.65 GHz	Macedonia (FYROM)	Not implemented	
	Russian Federation	Limited implementation	22-26.65 GHz, limited spectral density, protection areas, automatic deactivation
	Serbia	Not implemented	
	Ukraine	Not implemented	
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
	Bosnia & Herzegovina	Limited implementation	
Annex 5 Band D2 Transport and traffic	Georgia	Not implemented	
telematics (TTT)	Macedonia (FYROM)	Not implemented	
24.25-26.65 GHz	Russian Federation	Limited implementation	22.00-26.65 GHz, limited spectral density, protection areas, automatic deactivation
	Serbia	Not implemented	
	Ukraine	Not implemented	
	Bosnia & Herzegovina	Limited implementation	
Annex 5 Band E	Georgia	Not implemented	
Transport and traffic telematics (TTT)			
77-81 GHz	Serbia	Not implemented	
	Ukraine	Not implemented	Under study
	Bosnia & Herzegovina	Limited implementation	Committed
Annex 5 Band F1 Transport and traffic telematics (TTT)	Georgia	Not implemented	
	Macedonia (FYROM)	Not implemented	
24.050-24.075 GHz	Serbia	Not implemented	
	Ukraine	No info	
Annex 5 Band F2	Bosnia & Herzegovina	Limited implementation	Committed

Frequency Band	Country	Implementation	Reason/remarks
Transport and traffic	Georgia	Not implemented	
telematics (TTT) 24.075-24.150 GHz	Liechtenstein	Implemented	100 mW and no dwell time restrictions
	Macedonia (FYROM)	Not implemented	
	Serbia	Not implemented	
	Switzerland	Implemented	100 mW and no dwell time restrictions
	Ukraine	No info	
	Bosnia & Herzegovina	Limited implementation	Committed
Annex 5 Band F3	Georgia	Not implemented	
Transport and traffic telematics (TTT)	Macedonia (FYROM)	Not implemented	
24.150-24.250 GHz	Serbia	Not implemented	
	Ukraine	No info	
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
Annex 5 Band G1	Georgia	Not implemented	
Transport and traffic telematics (TTT)	Macedonia (FYROM)	Not implemented	
24.250-24.495 GHz	Montenegro	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Ukraine	Not implemented	
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
Annex 5 Band G2	Bosnia & Herzegovina	Not implemented	
Transport and traffic telematics (TTT)	Georgia	Not implemented	
24.495-24.500 GHz	Macedonia (FYROM)	Not implemented	
	Montenegro	Not implemented	
	Russian Federation	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Serbia	Not implemented	
	Ukraine	Not implemented	
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
	Bosnia & Herzegovina	Not implemented	
Annex 5 Band G3	Georgia	Not implemented	
Transport and traffic telematics (TTT)	Macedonia (FYROM)	Not implemented	
24.250-24.500 GHz	Montenegro	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Ukraine	Not implemented	
Annex 6 Band A	Georgia	Limited implementation	
Radiodetermination	Russian Federation	Not implemented	
applications 2400.0-2483.5 MHz	Ukraine	Limited implementation	e.i.r.p. ≤100 mW
	Andorra	Not implemented	
	Finland	Not implemented	
	France	Not implemented	
Annex 6 Band B	Georgia	Limited implementation	
Radiodetermination	Italy	Not implemented	
applications	Russian Federation	Limited implementation	e.i.r.p. ≤13 dBm
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
Annex 6 Band C	Andorra	Not implemented	
Radiodetermination	France	Limited implementation	Limited to 9880-9920 MHz with max e.i.r.p. 50 mW
applications	Georgia	Limited implementation	
9500-9975 MHz	Germany	Not implemented	Defence system

Frequency Band	Country	Implementation	Reason/remarks
	Russian Federation	Limited implementation	e.i.r.p. ≤13 dBm
	Slovak Republic	Not implemented	Defence systems
	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	Limited implementation	Effective radiated power ≤ 25 mW e.i.r.p., duty cycle ≤ 10%, indoor use only. 10.45-10.50 GHz available
	France	Limited implementation	Limited to 10.57-10.61 with max e.i.r.p. 20 mW
	Georgia	Limited implementation	
	Germany	Not implemented	ENG/OB video links equipment
Annex 6 Band D	Hungary	Limited implementation	e.i.r.p. 25 mW. ENG/OB systems are protected
Radiodetermination applications	Ireland	Limited implementation	Max power limitation of 25 mW to protect Fixed Wireless Access Local Area Service operating in the 10.5 GHz band
10.5-10.6 GHz	Luxembourg	Limited implementation	Limited to 25 mW. Reason: To avoid interference with other services
	Russian Federation	Limited implementation	e.i.r.p. 10mW, may be used for Radar Level Gauges only. In the band 10.54-10.56 GHz with max e.i.r.p. 20 dBm, may be used on river and sea vessels only
	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 10.575-10.600 GHz. Band may also be used for Radar Level Gauges
	Ukraine	Limited implementation	Limited to 10.51-10.54 GHz
Annex 6 Band E	Andorra	Not implemented	
Radiodetermination	France	Not implemented	
applications	Georgia	Limited implementation	

