Annex II: Designation and description of frequency blocks

1 800 MHz

Frequency band	Name of the frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	
800 MHz (paired)	**A1**	2 x 5 MHz	-	832.0 - 837.0 MHz / 791.0 - 796.0 MHz	Cf. Section 2.4.1 and 2.5.1	
	A2	2 x 5 MHz	-	837.0 - 842.0 MHz / 796.0 - 801.0 MHz	dito	
	A3	2 x 5 MHz	-	842.0 - 847.0 MHz / 801.0 - 806.0 MHz	dito	
	A4	2 x 5 MHz	-	847.0 - 852.0 MHz / 806.0 - 811.0 MHz	dito	
	A5	2 x 5 MHz	-	852.0 - 857.0 MHz / 811.0 - 816.0 MHz	dito	
	A6	2 x 5 MHz	-	857.0 - 862.0 MHz / 816.0 - 821.0 MHz	dito	

Note: Depending on the definitive assignment situation, the cut-off frequencies and bandwidths of the allocation blocks may vary slightly.

2 900 MHz

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments	Number of preferential frequencies for Switzerland
900 MHz (paired)	**B1**	2 x 5 MHz	975 - 999	880.1 - 885.1 MHz / 925.1 - 930.1 MHz	Cf. Section 2.3.2 and 2.5.2	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	2 x 5 MHz	1000 - 1024 (0)	885.1 - 890.1 MHz / 930.1 - 935.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM.	F-13, F/D-8, D-10, D/A-8, A-12, A/L-8, Ita-0
	B3	2 x 5 MHz	1 - 25	890.1 - 895.1 MHz / 935.1 - 940.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM.	F-10, F/D-10, D-24, D/A-12, A-12, A/L-12, Ita-18
	B4	2 x 5 MHz	26 - 50	895.1 - 900.1 MHz / 940.1 - 945.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM.	F-8, F/D-0, D-0, D/A-12, A-24, A/L-12, Ita-2
	B5	2 x 5 MHz	51 - 75	900.1 - 905.1 MHz / 945.1 - 950.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM.	F-24, F/D-9, D-0, D/A-0, A-0, A/L-0, Ita-12
	B6	2 x 5 MHz	76 - 100	905.1 - 910.1 MHz / 950.1 - 955.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM.	F-18, F/D-18, D-12, D/A-0, A-0, A/L-0, Ita-21
	B7	2 x 4.8 MHz	101 - 124	910.1 - 914.9 MHz / 955.1 - 959.9 MHz	UMTS signal may slightly overlap assigned bandwidth, Cf. Section 2.3.2 and 2.5.2	Protection of DME	F-0, F/D-2, D-24, D/A-16, A-24, A/L-16, Ita-6

Notes:

Depending on the definitive assignment situation, the cut-off frequencies and bandwidths of the allocation blocks may vary slightly.

GSM guard channels between adjacent frequency blocks are dispensed with.

Each of the existing licensees Swisscom (Schweiz) AG, Sunrise Communications AG and Orange Network SA will, if it acquires frequencies within the framework of this award procedure, be granted a transition period concerning the previously used frequencies in the 900 MHz band beyond the date of expiry of the existing licence of 31.12.2013. This lasts a maximum of one year for Switzerland excluding the regions of Basel and Geneva and a maximum of two years for the regions of Basel and Geneva. A new licensee may make full use of the frequency blocks in the 900 MHz band awarded within the framework of this award only from 1.1.2015 and from 1.1.2016 in the regions of Basel and Geneva.

.

