

14 October 2025

Draft tender documents

Annex I

List and designation of frequency blocks

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1 Frequency blocks in the 800 MHz range (FDD)

Category and frequency band	Designation	Bandwidth	Frequency range (UL/DL) ¹	Regulations on use
800 MHz (paired)	A1	2x 5 MHz	832.0 - 837.0 MHz / 791.0 - 796.0 MHz	Section 2.4 Main document
	A2	2x 5 MHz	837.0 - 842.0 MHz / 796.0 - 801.0 MHz	
	A3	2x 5 MHz	842.0 - 847.0 MHz / 801.0 - 806.0 MHz	
	A4	2x 5 MHz	847.0 - 852.0 MHz / 806.0 - 811.0 MHz	
	A5	2x 5 MHz	852.0 - 857.0 MHz / 811.0 - 816.0 MHz	
	A6	2x 5 MHz	857.0 - 862.0 MHz / 816.0 - 821.0 MHz	

Notes:

The specific bandwidths and band limits of the assigned blocks can be precisely determined only after the auction has taken place. In view of essential guard bands between the future licensees and other services which border on these frequency bands, blocks may be slightly smaller than indicated in this table. It is therefore expressly stated that slight deviations of a few 100 kHz may occur.

¹ Uplink/downlink

2 Frequency blocks in the 900 MHz range (FDD)

Category and frequency band	Designation	Bandwidth	Channel number (ARFCN)	Frequency range (UL/DL)	Regulations on use	Remarks	Number of preferential frequencies for Switzerland
900 MHz (paired)	B1	2x 5 MHz	975 - 999	880.1 - 885.1 MHz / 925.1 - 930.1 MHz	Section 2.5 Main document	Protection of GSM-R. The highest GSM channel is the guard channel for GSM.	F-12, F/D-8, D-13, D/A-8, A-13, A/L-8, Ita-0
	B2	2x 5 MHz	1000 - 1024 (0)	885.1 - 890.1 MHz / 930.1 - 935.1 MHz			F-13, F/D-8, D-10, D/A-8, A-12, A/L-8, Ita-0
	B3	2x 5 MHz	1 - 25	890.1 - 895.1 MHz / 935.1 - 940.1 MHz			F-10, F/D-10, D-24, D/A-12, A-12, A/L-12, Ita-18
	B4	2x 5 MHz	26 - 50	895.1 - 900.1 MHz / 940.1 - 945.1 MHz			F-8, F/D-0, D-0, D/A-12, A-24, A/L-12, Ita-2
	B5	2x 5 MHz	51 - 75	900.1 - 905.1 MHz / 945.1 - 950.1 MHz			F-24, F/D-9, D-0, D/A-0, A-0, A/L-0, Ita-12
	B6	2x 5 MHz	76 - 100	905.1 - 910.1 MHz / 950.1 - 955.1 MHz			F-18, F/D-18, D-12, D/A-0, A-0, A/L-0, Ita-21
	B7	2x 4.8 MHz	101 - 124	910.1 - 914.9 MHz / 955.1 - 959.9 MHz	UMTS signal may slightly overlap assigned bandwidth See Section 2.5 Main document	Protection of DME	F-0, F/D-2, D-24, D/A-16, A-24, A/L-16, Ita-6

Notes:

The specific bandwidths and band limits of the assigned blocks can be precisely determined only after the auction has taken place. In view of essential guard bands between the future licensees and other services which border on these frequency bands, blocks may be slightly smaller than indicated in the table below. It is therefore expressly stated that slight deviations of a few 100 kHz may occur.

The bilateral and multilateral agreements concerning the use of GSM at the national borders are still valid. The regulations for frequency use and coordination at the national borders and preferential frequency apportionments for GSM are therefore still listed.

GSM guard channels between adjacent frequency blocks are dispensed with.

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3 Frequency blocks in the 1800 MHz range (FDD)

Category and frequency band	Designation	Bandwidth	Channel number (ARFCN)	Frequency range (UL/DL)	Regulations on use	Remarks	Number of preferential frequencies for Switzerland
1800 MHz (paired)	C1	2x 5 MHz	512 - 536	1710.1 - 1715.1 MHz / 1805.1 - 1810.1 MHz	Section 2.5 Main document	The highest GSM channel is the guard channel for GSM.	F-0, F/D-0, D-13, D/A-0, A-0, A/L-0, Ita-13
	C2	2x 5 MHz	537 - 561	1715.1 - 1720.1 MHz / 1810.1 - 1815.1 MHz			F-11, F/D-4, D-5, D/A-4, A-11, A/L-4, Ita-4
	C3	2x 5 MHz	562 - 586	1720.1 - 1725.1 MHz / 1815.1 - 1820.1 MHz			F-24, F/D-24, D-24, D/A-24, A-24, A/L-24, Ita-24
	C4	2x 5 MHz	587 - 611	1725.1 - 1730.1 MHz / 1820.1 - 1825.1 MHz			F-14, F/D-7, D-14, D/A-7, A-7, A/L-7, Ita-14
	C5	2x 5 MHz	612 - 636	1730.1 - 1735.1 MHz / 1825.1 - 1830.1 MHz			F-11, F/D-5, D-5, D/A-5, A-18, A/L-5, Ita-5
	C6	2x 5 MHz	637 - 661	1735.1 - 1740.1 MHz / 1830.1 - 1835.1 MHz			F-24, F/D-24, D-24, D/A-24, A-24, A/L-24, Ita-0
	C7	2x 5 MHz	662 - 686	1740.1 - 1745.1 MHz / 1835.1 - 1840.1 MHz			F-0, F/D-0, D-7, D/A-0, A-0, A/L-0, Ita-24
	C8	2x 5 MHz	687 - 711	1745.1 - 1750.1 MHz / 1840.1 - 1845.1 MHz			F-11, F/D-0, D-0, D/A-0, A-11, A/L-0, Ita-14