Frequency Band	Country	Implementation	Reason/remarks
13.4-14.0 GHz	Russian Federation	Not implemented	
	Spain	Not implemented	Due to lack of demand
	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	·
Annex 6 Band F Radiodetermination applications 24.05-24.25 GHz	Russian Federation	Limited implementation	Vehicle radars: Maximum 100 mW e.i.r.p. 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 Fixed radars: Maximum 100 mW e.i.r.p. 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
	Belarus	Not implemented	
Annex 6 Band G	Georgia	Not implemented	Under study
Radiodetermination applications	Macedonia (FYROM)	Not implemented	Planned
4.5-7.0 GHz	Russian Federation	Limited implementation	
	Serbia	Available in the range:	According to the Frequency Plan, 5.725-5.875 GHz is available for

Frequency Band	Country	Implementation	Reason/remarks
		5.725-5.875 GHz 5.15-5.25 GHz / 5.250-5.255 GHz / 5.255-5.350 GHz	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
	Ukraine	Not implemented	Under study
	Belarus	Not implemented	
	Georgia	Not implemented	
Annex 6 Band H	Macedonia (FYROM)	Not implemented	Planned
Radiodetermination applications	Russian Federation	Limited implementation	
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
	Ukraine	Not implemented	Under study
	Georgia	Not implemented	Under study
Annex 6 Band I	Macedonia (FYROM)	Not implemented	Planned
Radiodetermination	Russian Federation	Limited implementation	
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
	Ukraine	Limited implementation	Limited to 24.05-24.25 GHz
	Georgia	No info	
Annex 6 Band J	Macedonia (FYROM)	Not implemented	Planned
Radiodetermination	Russian Federation	Limited implementation	
applications 57-64 GHz	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
	Ukraine	Not implemented	Under study
	Georgia	No info	
	Macedonia (FYROM)	Not implemented	Planned
Annex 6 Band K Radiodetermination applications 75-85 GHz	Russian Federation	Limited implementation	In the band 76-77 GHz with max e.i.r.p. 30 dBm for automotive radars with continuous radiation with frequency modulation FM CW / in the band 77-81 GHz with max. e.i.r.p. spectral density -3 dBm/MHz for UWB automotive radars (channel bandwidth > 500 MHz)
	Serbia	Limited implementation	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)

