3.2 Frequency bands and channels reserved and to be made available in 2008/2009, for the operation of non-publically available electronic communications networks and services

The terms and abbreviations used mean the following:

Rights of use required: identification of the need to allocate rights of use according to article 16 of Law no. 5/2004 of 10 February

Exploration mode: (simplex, duplex or semi-duplex, when applicable)

simplex: operation mode in which it is possible to alternately transmit in both directions in the telecommunication channel, using one or two frequencies *duplex:* operation mode in which it is possible to simultaneously transmit in both directions in the telecommunication channel, using two frequencies *semi-duplex:* simplex operation mode at one end of the telecommunication channels and duplex operation at the other, using two frequencies

Type of channel: (spacing between adjacent channels, when applicable)

Shared use: use of a frequency/channel by more than one entity

Exclusive use: use of a frequency/channel by one single entity

Scope of use:

n - *national scope:* use of a frequency/channel in the national territory *g* - *geographical scope:* use of a frequency/channel on a given, well determined area by radiocommunication stations, such as fixed stations, broadcasting stations and Earth stations.

Allocation procedure: full accessibility or selection by competition or comparison

FIXE	D SERVICE - DECAM	IETRIC WAVE LI	NKS (SFHF))
Frequency Band	Rights of use required	Type of use	Scope of use	Allocation procedure
3200 - 3375 kHz	NO	(2)	g	full accessibility
6765 - 6795 kHz	NO	(2)	g	full accessibility
7350 - 7757 kHz	NO	(2)	g	full accessibility
13450 – 13495 kHz	NO	(2)	g	full accessibility
13515 - 13570 kHz	NO	(2)	g	full accessibility
13914 - 14000 kHz	NO	(2)	g	full accessibility
14350 - 14604 kHz	NO	(2)	g	full accessibility
14670 – 14990 kHz	NO	(2)	g	full accessibility
15800 - 16180 kHz	NO	(2)	g	full accessibility
16231-16360 kHz	NO	(2)	g	full accessibility
17452 - 17480 kHz	NO	(2)	g	full accessibility
18030 – 18052 kHz	NO	(2)	g	full accessibility
18168 – 18249 kHz	NO	(2)	g	full accessibility
18373 – 18780 kHz	NO	(2)	g	full accessibility
19120 – 19680 kHz	NO	(2)	g	full accessibility
19800 - 19990 kHz	NO	(2)	g	full accessibility
20010 - 20442 kHz	NO	(2)	g	full accessibility
20680 - 21000 kHz	NO	(2)	g	full accessibility
21850 - 21870 kHz	NO	(2)	g	full accessibility
22855 - 22900 kHz	NO	(2)	g	full accessibility
23000 - 23200 kHz	NO	(2)	g	full accessibility
23350 - 24125 kHz	NO	(2)	g	full accessibility
24325 - 24890 kHz	NO	(2)	g	full accessibility
25010 - 25070 kHz	NO	(2)	g	full accessibility
25210 - 25550 kHz	NO	(2)	g	full accessibility
26175 - 26870 kHz	NO	(2)	g	full accessibility
26957 - 27500 kHz	NO	(2)	g	full accessibility
27500 – 27850 kHz	NO	(2)	g	full accessibility
29700 - 30005 kHz	NO	(2)	g	full accessibility

 ⁽¹⁾ Shared Use channels.
⁽²⁾ Band shared with other users.