Category and frequency band	Designation	Bandwidth	Channel number (ARFCN)	Frequency range (UL/DL)	Regulations on use	Remarks	Number of preferential frequencies for Switzerland
1800 MHz (paired)	C9	2x 5 MHz	712 - 736	1750.1 - 1755.1 MHz / 1845.1 - 1850.1 MHz			F-24, F/D-17, D-24, D/A-17, A-24, A/L-17, Ita-0
	C10	2x 5 MHz	737 - 761	1755.1 - 1760.1 MHz / 1850.1 - 1855.1 MHz			F-0, F/D-0, D-5, D/A-0, A-0, A/L-0, Ita-23
	C11	2x 5 MHz	762 - 786	1760.1 - 1765.1 MHz / 1855.1 - 1860.1 MHz			F-5, F/D-0, D-0, D/A-0, A-5, A/L-0, Ita-0
	C12	2x 5 MHz	787 - 811	1765.1 - 1770.1 MHz / 1860.1 - 1865.1 MHz		The highest GSM channel is the guard channel for GSM.	F-24, F/D-18, D-24, D/A-18, A-24, A/L-18, Ita-24
	C13	2x 5 MHz	812 - 836	1770.1 - 1775.1 MHz / 1865.1 - 1870.1 MHz			F-1, F/D-0, D-13, D/A-0, A-1, A/L-0, Ita-13
	C14	2x 5 MHz	837 - 861	1775.1 - 1780.1 MHz / 1870.1 - 1875.1 MHz			F-5, F/D-0, D-0, D/A-0, A-5, A/L-0, Ita-0
	C15	2x 4.8 MHz	862 - 885	1780.1 - 1784.9 MHz / 1875.1 - 1879.9 MHz	UMTS signal may slightly overlap assigned bandwidth Section 2.5 Main document	No BCCH in the top 2 MHz to protect DECT See Section 2.5.1 Main document 'minor' restrictions	F-24, F/D-24, D-24, D/A-24, A-24, A/L-24, Ita-24

Notes:

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on these frequency bands, blocks may be slightly smaller than indicated in the table below. It is therefore expressly stated that slight deviations of a few 100 kHz may occur.

The bilateral and multilateral agreements for the use of GSM at the national borders are still valid. The regulations for frequency use and coordination at the national borders and preferential frequency apportionments for GSM are therefore still listed.

GSM guard channels between adjacent frequency blocks are dispensed with.

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4 Frequency blocks in the 2100 MHz range (FDD)

Category and frequency band	Designation	Bandwidth	Channel number (ARFCN)	Frequency range (UL/DL)	Regulations on use	Remarks
2100 MHz (paired)	D1	2x 5 MHz	10553 - 10577	1920.5 - 1925.5 MHz / 2110.5 - 2115.5 MHz	Section 2.6 Main document	Illegal operation of imported DECT devices with incorrect frequencies may interfere with base stations. See Section 2.4.2 Main document
	D2	2x 4.8 MHz	10578 - 10601	1925.5 - 1930.3 MHz / 2115.5 - 2120.3 MHz		
	D3	2x 5 MHz	10602 - 10626	1930.3 - 1935.3 MHz / 2120.3 - 2125.3 MHz		
	D4	2x 5 MHz	10627 - 10651	1935.3 - 1940.3 MHz / 2125.3 - 2130.3 MHz		
	D5	2x 4.8 MHz	10652 - 10675	1940.3 - 1945.1 MHz / 2130.3 - 2135.1 MHz		
	D6	2x 5 MHz	10676 - 10700	1945.1 - 1950.1 MHz / 2135.1 - 2140.1 MHz		
	D7	2x 5 MHz	10701 - 10725	1950.1 - 1955.1 MHz / 2140.1 - 2145.1 MHz		
	D8	2x 4.8 MHz	10726 - 10749	1955.1 - 1959.9 MHz / 2145.1 - 2149.9 MHz		
	D9	2x 5 MHz	10750 - 10774	1959.9 - 1964.9 MHz / 2149.9 - 2154.9 MHz		
	D10	2x 5 MHz	10775 - 10799	1964.9 - 1969.9 MHz / 2154.9 - 2159.9 MHz		