Frequency Band	Country	Implementation	Reason/remarks
	Ukraine	Limited implementation	In the band 76-77 GHz average e.i.r.p. ≤23.5 dBm
	Azerbaijan	Not implemented	
	Belarus	Limited implementation	
	Bosnia & Herzegovina	Not implemented	
Annex 6 Band L	Georgia	Not implemented	
Radiodetermination	Macedonia (FYROM)	Not implemented	Under study
applications	Montenegro	Not implemented	
6.0-8.5 GHz	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Ukraine	Not implemented	
	United Kingdom	Implemented	Exclusion Zones to protect RAS sites apply. See ECC/DEC/(11)02
	Azerbaijan	Not implemented	
	Belarus	Limited implementation	
	Bosnia & Herzegovina	Not implemented	
Annex 6 Band M	Georgia	Not implemented	
Radiodetermination	Macedonia (FYROM)	Not implemented	Under study
applications	Montenegro	Not implemented	
24.5-26.5 GHz	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Ukraine	Not implemented	
	United Kingdom	Implemented	Exclusion Zones to protect RAS sites apply. See ECC/DEC/(11)02
	Azerbaijan	Not implemented	
Annex 6 Band N	Belarus	Limited implementation	
Radiodetermination	Bosnia & Herzegovina	Not implemented	
applications	Georgia	Not implemented	
57-64 GHz	Macedonia (FYROM)	Not implemented	Under study
	Montenegro	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Ukraine	Not implemented	
	Azerbaijan	Not implemented	
	Belarus	Limited implementation	
	Bosnia & Herzegovina	Not implemented	
Annex 6 Band O	Georgia	Not implemented	
Radiodetermination applications	Macedonia (FYROM)	Not implemented	Under study
75-85 GHz	Montenegro	Not implemented	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Ukraine	Not implemented	
	Belarus	Not implemented	
	Georgia	Not implemented	Lack of demand
Annex 6 Band P	Macedonia (FYROM)	Not implemented	Planned
Radiodetermination applications	Russian Federation	Not implemented	
17.1-17.3 GHz	Serbia	Not implemented	According to the Frequency Plan this part of the spectrum is aimed for WLL and RLANs
	Ukraine	Not implemented	
	Andorra	Not implemented	Under study
	Austria	Limited implementation	
	Belarus	Not implemented	
Annex 6 Band Q	Belgium	Not implemented	Under study
Radiodetermination applications	Bosnia & Herzegovina	Limited implementation	
30 MHz-12.4 GHz	Cyprus	Not implemented	Under study
	France	Limited implementation	
	Georgia	Not implemented	
	Greece	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Ireland	Limited implementation	
	Italy	No info	
	Lithuania	Not implemented	Under study
	Macedonia (FYROM)	Not implemented	
	Montenegro	Not implemented	Under study
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Spain	Not implemented	Under study
	Sweden	No	
	Ukraine	Not implemented	Under study
	United Kingdom	Limited implementation	Devices are limited to GPR only. Full implementation planned
	Andorra	Limited implementation	
	Austria	Limited implementation	According to Commission Decision 2009/343/EC
	Belarus	Not implemented	
	Bosnia & Herzegovina	Limited implementation	According to Commission Decision 2009/343/EC
	Cyprus	Limited implementation	According to Commission Decision 2009/343/EC
	Georgia	Not implemented	
Annex 6 Band R	Greece	Limited implementation	According to Commission Decision 2009/343/EC
Radiodetermination	Italy	Limited implementation	According to Commission Decision 2009/343/EC
applications	Latvia	Limited implementation	
2.2 - 8.0 GHz	Lithuania	Limited implementation	Only parameters set in 2009/343/EC are allowed
	Malta	Limited implementation	According to Commission Decision 2009/343/EC
	Macedonia (FYROM)	Not implemented	
	Portugal	Limited implemented	ECC/DEC/(07)01 of 30 March 2007 on BMA was implemented. The implementation of the amended ECC/DEC/(07)01 on 26 June 2009 is planned
	Russian Federation	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Serbia	Not implemented	
	Spain	Limited implementation	According to Commission Decision 2009/343/EC
	Sweden	Limited implementation	According to Commission Decision 2009/343/EC
	Ukraine	Not implemented	
	United Kingdom	Limited implementation	According to Commission Decision 2009/343/EC
	Austria	Not implemented	Under study
	Azerbaijan	No info	
	Belarus	No info	
	Belgium	No info	
	Bosnia and Herzegovina	No info	
	Bulgaria	Not implemented	
	Cyprus	Not implemented	
	Estonia	Not implemented	Planned
	Finland	Not implemented	
Annex 6 Band S1	France	Not implemented	Under study
Radiodetermination	Georgia	No info	
applications	Germany	Not implemented	
3.1 - 4. 8 GHz	Greece	No info	
	Iceland	No info	
	Ireland	Not implemented	
	Italy	No info	
	Latvia	Not implemented	Under study
	Liechtenstein	No info	
	Lithuania	Not implemented	
	Luxembourg	Not implemented	Planned
	Macedonia (FYROM)	No info	
	Malta	No info	

Frequency Band	Country	Implementation	Reason/remarks
	Monaco	No info	
	Montenegro	No info	
	Netherlands	Not implemented	Planned
	Poland	No info	
	Portugal	Not implemented	Under study
	Romania	No info	
	Russian Federation	No info	
	Serbia	No info	
	Spain	Not implemented	
	Switzerland	Not implemented	Under study
	Ukraine	No info	
	Austria	Not implemented	Under study
	Azerbaijan	No info	
	Belarus	No info	
	Belgium	No info	
	Bosnia and Herzegovina	No info	
Annex 6 Band S2	Bulgaria	Not implemented	
Radiodetermination	Cyprus	No info	
applications	Estonia	Not implemented	Planned
3.1 - 4. 8 GHz	Finland	Not implemented	
	France	Not implemented	Planned
	Georgia	No info	
	Germany	Not implemented	
	Greece	No info	
	Iceland	No info	
	Ireland	Not implemented	
	Italy	No info	

Frequency Band	Country	Implementation	Reason/remarks
	Latvia	Not implemented	Under study
	Liechtenstein	No info	
	Lithuania	Not implemented	
	Luxembourg	Not implemented	Planned
	Macedonia (FYROM)	No info	
	Malta	No info	
	Monaco	No info	
	Montenegro	No info	
	Netherlands	Not implemented	Planned
	Poland	No info	
	Portugal	Not implemented	Under study
	Romania	No info	
	Russian Federation	No info	
	Serbia	No info	
	Spain	Not implemented	
	Switzerland	Not implemented	Under study
	Ukraine	No info	
A 7 D 1 A	Azerbaijan	No info	
Annex 7 Band A Alarms	Georgia	Not implemented	
868.600-868.700 MHz	Russian Federation	Not implemented	
	Ukraine	Limited implementation	The maximal transmitter power 10 mW
	Azerbaijan	No info	
Annex 7 Band B Alarms 869.250-869.300 MHz	Georgia	Not implemented	
	Russian Federation	Not implemented	
	Ukraine	Not implemented	
Annex 7 Band C	Azerbaijan	No info	