ICP-ANACOM Autoridade Nacional de Comunicações

FIXE	D SERVICE - PO	INT-to-POINT L	INKS	
Frequency Band	Rights of use required	Type of use	Scope of use	Allocation procedure
406.1-410 MHz	NO	(2) (3)	g	full accessibility
410-430 MHz	NO	(3) (4)	g	full accessibility
1350 - 1375 MHz 1492 - 1517 MHz CEPT Rec. T/R 13-01 A	NO	(3)	g	full accessibility
1375 - 1400 MHz 1427 - 1452 MHz CEPT Rec. T/R 13-01 B	NO	(3)	g	full accessibility
2025 - 2110 MHz 2200 - 2290 MHz CEPT Rec. T/R 13-01 C	NO	(3)	g	full accessibility
6 GHz (Low) (5925 - 6425 MHz) ERC/REC 14-01 Annex 1	NO	(3)	g	full accessibility
6 GHz (High) (6425 – 7110 MHz) ERC/REC 14-02 Annex 1	NO	(3)	g	full accessibility
7 GHz (Low) (7125-7425 MHz) ECC/REC/(02)06 Annex 1	NO	(3)	g	full accessibility
7 GHz (High) (7425-7725 MHz) ECC/REC/(02)06 Annexes 1 and 3	NO	(3)	g	full accessibility
8 GHz (Low) (7700 – 8300 MHz) Rec. ITU-R F.386 Annex 1	NO	(3)	g	full accessibility
8 GHz (High) (8200 – 8500 MHz) Rec. ITU-R F.386	NO	(3)	g	full accessibility
11 GHz (10.7 – 11.7 GHz) ERC/REC 12-06 Rec3	NO	(3)	g	full accessibility
13 GHz (12.75 - 13.25 GHz) Rec. ITU-R F.497	NO	(3)	g	full accessibility
13 GHz (12.75 – 13.25 GHz) ERC/REC 12-02 Annexes A and B	NO	(3)	g	full accessibility
15 GHz (14.5 – 15.35 GHz) ERC/REC 12-07 Annex A	NO	(3)	g	full accessibility
18 GHz (17.7 – 19.7 GHz) ITU-R F.595 Annexes 3 and 4	NO	(3)	g	full accessibility
18 GHz (17.7 – 19.7 GHz) ERC/REC 12-03 Annex A	NO	(3)	g	full accessibility
23 GHz (22 - 23.6 GHz) CEPT Rec. T/R 13-02 Annex A	NO	(3)	g	full accessibility

 ⁽¹⁾ Shared Use channels.
⁽²⁾ Band with specific planning at 12.5 kHz and 25 kHz (simplex).
⁽³⁾ Band shared with other users.

 $^{^{\}rm (4)}$ Band with specific planning at 12.5 kHz and 25 kHz (duplex) and shared with the land mobile service.

ICP-ANACOM

FIXED SERVICE - POINT-to-POINT LINKS (cont.)								
Frequency Band	Rights of use required	Type of use	Scope of use	Allocation procedure				
32 GHz (31.8 – 33.4 GHz) ERC/REC/(01)02	NO	(2)	g	full accessibility				
38 GHz (37 - 39.5 GHz) CEPT Rec T/R 12-01	NO	(2)	g	full accessibility				
58 GHz (57 – 59 GHz) ERC/REC 12-09 Annex A	NO	(2)	g	full accessibility				
74 GHz (74 – 76 GHz) ECC/REC/(05)07 Annex 4	NO	(2)	g	full accessibility				
84 GHz (84 – 86 GHz) ECC/REC/(05)07 Annex 4	NO	(2)	g	full accessibility				

FIXED SERVICE - STUDIO TRANSMITTER LINK Studio Transmitter Link (STL)							
Frequency Band	Rights of use required	Type of channel	No of channels (1)	Scope of use	Allocation procedure		
1517 – 1525 MHz	NO	100 kHz 300 kHz	80	g g	full accessibility ⁽³⁾ full accessibility ⁽³⁾		

BROADCASTING SERVICE - SAP/SAB video links ⁽⁴⁾								
Frequency Band	Rights of use required	Type of channel	No of channels (1)	Scope of use	Allocation procedure			
2025-2110 MHz	NO	(5)	(6)	g	full accessibility			
2200-2260 MHz	NO	(5)	(6)	g	full accessibility			
2390-2400 MHz	NO	(5)	(6)	g	full accessibility			
2483.5-2500 MHz	NO	(5)	(6)	g	full accessibility			
10-10.45 GHz	NO	(5)	(6)	g	full accessibility			

⁽¹⁾ Shared Use channels.

⁽²⁾ Band shared with other users.

⁽³⁾ Limited to holders of sound broadcasting licence (permit).