3 1800 MHz

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments	Number of preferential frequencies for Switzerland
1800 MHz (paired) block 1	C/D1	2 x 5 MHz	512 - 536	1710.1 - 1715.1 MHz / 1805.1 - 1810.1 MHz	Cf. Section 2.5.2	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
	C/D2	2 x 5 MHz	537 - 561	1715.1 - 1720.1 MHz / 1810.1 - 1815.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-11, F/D-4, D-5, D/A-4, A-11, A/L-4, Ita-4
	C/D3	2 x 5 MHz	562 - 586	1720.1 - 1725.1 MHz / 1815.1 - 1820.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-24, F/D-24, D-24, D/A-24, A-24, A/L-24, Ita-24
	C/D4	2 x 5 MHz	587 - 611	1725.1 - 1730.1 MHz / 1820.1 - 1825.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-14, F/D-7, D-14, D/A-7, A-7, A/L-7, Ita-14
	C/D5	2 x 5 MHz	612 - 636	1730.1 - 1735.1 MHz / 1825.1 - 1830.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-11, F/D-5, D-5, D/A-5, A-18, A/L-5, Ita-5
1800 MHz (paired) block 2	C/D6	2 x 5 MHz	637 -661	1735.1 - 1740.1 MHz / 1830.1 - 1835.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-24, F/D-24, D-24, D/A-24, A-24, A/L-24, Ita-0
	C/D7	2 x 5 MHz	662 -686	1740.1 - 1745.1 MHz / 1835.1 - 1840.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-0, F/D-0, D-7, D/A-0, A-0, A/L-0, Ita-24
	C/D8	2 x 5 MHz	687 -711	1745.1 - 1750.1 MHz / 1840.1 - 1845.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-11, F/D-0, D-0, D/A-0, A-11, A/L-0, Ita-14
	C/D9	2 x 5 MHz	712 -736	1750.1 - 1755.1 MHz / 1845.1 - 1850.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-24, F/D-17, D-24, D/A-17, A-24, A/L-17, Ita-0
	C/D10	2 x 5 MHz	737 -761	1755.1 - 1760.1 MHz / 1850.1 - 1855.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM	F-0, F/D-0, D-5, D/A-0, A-0, A/L-0, Ita-23

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments	Number of preferential frequencies for Switzerland
1800 MHz (paired) block 3	**C/D11**	2 x 5 MHz	762 -786	1760.1 - 1765.1 MHz / 1855.1 - 1860.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM.	F-5, F/D-0, D-0, D/A-0, A-5, A/L-0, Ita-0
	C/D12	2 x 5 MHz	787 -811	1765.1 - 1770.1 MHz / 1860.1 - 1865.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM. For category C channel 797-811 available from start of license until 31.12.2013	F-24, F/D-18, D-24, D/A-18, A-24, A/L-18, Ita-24. /
	C/D13	2 x 5 MHz	812-836	1770.1 - 1775.1 MHz / 1865.1 - 1870.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM. For category C channel 812-836 available from start of license until 31.12.2013	F-1, F/D-0, D-13, D/A-0, A-1, A/L-0, Ita-13.
	C/D14	2 x 5 MHz	837 - 861	1775.1 - 1780.1 MHz / 1870.1 - 1875.1 MHz	Cf. Section 2.5.2	The highest GSM channel is the guard channel for GSM. For category C channel 837-839 available from start of license until 31.12.2013	F-5, F/D-0, D-0, D/A-0, A-5, A/L-0, Ita-0
	C/D15	2 x 4.8 MHz	862 - 885	1780.1 - 1784.9 MHz / 1875.1 - 1879.9 MHz	UMTS signal may slightly overlap assigned bandwidth. Cf. Section 2.3.2	No BCCH in the top 2 MHz to protect DECT, "minor" restrictions	F-24, F/D-24, D-24, D/A-24, A-24, A/L-24, Ita-24

Notes:

Depending on the definitive assignment situation, the cut-off frequencies and bandwidths of the allocation blocks may vary slightly.

GSM guard channels between adjacent frequency blocks are dispensed with.

For the period from the award of the licence to 31.12.2013 the winner of category C will get assigned 8.6 MHz bandwidth out of blocks C/D12 to C/D14 (channels 797 – 839, 1767.1-1775.7 paired with 1862.1- 1870.7 MHz) [preferential frequencies: F-16, F/D-8, D-28, D/A-8, A-16, A/L-8, Ita-28].

From 1.1.2014 to 31.12.2028 the 15 blocks named C/D determine the concrete blocks of abstract categories C and D. For the assignment stage the winner of category C is entitled to get awarded 2 blocks out of C/D.

The allocation of the category C may therefore not contain the same frequencies for the total licence term.

Each of the existing licensees Swisscom (Schweiz) AG, Sunrise Communications AG, Orange Network SA and in&phone SA will, if it acquires frequencies within the framework of this award procedure, be granted a transition period concerning the previously used frequencies in the 1800 MHz band beyond the date of expiry of the existing licence of 31.12.2013. This lasts a maximum of one year for Switzerland excluding the regions of Basel and Geneva and a maximum of two years for the regions of Basel and Geneva.