Frequency Band	Country	Implementation	Reason/remarks
Alarms	Georgia	Not implemented	
869.650-869.700 MHz	Russian Federation	Not implemented	
	Ukraine	Not implemented	Under study
	Azerbaijan	No info	
Annex 7 Band D	Georgia	No info	
Alarms 869.200-869.250 MHz	Russian Federation	Not implemented	
	Ukraine	Limited implementation	The maximal transmitter power 10 mW
Annex 7 Band E	Azerbaijan	No info	
Alarms	Georgia	No info	
869.300-869.400 MHz (Technical parameters have	Russian Federation	Not implemented	
been changed)	Ukraine	Not implemented	
Annex 8 Band A	Azerbaijan	No info	
Model Control	Georgia	No info	
26.995, 27.045, 27.095, 27.145, 27.195 MHz	Russian Federation	Limited implementation	Power limited to 10 mW. Maximum antenna gain is 3 dB, channel spacing 50 kHz
Annex 8 Band B	France	Limited implementation	Limited to 34.995-35.055 MHz. Dedicated networks for Ministry of transport
Model Control	Georgia	Not implemented	
34.995-35.225 MHz	Germany	Limited to 35.005-35.205 MHz	Limited to 35.005-35.205 MHz. Emergency services
	Russian Federation	Not implemented	Under study
Annex 8 Band C Model Control 40.665, 40.675, 40.685, 40.695 MHz	Georgia	Not implemented	
Annex 9 Band A1	Azerbaijan	No info	
Inductive applications	Georgia	Not implemented	
9 – 90 kHz	Macedonia (FYROM)	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	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	Not implemented	
	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 dB μ A/m, in the band 59.75-60.25 kHz is 42 dB μ A/m, in the band 60.250-70 kHz is 69 dB μ A/m, in the band 70-119 kHz is 42 dB μ A/m
	Azerbaijan	No info	
	Georgia	Limited implementation	Implemented according to the EC SRD Decision 2006/771/EC
	Macedonia (FYROM)	Not implemented	
Annex 9 Band A2 Inductive applications 90-119 kHz	Russian Federation	Implemented	70-119 kHz: Maximum magnetic field strength is +42 dBµA/m at 10 m. In case of external antennas only loop coil antennas may be employed
30 113 KHZ	Serbia	Not implemented	
	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
	Azerbaijan	No info	
	Georgia	Not implemented	
Annex 9 Band A3 Inductive applications 119-135 kHz	Russian Federation	Implemented	Maximum magnetic field strength is +66 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
113-133 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

Frequency Band	Country	Implementation	Reason/remarks
	Azerbaijan	No info	
Annex 9 Band B	Georgia	Not implemented	
Inductive applications	Russian Federation	Not implemented	
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
	Azerbaijan	No info	
Annex 9 Band C	Georgia	Not implemented	
Inductive applications	Russian Federation	Not implemented	
140.0-148.5 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 140-148.5 kHz is 37.7 dBµA/m
Annou O Don d D	Azerbaijan	No info	
Annex 9 Band D Inductive applications	Georgia	Not implemented	
6765-6795 kHz	Russian Federation	Implemented	Maximum magnetic field strength is +42 dBµA/m at 10 m
0.00 0.00 m.iz	Ukraine	Not implemented	
Annex 9 Band E	Azerbaijan	No info	
Inductive applications	Georgia	Not implemented	
7400-8800 kHz	Russian Federation	Implemented	Maximum magnetic field strength is +9 dBµA/m at 10 m
	Spain	No restriction	Frequency band 7350-8800 kHz
	Ukraine	Not implemented	
Annex 9 Band F	Georgia	Not implemented	
Inductive applications	Russian Federation	Implemented	Maximum magnetic field strength is +42 dBµA/m at 10 m
13.553-13.567 MHz	Ukraine	Not implemented	
Annex 9 Band F1	Andorra	Not implemented	Planned
Inductive applications	Belarus	Not implemented	
13.410-13.553 MHz			
13.567-13.710 MHz			
13.110-13.410 MHz			
13.710-14.010 MHz	Spain	Not implemented	Planned

Frequency Band	Country	Implementation	Reason/remarks
12.660-13.110 MHz	Switzerland	Not implemented	Planned
14.010-14.460 MHz 11.810-112.660 MHz			
14.460-15.310 MHz			
141400 101010 111112	Ukraine	Not implemented	
Annex 9 Band F2	Belarus	Not implemented	
Inductive applications	Georgia	Not implemented	
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 F3	Andorra	Not implemented	Planned
Inductive applications	Belarus	Not implemented	
13.460-13.553 MHz			
13.567-13.660 MHz			
13.360-13.460 MHz 13.660-13.760 MHz	Spain	Not implemented	Planned
13.110-13.360 MHz			
13.760-14.010 MHz 12.660-13.110 MHz	United Kingdom	Limited implementation	The bands 13.460-13.553 MHz and 13.567-13.660 MHz are limited to 9 dBuA/m @ 10m
14.010-14.460 MHz			
	Georgia	Not implemented	
Annex 9 Band G	Russian Federation	Implemented	Maximum magnetic field strength is +42 dBµA/m at 10 m
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
	Georgia	Not implemented	
Annex 9 Band H Inductive applications	Russian Federation	Limited implementation	Maximum magnetic field strength is -4 dBµA/m at 10 m
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
Anney O Bend V	Georgia	Not implemented	
Annex 9 Band K Inductive applications	Russian Federation	Not implemented	
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

