

## Government Decree

### amending the Government Decree on Radio Spectrum Usage and Frequency Allocation Plan

In accordance with a decision of the Government, section 9, subsection 3 of the Government Decree on Radio Spectrum Usage and Frequency Allocation Plan (1246/2014), as amended by Decree 531/2018, section 10 and the Annex, as amended by Decree 983/2019, are *amended* as follows:

#### Section 9

##### *Terrestrial systems capable of providing electronic communication services*

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The spectrum allocated for the use of terrestrial systems capable of providing electronic communication services also includes the national frequency bands of 2,500–2,690 MHz and the frequency bands of 3,400–3,600 MHz, 3,600–3,800 MHz and 25.1–27.5 GHz.

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#### Section 10

##### *Restrictions on the use*

The restrictions on the use regarding the frequency ranges referred to above in sections 2, 5, 6, 8 and 9 are included in the Annex. The annex also includes the restrictions on use regarding the frequency range 24.25–25.1 GHz.

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This Decree enters into force on 15 April 2020.

Helsinki, 8 April 2020

Minister of Transport and Communications Timo Harakka

Senior Ministerial Adviser Kaisa Laitinen

Restrictions on the use of frequency ranges allocated for licensed telecommunications

### **1 Geographical areas of restricted use**

In the following geographical areas A–D, the use of mobile communication networks is restricted, unless otherwise stipulated by the terms of a radio licence, as referred to in section 42 of the Act on Electronic Communications Services (917/2014):

**Area A:** A rectangle with corner points 382302, 6680593; 380519, 6671420; 374746, 6671420; 369892, 6680593 ETRS-TM35FIN (x,y). The restrictions apply to, or to parts of, the following municipalities: Espoo, Kauniainen, Helsinki and Vantaa.

**Area A1:** A rectangle with corner points 377031, 6679229; 377031, 6677150; 374593, 6677150; 374593, 6679229 ETRS-TM35FIN (x,y). The restrictions apply to, or to parts of, the following municipalities: Espoo and Kauniainen.

**Area B:** A circle with a centre point 333180, 6816930 ETRS-TM35FIN (x,y) and a radius of 2,150 metres. The restrictions apply to, or to parts of, the following municipalities: Kangasala and Tampere.

**Area C:** A circle with a centre point 328181, 6821525 ETRS-TM35FIN (x,y) and a radius of 500 metres. The restrictions apply to Tampere and to parts of the Tampere region.

**Area D:** A rectangle with corner points 438042, 7217956; 433883, 7210832; 426667, 7214039; 425803, 7218954 ETRS-TM35FIN (x,y). The restrictions apply to Tampere and to parts of the Oulu region.

**Area D1:** A rectangle with corner points 433189, 7217484; 435608, 7215259; 431830, 7212170; 429527, 7215829 ETRS-TM35FIN (x,y). The restrictions apply to Tampere and to parts of the Oulu region.

### **2 Use of second generation mobile communications networks for product development, testing and educational purposes**

Restrictions apply to the following frequencies allocated for product development, testing and educational purposes in the geographical areas defined under item 1:

**Areas A, B, and C:** frequencies 1,732.5–1,737.5 MHz/1827.5–1832.5 MHz (GSM radio channels 624–648) and frequencies 1,782.3–1,784.9 MHz/1,877.3–1,879.9 MHz (GSM radio channels 873–885).

**Area D:** frequencies 1,731.7–1,738.3 MHz/1,826.7–1,833.3 MHz (GSM radio channels 620–652) and frequencies 1,781.7–1,784.9 MHz/1,876.7–1,879.9 MHz (GSM radio channels 870–885).

### **3 Use of third generation mobile communications networks for product development, testing and educational purposes**

Restrictions apply to the following frequencies allocated for product development, testing and educational purposes in areas defined under item 1:

**Area A:** frequencies 1,937.6/2,127.6 MHz (UMTS radio channel 10638), 1,942.4/2,132.4 MHz (UMTS radio channel 10662), and 1,962.4/2,152.4 MHz (UMTS radio channel 10762).

**Area B:** frequencies 1,937.6/2,127.6 MHz (UMTS radio channel 10638), and 1,942.4/2,132.4 MHz (UMTS radio channel 10662).

**Area C:** frequencies 1,937.6/2,127.6 MHz (UMTS radio channel 10638), and 1,942.4/2,132.4 MHz (UMTS radio channel 10662).

**Area D:** frequencies 1,937.6/2,127.6 MHz (MFA radio channel 10638), 1,942.4/2,132.4 MHz (UMTS radio channel 10662), and 1,962.4/2,152.4 MHz (UMTS radio channel 10762).