With the exception of Category C, a new licensee may make full use of the frequency blocks in the 1800 MHz band awarded within the framework of this award only from 1.1.2015 and from 1.1.2016 in the regions of Basel and Geneva.

.

4 2100 MHz TDD (1900 MHz band)

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments
1900 MHz (unpaired)	**E/F1**	1 x 5 MHz	9501 - 9525	1900.1 - 1905.1 MHz	Transmission power max. +43dBm coordinated, cf. Section 2.3.3	Illegal operation of imported DECT devices with incorrect frequencies may cause interference. Cf. Section 2.4.2
	E/F2	1 x 5 MHz	9526 - 9550	1905.1 - 1910.1 MHz	Transmission power max. +30dBm coordinated, cf. Section 2.3.3	Illegal operation of imported DECT devices with incorrect frequencies may cause interference. Cf. Section 2.4.2
	E/F3	1 x 5 MHz	9551 - 9575	1910.1 - 1915.1 MHz	Transmission power max. +20dBm coordinated, cf. Section 2.3.3	Illegal operation of imported DECT devices with incorrect frequencies may cause interference. Cf. Section 2.4.2
	E/F4	1 x 5 MHz	9576 - 9600	1915.1 - 1920.1 MHz	Transmission power max. +20dBm coordinated, cf. Section 2.3.3	Illegal operation of imported DECT devices with incorrect frequencies may cause interference. Cf. Section 2.4.2

Notes:

For the period from the award of the licence to 31.12.2016 the winner of category E will get assigned block E/F1.

From 1.1.2017 to 31.12.2028 the 4 blocks named E/F determine the concrete blocks of abstract categories E and F. For the assignment stage the winner of category E is entitled to get awarded 1 block out of E/F.

The allocation of the category E may not contain the same frequencies during the total license term.

5 2100 MHz FDD

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments
2100 MHz (paired)	G/H1	2 x 5 MHz	10553 - 10577	1920.5 - 1925.5 MHz / 2110.5 - 2115.5 MHz		Illegal operation of imported DECT devices with incorrect frequencies may cause interference to base stations. Cf. Section 2.4.2
	G/H2	2 x 4.8 MHz	10578 - 10601	1925.5 - 1930.3 MHz / 2115.5 - 2120.3 MHz		Illegal operation of imported DECT devices with incorrect frequencies may cause interference to base stations. Cf. Section 2.4.2
	G/H3	2 x 5 MHz	10602 - 10626	1930.3 - 1935.3 MHz / 2120.3 - 2125.3 MHz		
	G/H4	2 x 5 MHz	10627 - 10651	1935.3 - 1940.3 MHz / 2125.3 - 2130.3 MHz		
	G/H5	2 x 4.8 MHz	10652 - 10675	1940.3 - 1945.1 MHz / 2130.3 - 2135.1 MHz		
	G/H6	2 x 5 MHz	10676 - 10700	1945.1 - 1950.1 MHz / 2135.1 - 2140.1 MHz		
	G/H7	2 x 5 MHz	10701 - 10725	1950.1 - 1955.1 MHz / 2140.1 - 2145.1 MHz		
	G/H8	2 x 4.8 MHz	10726 - 10749	1955.1 - 1959.9 MHz / 2145.1 - 2149.9 MHz		
	G/H9	2 x 5 MHz	10750 - 10774	1959.9 - 1964.9 MHz / 2149.9 - 2154.9 MHz		
	G/H10	2 x 5 MHz	10775 - 10799	1964.9 - 1969.9 MHz / 2154.9 - 2159.9 MHz		
	G/H11	2 x 4.8 MHz	10800 - 10823	1969.9 - 1974.7 MHz / 2159.9 - 2164.7 MHz		
	G/H12	2 x 5 MHz	10824 - 10848	1974.7 - 1979.7 MHz / 2164.7 - 2169.7 MHz		

Notes:

For the period from the award of the licence to 31.12.2016 the winners of category G blocks will bid for blocks G/H10, G/H11 and G/H12 in the assignment stage.

From 1.1.2017 to 31.12.2028 the 12 blocks named G/H determine the concrete blocks of abstract categories G and H.

The allocation of the category G may not contain the same frequencies during the total license term.