Frequency Band	Country	Implementation	Reason/remarks
Annex 9 Band L1	Georgia	Not implemented	
Inductive applications	Russian Federation	Not implemented	
148.5 kHz-5 MHz	Ukraine	Not implemented	Under study
Annex 9 Band L2	Georgia	Not implemented	
Inductive applications	Russian Federation	Not implemented	
5-30 MHz	Ukraine	No info	
Annex 9 Band L3	Georgia	Not implemented	
Inductive applications	Russian Federation	Not implemented	
400-600 kHz	Ukraine	Not implemented	Under study
	Andorra	No info	
	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
	Azerbaijan	No info	
	Belarus	Limited implementation	Limited to 33.175-40 MHz / 40.025-48.5 MHz
	Croatia	Not implemented	Defence systems
Annex 10 Band A Radio Microphone applications including aids for the hearing impaired	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
29.7-47.0 MHz	Estonia	Limited to 37.6-38.6 MHz	Land mobile
	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
	France	Limited implementation	Limited to 32.8, 36.4, 39.2 MHz 1 mW e.r.p. and 200 kHz
	Georgia	Not implemented	
	Germany	Limited implementation	Limited to 32.4-38.2 MHz. Permitted channel spacing 10 kHz below 36 MHz and 40 kHz above 36 MHz
	Greece	Limited implementation	Limited 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 taly Liechtenstein	Limited implementation Limited to 41.0-43.6 MHz	Limited to 34.9-38.5 MHz band is allocated
•	Limited to 41 0-43 6 MHz	
iechtenstein	LITTILEG TO 41.0-43.0 IVII IZ	Military application
	Limited implementation	Limited to 10 channels in the band 31.4-39.6 MHz
_ithuania	Limited implementation	only 30.01-30.3 MHz, 30.5-32.15 MHz, and 32.45-37.5 MHz are allowed
_uxembourg	Limited implementation	excluding the use of the band 34.995-35.225 MHz
Malta	Limited implementation	Limited 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, 43.8, 44, 44.25, 44.4, 44.475, 44.5, 44.65, 44.75, 44.975, 45, 45.25, 45.45, 45.475, 45.65, 45.75, 45.8, 45.95, 45.975, 46, 46.125, 46.175, 46.225, 46.425, 46.45, 46.475,
N N	lalta lorway ortugal comania	Limited implementation Limited implementation Ortugal Not implemented Limited implementation

Frequency Band	Country	Implementation	Reason/remarks
			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	Limited 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 10 channels in the band 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	
Annex 10 Band B			
Radio Microphone applications including aids			
for the hearing impaired			
173.965-216.000 MHz			
	Azerbaijan	No info	
Annex 10 Band C	Belarus	Limited implementation	
Radio Microphone applications including aids	Croatia	Limited implementation	
for the hearing impaired	Georgia	Not implemented	
863-865 MHz	Russian Federation	Not implemented	e.r.p. 10 mW, duty cycle 100%
	Ukraine	Limited implementation	The maximal transmitter power is 10 mW
Annex 10 Band C1	Azerbaijan	Not implemented	
Radio Microphone	Belarus	Not implemented	
applications including aids	Germany	Not implemented	Not available
for the hearing impaired 916.1-916.5 MHz			
916.1-916.5 MHz 917.3-917.7 MHz			
917.3-917.7 WII12	United Kingdom	Implemented	The Additional restrictions to protect ER-GSM apply in the UK
Annex 10 Band C1	Azerbaijan	Not implemented	
Radio Microphone	Belarus	Limited implementation	
applications including aids	Germany	Not implemented	Not available
for the hearing impaired	Liechtenstein	Not implemented	ER-GSM protection

Frequency Band	Country	Implementation	Reason/remarks
918.5-918.9 MHz			
919.7-920.1 MHz			
	Switzerland	Not implemented	ER-GSM protection
	Andorra	Limited implementation	
	Azerbaijan	No info	
	Belarus	Not implemented	
	Denmark	Limited implementation	Tuning range
	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	Malta	Not implemented	
for the hearing impaired 174-216 MHz	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	Limited to 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
	United Kingdom	Implemented	The tuning range in the UK is 174 to 175.1 MHz
	Azerbaijan	No info	
Annex 10 Band E1	Belarus	Limited implementation	Limited to 470-638 MHz (5 mW). Limited to 774-782 MHz
Radio Microphone applications including aids	Finland	Limited implementation	Regional restrictions. Radiomicrophones in the frequency band 694-786 MHz allowed until the end of year 2020
for the hearing impaired	France	Limited implementation	For professional users
470-786 MHz	Georgia	Not implemented	
	Germany	Limited implementation	
	Greece	Limited implementation	10 mW e.r.p. max

