



UNOFFICIAL TRANSLATION

4.9.2009

TECHNICAL LICENSE CONDITIONS FOR 2570 - 2620 MHZ

1. License holder can possess and operate base stations that belong to an electronic communications system using time division duplex (TDD) and operate in frequency band 2570 - 2620 MHz within the license area.
2. The frequency band 2570-2620 MHz is to be used for transmitting and receiving for base stations and terminal stations.
3. The maximum radiated power for mobile terminals is 31 dBm/5 MHz TRP (total radiated power) and for terminal stations at fixed location 35 dBm/5 MHz EIRP (Equivalent isotropically radiated power).
4. Within the spectrum block 2570-2620 MHz, the maximum radiated power from base stations in a sector is 61 dBm/5 MHz EIRP.
5. Within the spectrum block 2500-2570 MHz, the maximum radiated power from base station is -45 dBm/MHz EIRP and within the spectrum block 2620-2690 MHz +4 dBm/MHz EIRP.
6. The license holder may leave frequency band 2570-2575 MHz unused. Alternatively, the license holder may use the 5 MHz block of restricted use as long as the in-band maximum radiated power from base station in a sector is 25 dBm/5 MHz.
7. The license holder may deviate from the technical specifications in item 6 above subject to the precondition that other affected license holders approve such deviation.
8. The restrictions for the use of spectrum in certain geographical areas

There are usage restrictions in the following geographical areas. The restrictions apply for spectrum band 2570-2585 MHz that has been reserved for research, development and teaching purposes:

- Area A: Rectangular with corner points at 24E3636 / 60N1658, 24E5226 / 60N1658, 24E5226 / 60N0940 and 24E3636 / 60N0940. Restrictions apply in the following communities in whole or in part: Espoo, Kauniainen, Helsinki and Vantaa
- Area B: Circle with center point at 23E5157 / 61N2603 and with 4 km radius. Restrictions apply in the following communities in whole or in part: Lempäälä, Kangasala and Tampere
- Area D: Triangular with corner points at 25E2151 / 65N0607, 25E3900 / 65N0413 and 25E3124 / 64N5838. Restrictions apply in the following communities in whole or in part: Haukipudas, Kiiminki and Oulu
- Area E: Circle with center point at 23E0651 / 60N2253 and with 4 km radius. Restrictions apply in part of the Salo community.
- Area G: Rectangular with corner points at 25E4134 / 62N1355, 25E4549 / 62N1532, 25E4734 / 62N1437 and 25E4325 / 62N1254. Restrictions apply in part of the Jyväskylä community.

The field strength of a base station referred to in this radio license shall not exceed 44 dB μ V/m / 5 MHz at the border of the restriction area at an altitude of 2 meters.

9. At the border areas licensees must comply with coordination agreements that have been agreed with neighboring countries' authorities.

10. The license holder must maintain a database of technical information concerning the base stations (incl. geographical coordinates, transmitter power, antenna cable attenuation, antenna gain (dBi), antenna height, direction of maximum radiation and the used frequency). FICORA should have access to this database.

Further information

1. A 5 MHz block for restricted usage is needed to avoid harmful interference whenever a radio system using unrestricted Time Division Duplex (TDD) and a radio system using Frequency Division Duplex (FDD) in the uplink spectrum band or two systems using unsynchronized Time Division Duplex (TDD) operate in adjoining frequency bands. There is an increased risk for interference within the spectrum block 2570-2575 MHz, see item 6 above.

2. The license-exempted use of UWB transmitters in the 2200 - 8000 MHz frequency band may increase interference levels in the 2500-2690 MHz frequency band. Detailed information on UWB transmitter power densities is available in the Commission decision 2009/343/EC.

3. Technical license conditions are based on parameters used in CEPT Report 19. These parameters have been optimized for the most likely use of this frequency band. These technical license conditions may not prevent harmful interference in every situation.

4. The base stations of other radio networks operating within the 2500-2690 MHz frequency band may emit outside their own frequency block maximum of -45 dBm/MHz EIRP in the 2500-2615 MHz frequency band and maximum of +4dBm/MHz EIRP in the 2615-2690 MHz frequency band.