 ⁽⁴⁾ SAP/SAB video links, particularly for wireless cameras, portable and mobile SAP/SAB video links and SAP/SAB point-to-point video links used for live transmission of events.
⁽⁵⁾ Depending on request received.

⁽⁶⁾ Depending on type of channel.

ICP-ANACOM

Integrated Emergency and Security Network System							
Frequency Band	Rights of use required	Type of channel	No of channels (1)	Scope of use	Allocation procedure		
383-385 MHz / 393-395 MHz	N. A.	25 kHz	80 (4)	n	Resolution of the Council of Ministers no. 56/2003 of 8 April		

GSM-R						
Frequency Band	No of channels (1)	Scope of use	Allocation procedure			
876 -880 MHz / 921 -925 MHz	NO	200kHz ⁽⁵⁾	20	n	To be defined	

LAND MOBILE SERVICE (SMT)							
Frequency Band	Rights of use required	Type of channel Exploration Mode	Type of use	Scope of use	Allocation procedure		
29.7 - 41 MHz	NO	20 kHz simplex	(3)	g	full accessibilit		
27.7 - 41 MINZ	NU	20 kHz semi-duplex	(3)	g	full accessibility		
(0, 07 E MIL	NO	12.5 kHz simplex	(3)	g	full accessibility		
68 - 87.5 MHz	NU	12.5 kHz semi-duplex	(3)	g	full accessibility		
148 - 174 MHz	NO	12.5 kHz simplex	(3)	g	full accessibility		
140 - 174 WHZ		12.5 kHz semi-duplex	(3)	g	full accessibility		
	NO	12.5 kHz simplex	(3)	g	full accessibility		
440 - 450 MHz		12.5 kHz semi-duplex	(3)	g	full accessibility		
450 - 470 MHz	NO	12.5 kHz simplex	(3)	g	full accessibility		
		12.5 kHz semi-duplex	(3)	a	full accessibilit		

(2) Shared Use channels.
(3) Band shared with other users.
(4) The 202 action of the second seco

ICP-ANACOM

⁽¹⁾ Exclusive use channels. ⁽¹⁾ Exclusive use channels.

 $^{^{\}rm (4)}$ 4 channels in use in the 383-385 MHz/ 393-395 MHz extension band.

 $^{^{\}rm (5)}$ 876-876.1 MHz sub-band is used with 12.5 kHz spacing between channels.

LAND MOBILE SERVICE – Systems using digital technology							
Frequency Band	Rights of use required Type of channel		No of channels (2)	Scope of use	Allocation procedure		
410 - 430 MHz	NO	25 kHz	105	g	full accessibility		

MOBILE MARITIME SERVICE (SMM)							
Frequency Band	Rights of use required	Type of channel Exploration Mode	No of channels (1)	Scope of use	Allocation procedure		
156 – 174 MHz	NO	25 kHz simplex	26	g	full accessibility		
(Appendix 18 of the RR)	NO	25 kHz duplex	33	g	full accessibility		

AERONAUTICAL MOBILE SERVICE (SMA)							
Frequency Band	Rights of use required	Type of channel	Type of use	Scope of use	Allocation procedure		
3400 - 3500 kHz	NO	3 kHz	(2)	g	full accessibility		
5480 - 5680 kHz	NO	3 kHz	(2)	g	full accessibility		
8815 - 8965 kHz	NO	3 kHz	(2)	g	full accessibility		
11275 - 11400 kHz	NO	3 kHz	(2)	g	full accessibility		
13260 - 13360 kHz	NO	3 kHz	(2)	g	full accessibility		
17900 - 17970 kHz	NO	3 kHz	(2)	g	full accessibility		
117.975 - 137 MHz	NO	25 kHz	(2)	g	full accessibility		
117.975 - 137 MHz	NO	8.33 kHz	(2)	g	full accessibility		
143.9 - 144 MHz ⁽³⁾	NO	12.5 kHz simplex	(2)	n	full accessibility		

 ⁽¹⁾ Shared Use channels.
⁽²⁾ Band shared with other users.
⁽³⁾ Sport and recreational free flight and engineless ultralights and hang gliders.