Frequency Band	Country	Implementation	Reason/remarks
	Italy	Limited implementation	
	Lithuania	Limited implementation	In all 470–862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required
	Malta	Limited implementation	
	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
	Russian Federation	Limited implementation	470-638 MHz: Power limited to 5 mW. Maximum antenna gain is 3 dB. Channel spacing is 200 kHz. 710-726 MHz: Power limited to 5 mW. Maximum antenna gain is 3 dB. Channel spacing is 200 kHz
	Ukraine	Limited implementation	
	Andorra	Not implemented	
	Azerbaijan	No info	
	Austria	Limited implementation	Currently old regulation (470-862 MHz; 50 mW e.r.p.; 200 kHz channel spacing) is in force
	Belarus	Not implemented	
	Belgium	Not implemented	Planned
	Bosnia & Herzegovina	Not implemented	
Annex 10 Band E2	Bulgaria	Not implemented	
Radio Microphone	Croatia	Implemented	Individual license required
applications including aids for the hearing impaired	Cyprus	Not implemented	
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	Limited implementation	10 mW e.r.p. max
	Georgia	Not implemented	
	Hungary	Not implemented	
	Italy	Not implemented	
	Latvia	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Lithuania	Limited implementation	In all 470-862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required
	Macedonia (FYROM)	Not implemented	
	Malta	Not implemented	
	Montenegro	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	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovak Republic	Not implemented	
	Spain	Not implemented	Only broadcasting TV in this band
	Sweden	Not implemented	
	Ukraine	Not implemented	
	Austria	Limited implementation	Currently old regulation (470-862 MHz; 50 mW e.r.p.; 200 kHz channel spacing) is in force
	Azerbaijan	No info	
	Belgium	Not implemented	Planned
	Bosnia & Herzegovina	Not implemented	
Annex 10 Band E3	Bulgaria	Not implemented	
Radio Microphone applications including aids	Croatia	Not implemented	
for the hearing impaired823-826 MHz	Cyprus	Not implemented	
	Estonia	Not implemented	Under study
	France	Limited implementation	For professional users. Limited to 50 mW e.r.p.
	Georgia	Not implemented	
	Greece	Not implemented	
	Hungary	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Italy	Not implemented	
	Latvia	Not implemented	
	Lithuania	Limited implementation	In all 470–862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required
	Macedonia (FYROM)	Not implemented	
	Malta	Not implemented	
	Montenegro	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	
	Russian Federation	Not implemented	
	Serbia	Not implemented	
	Slovak Republic	Not implemented	
	Sweden	Limited implementation	Licence exemption10 mW e.r.p. handheld equipment. Licence exemption 50 mW e.r.p.bodyworn equipment
	Ukraine	Not implemented	
	United Kingdom	Planned	
	Austria	Limited implementation	Currently old regulation (470-862 MHz; 50 mW e.r.p.; 200 kHz channel spacing) is in force
	Azerbaijan	No info	
	Belgium	Not implemented	Planned
Annex 10 Band E4	Bosnia & Herzegovina	Not implemented	
Radio Microphone	Bulgaria	Not implemented	
applications including aids for the hearing impaired	Croatia	Not implemented	
826-832 MHz	Cyprus	Not implemented	
	Estonia	Not implemented	Under study
	France	Limited implementation	For professional users.
			Limited to 826-830 MHz with 50 mW max e.r.p.
	Georgia	Not implemented	

Frequency Band	Country	Implementation	Reason/remarks
	Greece	Not implemented	
	Hungary	Not implemented	
	Italy	Not implemented	
	Latvia	Not implemented	
	Lithuania	Limited implementation	In all 470-862 MHz band 50 mW e.r.p. Only for radio microphones. Individual registrations required
	Macedonia (FYROM)	Not implemented	
	Malta	Not implemented	
	Montenegro	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	
	Russian Federation	Not implemented	
	Slovak Republic	Not implemented	
	Sweden	Limited implementation	Licence exemption 50 mW e.r.p.
	Ukraine	Not implemented	
	United Kingdom	Planned	
	Azerbaijan	No info	
	Belarus	Not implemented	
	Georgia	Not implemented	
Annex 10 Band F	Ireland	Not implemented	All-island WAPECS in Operation
Radio Microphone applications including aids	Italy	Not implemented	Military application
for the hearing impaired	Malta	Not implemented	Planned
1785-1795 MHz	Netherlands	Implemented	max 50 mW e.r.p. Channel spacing 600 kHz
	Russian Federation	Not implemented	
	Slovak Republic	Not implemented	Fixed Service