Category and frequency band	Designation	Bandwidth	Channel number (ARFCN)	Frequency range (UL/DL)	Regulations on use	Remarks
	D11	2x 4.8 MHz	10800 - 10823	1969.9 - 1974.7 MHz / 2159.9 - 2164.7 MHz		
	D12	2x 5 MHz	10824 - 10848	1974.7 - 1979.7 MHz / 2164.7 - 2169.7 MHz		

Notes:

The specific bandwidths and band limits of the assigned blocks can be precisely determined only after the auction has taken place. In view of essential guard bands between the future licensees and other services which border on these frequency bands, blocks may be slightly smaller than indicated in the table below. It is therefore expressly stated that slight deviations of a few 100 kHz may occur. If D2, D5, D8 or D11 are assigned alone and not contiguously, these will be widened to 5 MHz to the detriment of the largest assignment (two or more contiguous blocks) of other licensees. This means that the largest assignment of another licensee will accordingly be reduced by 0.2 or 0.4 MHz.

5 Frequency blocks in the 2600 MHz range (FDD)

Category and frequency band	Designation	Bandwidth	Frequency range (UL/DL)	Regulations on use	Remarks
2600 MHz (paired)	E1	2x 5 MHz	2500.0 - 2505.0 MHz / 2620.0 - 2625.0 MHz	Section 2.7 Main document	Local effect due to radar installations possible.
	E2	2x 5 MHz	2505.0 - 2510.0 MHz / 2625.0 - 2630.0 MHz		
	E3	2x 5 MHz	2510.0 - 2515.0 MHz / 2630.0 - 2635.0 MHz		
	E4	2x 5 MHz	2515.0 - 2520.0 MHz / 2635.0 - 2640.0 MHz		
	E5	2x 5 MHz	2520.0 - 2525.0 MHz / 2640.0 - 2645.0 MHz		
	E6	2x 5 MHz	2525.0 - 2530.0 MHz / 2645.0 - 2650.0 MHz		
	E7	2x 5 MHz	2530.0 - 2535.0 MHz / 2650.0 - 2655.0 MHz		
	E8	2x 5 MHz	2535.0 - 2540.0 MHz / 2655.0 - 2660.0 MHz		
	E9	2x 5 MHz	2540.0 - 2545.0 MHz / 2660.0 - 2665.0 MHz		
	E10	2x 5 MHz	2545.0 - 2550.0 MHz / 2665.0 - 2670.0 MHz		
	E11	2x 5 MHz	2550.0 - 2555.0 MHz / 2670.0 - 2675.0 MHz		
	E12	2x 5 MHz	2555.0 - 2560.0 MHz / 2675.0 - 2680.0 MHz		
	E13	2x 5 MHz	2560.0 - 2565.0 MHz / 2680.0 - 2685.0 MHz		
	E14	2x 5 MHz	2565.0 - 2570.0 MHz / 2685.0 - 2690.0 MHz		

Notes:

The specific bandwidths and band limits of the assigned blocks can be precisely determined only after the auction has taken place. In view of essential guard bands between the future licensees and other services which border on these frequency bands, blocks may be slightly smaller than indicated in the table below. It is therefore expressly stated that slight deviations of a few 100 kHz may occur.

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6 Frequency blocks in the 2600 MHz range (TDD/SDL)

Category and frequency band	Designation	Bandwidth	Frequency range (DL)	Regulations on use	Remarks
2600 MHz (unpaired)	F1	1x 25 MHz	2570.0 - 2595.0 MHz	The assignment is immediately adjacent to the lower-lying FDD frequency block (uplink). The usage regulations for restricted blocks apply to the bottom 5 MHz. See Section 2.7 Main document	
				The conditions for restricted blocks apply to the top 5 MHz. See Section 2.7 Main document	If coordinated, the restriction stated on the left is lifted.
	F2	1x 20 MHz	2595.0 - 2615.0 MHz	The conditions for restricted blocks apply to the bottom 5 MHz. See Section 2.7 Main document	If coordinated, the restriction stated on the left is lifted.
		1x 5 MHz	2615.0 - 2620.0 MHz	Guard Band	If frequency blocks F2 and E1 are assigned to the same licensee, this range will also be assigned to that licensee. Use is restricted due to system requirements.

Notes:

Coordinated means that the frequency blocks are assigned contiguously to one licensee or the respective licensees coordinate the use of these frequencies with each other.

Depending on the technology deployed, the frequency range can also be used in SDL mode. In the event that this frequency range is assigned to multiple licensees, joint operation of TDD and SDL is only possible with coordination between these licensees. Since possible future coordination cannot be planned prior to the definitive

frequency assignment, any subsequent sole or mixed operation of SDL is not guaranteed. This range is therefore being put out to tender primarily for TDD operation.

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