#### **4 Restrictions of use in digital broadband 450 mobile communications network**

As a rule, the frequencies of 452.425–453.700 MHz and 462.425–463.700 MHz must not be used for broadband 450 mobile communications network within less than 150 km from Helsinki (24E57 and 60N10). However, within a 130–150 km radius from Helsinki, the Finnish Transport and Communications Agency can in individual cases decide to allow the use of the broadband 450 mobile network.

In Jämsä, there are individual radio networks in use whose protection restricts the use of the broadband 450 mobile network in this municipality and the neighbouring municipalities. The Finnish Transport and Communications Agency defines the restrictions based on the terms of radio licence specified in the Act on Electronic Communications Services.

In addition, frequency 452, 450 MHz is in the use of the private radio network of the Finnish Broadcasting Company Ltd whose utilisation area covers all of Finland. According to the Act on Electronic Communications Services, the Finnish Transport and Communications Agency may grant the right to use this frequency. This does not restrict the use of the 450 mobile network, however.

#### **5 Product development, testing and educational use in the frequency ranges used by terrestrial systems capable of providing electronic communication services**

Restrictions apply to the following frequencies in the frequency range 2,500–2,690 MHz allocated for product development, testing and educational purposes in the areas defined under item 1 of this Annex:

**Area A:** frequencies 2,560–2,570 MHz/2,680–2,690 MHz, and 2,570–2,585 MHz

**Area B:** frequencies 2,540–2,550 MHz/2,660–2,670 MHz, and 2,570–2,585 MHz

**Area D:** frequencies 2,520–2,530 MHz/2,640–2,650 MHz, and 2,570–2,585 MHz

Restrictions apply to the following frequencies in the frequency range 3,410–3,800 MHz allocated for product development, testing and educational purposes in areas defined under item 1 of this Annex, provided that the systems have the right to use the frequency bands specified in section 2, subsection 3, of Government Decree (532/2018) on the Auctioning of Radio Spectrum in the 3,410–3,800 MHz Spectrum:

**Area A:** frequencies 3,630–3,690 MHz

**Area A1:** frequencies 3,610–3,710 MHz

**Areas B and C:** frequencies 3,700–3,760 MHz. Within area C, the use of frequency band is only allowed indoors.

**Area D:** frequencies 3,700–3,760 MHz

**Area D1:** 3,680–3,780 MHz

Restrictions apply to the following frequencies in the frequency range 3,410–3,800 MHz allocated for product development, testing and educational purposes in areas defined under item 1 of this Annex, provided that the systems have the right to use the frequency bands specified in section 2, subsection 1, of Government Decree on the Auctioning of Radio Spectrum in the 3,410–3,800 MHz Spectrum.

**Area A:** 3,640–3,700 MHz

**Area A1:** 3,620–3,720 MHz

**Areas B and C:** 3,510–3,570 MHz. Within area C, the use of frequency band is only allowed indoors.

**Area D:** 3,510–3,570 MHz

**Area D1:** 3,490–3,590 MHz

Restrictions apply to the following frequencies in the frequency range 24.25–25.1 GHz allocated for product development, testing and educational purposes in the areas defined under item 1 of this Annex.

**Area A:** 24.7–25.1 GHz

**Area A1:** 24.3–25.1 GHz

**Areas B and C:** 24.7–25.1 GHz. Within area C, the use of frequency band is only allowed indoors.

**Area D:** 24.7–25.1 GHz

**Area D1:** 24.3–25.1 GHz

## **6 Use for frequencies allocated to licensed television broadcasting for product development, testing and educational purposes**

Restrictions on the use for licensed television broadcasting apply to the following geographical areas H and I:

**Area H:** A circle with a centre point 384549, 6671501 ETRS-TM35FIN (x,y) and a radius of 10 km. Restrictions apply to parts of the following municipalities: Espoo and Helsinki.

**Area I:** A circle with a centre point 243342, 6710332 ETRS-TM35FIN (x,y) and a radius of 9 km. Restrictions apply to parts of the following municipalities: Kaarina, Lieto, Parainen, Raisio, Rusko and Turku.

**In area H,** licensed television broadcasting is not allowed to produce a field strength exceeding 56 dB $\mu$ V/m (1% of time, 50% of locations) in channels 22, 23 and 41, as measured at 10 metres above the ground. Use for product development, testing and educational purposes is allowed for transmitters placed in area H, provided that the field strength measured at 10 metres above the ground at the limit of each area does not exceed 78 dB $\mu$ V/m (50% of time, 50% of locations) in TV channels 22, 23 and 41.

**In area I,** licensed television broadcasting is not allowed to produce a field strength exceeding 56 dB $\mu$ V/m (1% of time, 50% of locations) in channels 38 and 48, as measured at 10 metres above the ground. Use for product development, testing and educational purposes is allowed for transmitters placed in area I, provided that the field strength measured at 10 metres above the ground at the limit of each area does not exceed 78 dB $\mu$ V/m (50% of time, 50% of locations) in TV channels 38 and 48.