Depending on the definitive assignment situation, the cut-off frequencies and bandwidths of the allocation blocks may vary slightly. If G/H2, G/H5, G/H8 or G/H11 are allocated alone and not contiguous, these will be widened to 5 MHz to the detriment of the largest allocation (2 or more contiguous blocks) of other operators. This means that the largest allocation of another operator will accordingly be reduced by 0.2 or 0.4 MHz.

Coordinated means that the frequency blocks are allocated contiguously to one operator or the respective operators coordinate the use of these.

6 2600 MHz TDD

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments
2600 MHz (unpaired)	**J1**	1 x 15 MHz	-	2570.0 - 2585.0 MHz	Allocation of the adjacent frequency block and adjacent FDD Uplink. For the lowest 5 MHz max. transmission power +25dBm imperative. Cf. Section 2.3.4	
	J2	1 x 15 MHz	-	2585.0 - 2600.0 MHz	Allocation of the adjacent frequency blocks. For the lowest 5 MHz max. transmission power +25dBm uncoordinated. Cf. Section 2.3.4	Restriction lifted if coordinated.
	J3	1 x 15 MHz	-	2600.0 - 2615.0 MHz	Allocation of the adjacent frequency block. For the lowest 5 MHz max. transmission power +25dBm uncoordinated. Cf. Section 2.3.4	Restriction lifted if coordinated.
		1 x 5 MHz	-	2615.0 - 2620.0 MHz	Guard band between frequency blocks J3 and I1 Cf. Section 2.3.4	If frequency blocks J3 and I1 are allocated to the same operator, this range will also be allocated to this operator. Utilisation is restricted due to system requirements.

7 2600 MHz FDD

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments
2600 MHz (paired)	I1	2 x 5 MHz	-	2500.0 - 2505.0 MHz / 2620.0 - 2625.0 MHz		
	I2	2 x 5 MHz	-	2505.0 - 2510.0 MHz / 2625.0 - 2630.0 MHz		
	I3	2 x 5 MHz	-	2510.0 - 2515.0 MHz / 2630.0 - 2635.0 MHz		
	I4	2 x 5 MHz	-	2515.0 - 2520.0 MHz / 2635.0 - 2640.0 MHz		
	I5	2 x 5 MHz	-	2520.0 - 2525.0 MHz / 2640.0 - 2645.0 MHz		
	I6	2 x 5 MHz	-	2525.0 - 2530.0 MHz / 2645.0 - 2650.0 MHz		
	I7	2 x 5 MHz	-	2530.0 - 2535.0 MH / 2650.0 - 2655.0 MHz		
	I8	2 x 5 MHz	-	2535.0 - 2540.0 MHz / 2655.0 - 2660.0 MHz		
	I9	2 x 5 MHz	-	2540.0 - 2545.0 MHz / 2660.0 - 2665.0 MHz		
	I10	2 x 5 MHz	-	2545.0 - 2550.0 MHz / 2665.0 - 2670.0 MHz		
	I11	2 x 5 MHz	-	2550.0 - 2555.0 MHz / 2670.0 - 2675.0 MHz		
	I12	2 x 5 MHz	-	2555.0 - 2560.0 MHz / 2675.0 - 2680.0 MHz		
	I13	2 x 5 MHz	-	2560.0 - 2565.0 MHz / 2680.0 - 2685.0 MHz	Cf. Section 2.4.3	Local effect due to radar installations possible.
	I14	2 x 5 MHz	-	2565.0 - 2570.0 MHz / 2685.0 - 2690.0 MHz	Cf. Section 2.4.3	Local effect due to radar installations possible.

Notes:

Depending on the definitive assignment situation, the cut-off frequencies and bandwidths of the allocation blocks may vary slightly.

Coordinated means that the frequency blocks are allocated contiguously to one operator or the respective operators coordinate the use of these frequencies with each other.

8 2000 MHz (Frequency block for separate award)

Frequency band	Name of frequency block	Bandwidth	Channel number	Frequency from … to ... (uplink / downlink)	Restrictions / effects on utilisation	Comments
2000 MHz (unpaired) Not in CCA	**K1**	1 x 14.2 MHz	10053 - 10123	2010.5 - 2024.7 MHz	Until 31.12.2013 max. transmission power +23dBm, Cf. Section 2.3.3	Band for separate individual round, outside the CCA. After 01.01.2014 no further restriction within the BEM