	AERONAUTICAL RADIONAVIGATION SERVICE (RVA)							
Frequency Band	Rights of use required	Type of channel Exploration Mode	No of channels (1)	Scope of use	Allocation procedure			
255 - 283.5 kHz	NO	(2)	(3)	g	full accessibility			
283.5 - 315 kHz	NO	(2)	(3)	g	full accessibility			
315 - 325 kHz	NO	(2)	(3)	g	full accessibility			
325 - 405 kHz	NO	(2)	(3)	g	full accessibility			
415 - 435 kHz GE-85	NO	1 kHz	(3)	g	full accessibility			
74.8 - 75.2 MHz	NO	(2)	1	g	full accessibility			
108 - 117.975 MHz	NO	(2)	(3)	g	full accessibility			
328.6 - 335.4 MHz	NO	(2)	(3)	g	full accessibility			
960 - 1350 MHz	NO	(2)	(3)	g	full accessibility			
2700 - 2900 MHz	NO	(2)	(3)	g	full accessibility			
2900 – 3100 MHz	NO	(2)	(3)	g	full accessibility			
4200 - 4400 MHz	NO	(2)	(3)	g	full accessibility			
5000 - 5150 MHz	NO	(2)	(3)	g	full accessibility			
5150 - 5250 MHz	NO	(2)	(3)	g	full accessibility			
9000 - 9200 MHz	NO	(2)	(3)	g	full accessibility			
9300 - 9500 MHz	NO	(2)	(3)	g	full accessibility			
15.4 – 15.7 GHz	NO	(2)	(3)	g	full accessibility			

 ⁽¹⁾ Shared Use channels.
⁽²⁾ Not applicable.
⁽³⁾ Band shared with other users.

MARITIME RADIONAVIGATION SERVICE (RVM)							
Frequency Band	Rights of use required	Type of channel Exploration Mode	No of channels (1)	Scope of use	Allocation procedure		
283.5 - 315 kHz	NO	0.5 kHz	(2)	g	full accessibility		
2900 - 3100 MHz	NO	(3)	(2)	g	full accessibility		
5470 - 5600 MHz	NO	(3)	(2)	g	full accessibility		
5600 - 5650 MHz	NO	(3)	(2)	g	full accessibility		
9200 - 9300 MHz	NO	(3)	(2)	g	full accessibility		
9300 - 9500 MHz	NO	(3)	(2)	g	full accessibility		

RADIOLOCATION SERVICE (SV)							
Frequency Band	Rights of use required	Type of channel Exploration Mode	No of channels	Scope of use	Allocation procedure		
2700 - 2900 MHz	NO	(3)	(2)	g	full accessibility		
2900 - 3100 MHz	NO	(3)	(2)	g	full accessibility		
5725 - 5830 MHz	NO	(3)	(2)	g	full accessibility		
5830 - 5850 MHz	NO	(3)	(2)	g	full accessibility		
9200 - 9300 MHz	NO	(3)	(2)	g	full accessibility		
9300 - 9500 MHz	NO	(3)	(2)	g	full accessibility		
59 - 64 GHz	NO	(3)	(2)	g	full accessibility		

METEOROLOGICAL AID SERVICE							
Frequency Band Rights of use required Exploration Mode No of channels (1) Scope of use procedure							
5600 - 5650 MHz	NO	(2)	(3)	g	full accessibility		

PERSONAL RADIO SERVICE - CITIZEN BAND (CB)							
Frequency Band Rights of use required Type of channel Exploration No of channels Scope of use Allocation Mode Mode Mode No of channels Scope Allocation							
26965 – 27405 kHz	NO	10 kHz simplex	40	n	full accessibility		

AMATEUR SERVICE (AM)							
Frequency Band	Rights of use required	Type of channel Exploration Mode	Type of use	Scope of use	Allocation procedure		
(4)	NO	(4)		g	(4)		
135.7 – 137.8 kHz	NO	(2)		g	Category A		
7100 - 7200 kHz	NO	(2)		g	Category A		
50 – 50.5 MHz	NO	(2)		g	Category A		

AMATEUR-SATELLITE SERVICE (AMS)						
Frequency Band Rights of use required Type of channel Exploration Type of use (1) Scope of use Allocation procedure						
(4)	NO	(4)		g	(4)	

ICP-ANACOM

 ⁽¹⁾ Shared Use channels.
⁽²⁾ Not applicable.

