

B. Frequency bands reserved and to be made available in 2006, for the operation of electronic communications networks and services

B.1 publicly available.

The terms and abbreviations used mean the following:

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

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

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

Scope of use:

n - national scope: use of a channel/frequency at the national territory

g - geographical scope: use of a channel/frequency on a given, well determined area, by radiocommunication stations such as fixed stations, broadcasting stations and Earth stations

Allocation procedure (full accessibility or selection method by competition or comparison)

**PUBLICLY AVAILABLE ELECTRONIC COMMUNICATIONS NETWORKS AND SERVICES
- Reserved Frequencies -**

FIXED SERVICE - POINT-to-POINT LINKS				
Frequency Band	Required rights of use	Type of Shared Use	Scope of Use	Allocation procedure
406.1-410 MHz	NO	(1) (2)	g	full accessibility
410-430 MHz	NO	(1)(3)	g	full accessibility
1350 - 1375 MHz 1492 - 1517 MHz CEPT ERC/REC 13-01 A	NO	(1)	g	full accessibility
1375 - 1400 MHz 1427 - 1452 MHz CEPT ERC/REC 13-01 B	NO	(1)	g	full accessibility
2025 - 2110 MHz 2200 - 2290 MHz CEPT ERC/REC 13-01 C	NO	(1)	g	full accessibility
4 GHz (3800 - 4200 MHz) CEPT ERC/REC 12-08 B1	NO	(1)	g	full accessibility
6 GHz (5925 - 6425 MHz) CEPT ERC/REC 14-01 A1	NO	(1)	g	full accessibility
6 GHz (6425 - 7110 MHz) CEPT ERC/REC14-02 A1	NO	(1)	g	full accessibility
7 GHz (7110 - 7425 MHz) Rec. UIT-R 385	NO	(1)	g	full accessibility
7 GHz (7125-7425 MHz) CEPT ECC/REC 02-06 A1	NO	(1)	g	full accessibility
7 GHz (7425 - 7750 MHz) Rec. UIT-R 385 A4	NO	(1)	g	full accessibility
7 GHz (7425-7725 MHz) CEPT ECC/REC 02-06 A1	NO	(1)	g	full accessibility
8 GHz (7700 - 8300 MHz) Rec. UIT-R 386 A1	NO	(1)	g	full accessibility
8 GHz (8200 - 8500 MHz) Rec. UIT-R 386	NO	(1)	g	full accessibility
11 GHz (10.7 - 11.7 GHz) ERC/REC 12-03 Rec3	NO	(1)	g	full accessibility
13 GHz (12.5 - 13.25 GHz) Rec. UIT-R 497	NO	(1)	g	full accessibility
15 GHz (14.5 - 15.35 GHz) ERC/REC 12-07	NO	(1)	g	full accessibility
18 GHz (17.7 - 19.7 GHz) ERC/REC 12-03 A	NO	(1)	g	full accessibility
23 GHz (22 - 23.6 GHz) ERC/REC 13-02 A	NO	(1)	g	full accessibility
32 GHz 31.8 - 33.4 GHz ERC/REC 01-02	NO	(1)	g	full accessibility
38 GHz 37 - 39.5 GHz CEPT Rec T/R 12-01	NO	(1)	g	full accessibility
58 GHz 57 - 59 GHz CEPT ERC/REC 12-09	NO	(1)	g	full accessibility

(1) Band shared with other users.

(2) Band with specific planning at 12.5 kHz and 25 kHz (simplex).

(3) Band with specific planning at 12.5 kHz e 25 kHz (duplex) and shared with the land mobile service.

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FIXED SERVICE - POINT-to-POINT LINKS				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
1880-1900 MHz	NO	10 ⁽¹⁾	g	Full accessibility
40.5-43.5 GHz ERC/DEC 99(15)	YES		g	To be defined

FIXED SERVICE - POINT-MULTIPOINT LINKS Fixed Wireless Access (FWA)				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
3400-3600 MHz CEPT/ERC/REC 14-03	YES	(2)	(2)	(2)
3600-3800 MHz CEPT ERC/REC 12-08 Annex B	YES	(2)	(2)	(2)
24.5-26.5 GHz CEPT ERC/REC 13-02 Annex B	YES	(2)	(2)	(2)
27.5-29.5 GHz CEPT ERC/REC 13-02 Annex C	YES	(2)	(2)	(2)

TERRESTRIAL DIGITAL AUDIO BROADCASTING Terrestrial Digital Audio Broadcasting (T-DAB)				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
219 - 230 MHz	YES	5	g	To be defined

⁽¹⁾ Dynamic band management.

⁽²⁾ Depending on decisions deriving from the application of Administrative Rule no. 1062/2004 of 25 August.