Frequency Band	Country	Implementation	Reason/remarks
	Sweden	Not implemented	
	Ukraine	Not implemented	Under study
	United Kingdom	Implemented	Individual licence required
Annex 10 Band G	Azerbaijan	No info	
Radio Microphone	Belarus	Not implemented	
applications including aids for the hearing impaired	Croatia	Limited implementation	Individual licence required
1795-1800 MHz	Czech Republic	Limited implementation	
	Georgia	Not implemented	
	Ireland	Not implemented	All-island WAPECS in Operation
	Italy	Not implemented	Military application
	Netherlands	Implemented	max 50 mW e.r.p. Channel spacing 600 kHz
	Russian Federation	Not implemented	
	Slovak Republic	Not implemented	Fixed Service
	Sweden	Not implemented	
	Ukraine	Not implemented	Under study
	United Kingdom	Implemented	Individual licence required
	Austria	Not implemented	Planned
	Belarus	Not implemented	
Annex 10 Band G1			
Radio Microphone	Liechtenstein	Not implemented	Planned
applications including aids			
for the hearing impaired 1800.0-1804.8 MHz	Switzerland	Not implemented	Planned
1000.0-1004.0 WITIZ	Switzeriariu	Not implemented	Fidilileu
	Ukraine	Not implemented	Under study
	United Kingdom	Not Implemented	
Annex 10 Band H1	Azerbaijan	No info	

Frequency Band	Country	Implementation	Reason/remarks
Radio Microphone	Belarus	Not implemented	
applications including aids for the hearing impaired	Georgia	Not implemented	
169.4000-169.4750 MHz	Russian Federation	Not implemented	
	Ukraine	Not implemented	Under study
Anney 40 Dand IIO	Azerbaijan	No info	
Annex 10 Band H2 Radio Microphone	Belarus	Not implemented	
applications including aids	Georgia	Not implemented	
for the hearing impaired 169.4875-169.5875 MHz	Russian Federation	Not implemented	
109.407 3-109.307 3 WITIZ	Ukraine	Not implemented	Under study
	Andorra	Limited implementation	
	Azerbaijan	No info	
	Austria	Not implemented	Implementation depends on market demand
	Belarus	Not implemented	
	Belgium	Not implemented	
	Bulgaria	Not implemented	The band is used for national security needs
	Cyprus	Not implemented	
Annex 10 Band I Radio Microphone applications including aids for the hearing impaired	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
169.4-174.0 MHz	Finland	Not implemented	
	France	Not implemented	
	Georgia	Not implemented	
	Greece	Not implemented	
	Hungary	Not implemented	Not planned. Governmental use in the band
	Iceland	No info	
	Ireland	Not implemented	
	Italy	Limited implementation	Limited to 169.815 MHz

Frequency Band	Country	Implementation	Reason/remarks
	Liechtenstein	Not implemented	Occupied with mobile services
	Malta	Not implemented	
	Netherlands	Not implemented	Planned
	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
	Ukraine	Not implemented	
	United Kingdom	Limited implementation	Implemented in 173.325-174.000 MHz and at 2 mW only
	Andorra	Not implemented	
	Austria	Not implemented	Planned
	Azerbaijan	No info	
	Belarus	Not implemented	
Annex 10 Band J			
Radio Microphone			
applications including aids for the hearing impaired	Liechtenstein	Not implemented	Under study
1492-1518 MHz	Netherlands	Not implemented	
	Switzerland	Not implemented	Under study

Frequency Band	Country	Implementation	Reason/remarks
	United Kingdom	Limited implementation	Limited PMSE operation allowed in 1517-1518 MHz subject to individual authorisation
Annex 11 Band A1	Azerbaijan	No info	
RFID	Russian Federation	Not implemented	
2446-2454 MHz	Ukraine	Not implemented	Under study
Annex 11 Band A2	Azerbaijan	No info	
RFID	Russian Federation	Not implemented	
2446-2454 MHz	Ukraine	Not implemented	Under study
	Azerbaijan	No info	
Annex 11 Band B1	Georgia	Not implemented	
RFID	Macedonia (FYROM)	Not implemented	
865.0-865.6 MHz	Russian Federation	Not implemented	
	Ukraine	Not implemented	Under study
	Azerbaijan	No info	
	Georgia	No info	
	Macedonia (FYROM)	Not implemented	
Annex 11 Band B2 RFID 865.6-867.6 MHz	Russian Federation	Limited implementation	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
	Azerbaijan	No info	
Annex 11 Band B3	Georgia	No info	
RFID	Macedonia (FYROM)	Not implemented	
867.6-868.0 MHz	Russian Federation	Limited implementation	Limited to 866-868 MHz. The assignment of radio frequencies or channels should too be performed in established order
	Ukraine	Not implemented	Under study