 ⁽³⁾ Band shared with other users.
⁽⁴⁾ Frequency bands and transmission classes assigned in accordance with the terms of Administrative Rule no. 322/95 of 17 April until the publication of new legislation.

FIXED SATELLITE SERVICE (SFS)							
Frequency Band	Rights of use required	Type of channel	No of channels (1)	Scope of use	Allocation procedure		
3800 – 4200 MHz Downlink	NO	(2)	(3)	g	full accessibility		
5725 – 5830 MHz Uplink	NO	(2)	(3)	g	full accessibility		
5830 – 5850 MHz Uplink	NO	(2)	(3)	g	full accessibility		
5850 – 5925 MHz Uplink	NO	(2)	(3)	g	full accessibility		
5925 – 6425 MHz Uplink	NO	(2)	(3)	g	full accessibility		
7300 – 7450 MHz Downlink	NO	(2)	(3)	g	full accessibility		
7450 – 7550 MHz Downlink	NO	(2)	(3)	g	full accessibility		
8025 – 8175 MHz Uplink	NO	(2)	(3)	g	full accessibility		
8175 – 8215 MHz Uplink	NO	(2)	(3)	g	full accessibility		
8215 - 8400 MHz Uplink	NO	(2)	(3)	g	full accessibility		
10.7 – 10.95 GHz ⁽⁴⁾ Downlink	NO	(2)	(3)	g	full accessibility		
10.95 – 11.2 GHz Downlink	NO	(2)	(3)	g	full accessibility		
11.2 – 11.45 GHz ⁽⁴⁾ Downlink	NO	(2)	(3)	g	full accessibility		
11.45 – 11.7 GHz Downlink	NO	(2)	(3)	g	full accessibility		
12.5 – 12.75 GHz Downlink	NO	(2)	(3)	g	full accessibility		
12.75 - 13.25 GHz ⁽⁴⁾ Uplink	NO	(2)	(3)	g	full accessibility		
14 - 14.5 GHz Uplink	NO	(2)	(3)	g	full accessibility		
17.3 – 18.1 GHz ⁽⁵⁾ Uplink	NO	(2)	(3)	g	Full accessibility		
17.3 - 17.7 GHz ⁽⁶⁾ Downlink	NO	(2)	(3)	g	Full accessibility		
19.7 - 20.2 GHz ⁽⁶⁾ Downlink	NO	(2)	(3)	g	full accessibility		
27.5 - 27.82 GHz ⁽⁶⁾ Uplink	NO	(2)	(3)	g	full accessibility		
28.45 - 28.94 GHz ⁽⁶⁾ Uplink	NO	(2)	(3)	g	full accessibility		
29.46 - 30.0 GHz ⁽⁶⁾ Uplink	NO	(2)	(3)	g	full accessibility		

⁽¹⁾ Shared Use channels.
⁽²⁾ Not applicable.
⁽³⁾ Band shared with other users.
⁽⁴⁾ Appendix 30B.
⁽⁵⁾ Appendix 30A.
⁽⁶⁾ upendix 30A.

⁽⁶⁾ HDFSS.

ICP-ANACOM Autoridade Nacional de Comunicações

SPACE OPERATIONS SERVICE (OE)							
Frequency Band	Rights of use required	Type of channel	No of channels (1)	Scope of use	Allocation procedure		
2025-2110 MHz Uplink	NO	(2)	(3)	g	full accessibility		
2200-2290 MHz Downlink	NO	(2)	(3)	g	full accessibility		

EARTH EXPLORATION SERVICE - SATELLITE (EXP-S)							
Frequency BandRights of use requiredType of channelNo of channels (1)Scope of useAllocation procedure							
8025-8400 MHz Downlink	NO	(2)	(3)	g	full accessibility		

⁽¹⁾ Shared Use channels.

⁽¹⁾ Shared Use channels.