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TERRESTRIAL DIGITAL TELEVISION BROADCASTING SERVICE Terrestrial Digital Video Broadcasting (DVB-T)					
Frequency Band	Required rights of use	No. of Shared Use channels		Scope of Use	Allocation procedure
		Shared	Exclusive		
Band IV 470 - 582 MHz	YES	(1)	(1)	(1)	(1)
Band V 582 - 862 MHz	YES	(1)	(1)		

Terrestrial Trunked Radio (TETRA)				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
410 - 430 MHz	YES	20	g	To be defined

LAND MOBILE SERVICE - GSM extension bands				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
880 - 890 MHz 925 - 935 MHz	YES	50	n	(3)

LAND MOBILE SERVICE - GSM 1800				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
1710 - 1785 MHz 1805 - 1880 MHz	YES	150	n	(3)

(1) The process to define the implementation model of Digital Television in Portugal is undergoing.

(3) Channels reserved for use by service operators already licensed by ICP-ANACOM for the publicly available land mobile service, in case of proven need.

**PUBLICLY AVAILABLE ELECTRONIC COMMUNICATIONS NETWORKS AND SERVICES
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FIXED SATELLITE SERVICE (SFS)				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
3800 - 4200 MHz Downlink	NO	(1)(2)	g	Full accessibility
5725 - 5830 MHz Uplink	NO	(1)(2)	g	Full accessibility
5830 - 5850 MHz Uplink	NO	(1)(2)	g	Full accessibility
5850 - 5925 MHz Uplink	NO	(1)(2)	g	Full accessibility
5925 - 6425 MHz Uplink	NO	(1)(2)	g	Full accessibility
10.7 - 10.95 GHz ⁽³⁾ Downlink	NO	(1)(2)	g	Full accessibility
10.95 - 11.2 GHz Downlink	NO	(1)(2)	g	Full accessibility
11.2 - 11.45 GHz ⁽³⁾ Downlink	NO	(1)(2)	g	Full accessibility
11.45 - 11.7 GHz Downlink	NO	(1)(2)	g	Full accessibility
12.5 - 12.75 GHz Downlink	NO	(1)(2)	g	Full accessibility
12.75 - 13.25 GHz ⁽³⁾ Uplink	NO	(1)(2)	g	Full accessibility
14 - 14.5 GHz Uplink	NO	(1)(2)	g	Full accessibility
17.3 - 18.1 GHz ⁽⁴⁾ Uplink	NO	(1)(2)	g	Full accessibility
17.3 - 17.7 GHz ⁽⁵⁾ Downlink	NO	(1)(2)	g	Full accessibility
19.7 - 20.2 GHz ⁽⁵⁾ Downlink	NO	(1)(2)	g	Full accessibility
27.5 - 27.82 GHz ⁽⁵⁾ Uplink	NO	(1)(2)	g	Full accessibility
28.45 - 28.94 GHz ⁽⁵⁾ Uplink	NO	(1)(2)	g	Full accessibility
29.46 - 30.0 GHz ⁽⁵⁾ Uplink	NO	(1)(2)	g	Full accessibility

⁽¹⁾ Band shared with other users.

⁽²⁾ Dynamic frequency management according to each application type.

⁽³⁾ Appendix 30B.

⁽⁴⁾ Appendix 30A.

⁽⁵⁾ HDFSS.

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BROADCASTING-SATELLITE SERVICE				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
11.7 - 12.5 GHz Downlink	NO	(1)	n	full accessibility

MOBILE-SATELLITE SERVICE (SMS)				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
137 - 138 MHz Downlink	NO	(2)	n	full accessibility
148 - 150.05 MHz Uplink	NO	(2)	n	full accessibility
1525 - 1545 MHz Downlink	NO	(2)	n	full accessibility
1626.5 - 1646.5 MHz Uplink	NO	(2)	n	full accessibility
10.7 - 11.7 GHz ⁽³⁾ Downlink	NO	(2)	n	full accessibility
12.5 - 12.75 GHz ⁽³⁾ Downlink	NO	(2)	n	full accessibility
14.0 - 14.5 GHz ⁽⁴⁾ Uplink	NO	(2)	n	full accessibility

SATELLITE PERSONAL COMMUNICATIONS SERVICES Satellite Personal Communications Services (S-PCS)				
Frequency Band	Required rights of use	No. of Shared Use channels	Scope of Use	Allocation procedure
1610 - 1626.5 MHz Uplink/Downlink ⁽⁵⁾	NO	(2)	n	full accessibility
1980 - 2010 MHz Uplink	NO	(2)	n	full accessibility
2170 - 2200 MHz Downlink	NO	(2)	n	full accessibility
2483.5 - 2500 MHz Downlink	NO	(2)	n	full accessibility

⁽¹⁾ Band exclusive for this service.

⁽²⁾ Band shared with other users.

⁽³⁾ EUTELTRACS.

⁽⁴⁾ EUTELTRACS: 14-14.25 GHz.

⁽⁵⁾ Uplink in CDMA and TDMA mode; Downlink in TDMA mode.