Frequency Band	Country	Implementation	Reason/remarks
	Azerbaijan	Not implemented	
	Belarus	Not implemented	
Annex 11 Band C	Liechtenstein	Limited implementation	Limited to the 2 channels below 918 MHz: ER-GSM protection
RFID			
915-921 MHz	Netherlands	Not implemented	
	Switzerland	Limited implementation	Limited to the 2 channels below 918 MHz: ER-GSM protection
	Ukraine	Not implemented	Under study
	United Kingdom	Implemented	The Additional restrictions to protect ER-GSM apply in the UK
Annex 12 Band A	Azerbaijan	No info	
Active Medical Implants	Georgia	No info	
and their associated peripherals	Russian Federation	Not implemented	
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	Azerbaijan	No info	
Active Medical Implants	Georgia	Not implemented	
and their associated peripherals	Russian Federation	Not implemented	
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
	Azerbaijan	No info	
Annex 12 Band C Active Medical Implants	Georgia	Not implemented	
and their associated	Russian Federation	Not implemented	
peripherals 30.0-37.5 MHz	Serbia	Not implemented	In the Frequency Plan in this part of the spectrum there are not available frequency slots for this applications
	Ukraine	Limited implementation	The maximal transmitter power is 1 mW
Annex 12 Band D	Azerbaijan	No info	
Active Medical Implants and their associated	Georgia	Not implemented	
peripherals	Russian Federation	Not implemented	
12.5-20.0 MHz	Serbia	Limited implementation	Available in the range: 13.553-13.567 MHz.

Frequency Band	Country	Implementation	Reason/remarks
			According to the Frequency Plan, this part of the spectrum is available for the SRD applications
	Ukraine	Not implemented	Under study
	Azerbaijan	No info	
	Bosnia & Herzegovina	Not implemented	
Annex 12 Band E	Belarus	Not implemented	
Active Medical Implants	Georgia	Not implemented	
and their associated	Macedonia (FYROM)	Not implemented	
peripherals 2483.5-2500 MHz	Montenegro	Not implemented	
2463.3-2300 WITZ	Russian Federation	Implemented	
	Serbia	Not implemented	
	Ukraine	Not implemented	
Annex 13 Band A	Azerbaijan	No info	
Wireless Audio	Georgia	Not implemented	
Applications 863-865 MHz	Ukraine	Not implemented	
Annex 13 Band B	Azerbaijan	No info	
Wireless Audio Applications	Russian Federation	Not implemented	
864.8-865.0 MHz	Ukraine	Limited implementation	e.i.r.p. ≤10 _M B _T
Annex 13 Band C	Azerbaijan	No info	
Wireless Audio	Austria	Not implemented	Under study
Applications 1795-1800 MHz	Belarus	Not implemented	
1766 1666 18112	Croatia	Not implemented	Lack of demand
	Finland	Limited implementation	Individual license required
	France	Not implemented	
	Georgia	Limited implementation	
	Ireland	Not implemented	All-island WAPECS in Operation
	Italy	Not implemented	Military application

Frequency Band	Country	Implementation	Reason/remarks
	Russian Federation	Not implemented	
	Slovak Republic	Not implemented	Fixed service
	Ukraine	Not implemented	Under study
	United Kingdom	Limited implementation	Individual licence required
	Azerbaijan	No info	
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	Limited to 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)

APPENDIX 4: 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
BMA	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
ER-GSM	Extended spectrum for GSM for Railways
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
LAES	Location Application for Emergency Services
LBT	Listen Before Talk
LDC	Low Duty Cycle
LP-AMI	Low Power Active Medical Implant
LT2	Location Tracking Type 2
MBANS	Medical Body Area Network Systems

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
TTT	Transport & Traffic Telematics
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
WIA	Wireless Industrial Applications
WLL	Wireless Local Loop

APPENDIX 5: 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 21. These limits are advisory with a view to facilitating sharing between systems in the same frequency band.

For FHSS: the accumulated dwell time per hopping position should always fulfil the duty cycle identified.

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%

DOCUMENT HISTORY

	Text	Page	Edition
	Editorial amendment	2	September 2015
Annex 1	Non-specific Short Range Devices	6	February 2014
Annex 2	Tracking, Tracing and Data Acquisition	12	May 2015
Annex 3	Wideband Data Transmission systems	15	October 2012
Annex 4	Railway applications	17	October 2012
Annex 5	Transport & Traffic Telematics (TTT)	19	July 2015
Annex 6	Radiodetermination applications	22	May 2015
Annex 7	Alarms	25	May 2013
Annex 8	Model Control	26	October 2009
Annex 9	Inductive applications	27	February 2014
Annex 10	Radio microphones and Assistive Listening Devices	31	September 2015
Annex 11	Radio frequency identification applications	35	February 2014
Annex 12	Active Medical Implants and their associated peripherals	37	October 2012
Annex 13	Wireless Audio applications	39	February 2014
Appendix 1	Implementation Status	40	September 2015
Appendix 2	List of relevant ECC/ERC Decisions, Reports, EC Decisions and ETSI Standards	48	August 2015
Appendix 3	National restrictions	57	September 2015
Appendix 4	List of abbreviations as used in this document	106	May 2015
Appendix 5	Duty cycle categories	108	February 2014
	Document History	109	September 2015