



Czech Telecommunication Office
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Czech Telecommunication Office (hereinafter “the Office”) under Section 108(1)(b) of the Act 127/2005 Coll., on electronic communications and on amendment to certain related acts (the Electronic Communications Act), as amended (hereinafter “the Act”), in compliance with the Act No. 500/2004 Coll., the Administrative Procedure Code, as amended, on the basis of results of public consultations under Section 130 and on the basis of the Office Council’s decision under Section 107(9)(b) and in order to implement Sections 9 and 12 of the Act, the Office hereby issues this Measure of General Nature

General Authorisation No. VO-R/16/05.2020-6
for the use of radio frequencies and for the operation of equipment jointly operated on determined radio frequencies in the 27 MHz to 450 MHz bands

Article 1
Introductory Provisions

The apparatus operating conditions^{1),2)} relating to the use of radio frequencies and to the operation of transmitting radio equipment jointly operated on determined radio frequencies in the 27 MHz to 450 MHz bands (hereinafter “the station”) by natural or legal entities, are laid down in the Act and in this General Authorisation pursuant to Section 10(1) of the Act.

Article 2
Specific Conditions

The specific conditions related to Section 10(1)(n) of the Act are as follows:

- 1) The operator may use the radio frequencies and operate the station without individual authorisation for the use of radio frequencies.
- 2) The operating conditions for data transmission stations are as follows:

Ref.	Operating frequencies	Radiated power	Bandwidth taken up for transmission	Harmonised standard (ČSN ETSI EN)
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¹⁾ Sections 73 to 75 of the Act.

²⁾ European harmonized standards referred to in Article 2 of this General Authorisation, applied under Act No. 90/2016 Coll., on conformity assessment of products when made available on the market, and Government Order No. 426/2016 Coll., on the assessment of conformity of radio equipment when made available on the market.

<i>a</i>	27.905; 27.915 MHz	1 W e.r.p.	8.5 kHz	300 113 ³⁾ 300 220 ⁴⁾
<i>b</i>	27.975; 27.985; 27.995 MHz	100 mW e.r.p.	8.5 kHz	
<i>c</i>	57.225; 57.250; 57.275; 57.300 MHz	10 mW e.r.p.	16 kHz	
<i>d</i>	87.430; 87.470 MHz	500 mW e.r.p.	14 kHz	
<i>e</i>	149.125; 149.250; 155.725; 156.150 MHz	500 mW e.r.p.	16 kHz	
<i>f</i>	448.070; 448.170 MHz	500 mW e.r.p.	14 kHz	

3) The operating conditions for analogue and digital voice transmission stations are as follows:

Ref.	Operating frequencies	Radiated power	Bandwidth taken up for transmission	Harmonised standard (ČSN ETSI EN)
<i>g</i>	34,050; 34,075; 34,150; 34,175 MHz	1 W e.r.p.	16 kHz	300 086 ⁵⁾ 300 113 ³⁾ 300 220 ⁴⁾
<i>h</i>	77,025; 77,050; 77,075; 77,100; 77,725; 78,000; 81,725; 81,750 MHz	1 W e.r.p.	16 kHz	
<i>i</i>	172,650; 172,950; 172,975 MHz	5 W e.r.p.	10 kHz	
<i>j</i>	172,725; 173,050 MHz	1 W e.r.p.	10 kHz	
<i>k</i>	442,200; 442,225; 442,250; 442,275 MHz	5 W e.r.p.	16 kHz	
<i>l</i>	448,490; 448,570; 448,610 MHz	5 W e.r.p.	14 kHz	
<i>m</i>	449,770; 449,810 MHz	1 W e.r.p.	14 kHz	

4) The operating conditions for stations transmitting differential signals of global navigation satellite systems are as follows:

Ref.	Operating frequencies	Radiated power	Channel pitch	Harmonised standard (ČSN ETSI EN)
N	442.050; 444.375 MHz	5 W e.r.p.	12.5 kHz or 20 kHz or 25 kHz	300 113 ³⁾

5) It is not permitted to operate the station with additional high-frequency power amplifiers or with converters.

6) The station may not be connected, directly or indirectly, to public communication networks, nor may it be used to provide electronic communication services.

7) Transmission of the station under conditions laid down in Paragraph 2 may not have the

³⁾ ETSI EN 300 113 – Land Mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector.

⁴⁾ ETSI EN 300 220 – Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz.

⁵⁾ ETSI EN 300 086 – Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech.

nature of permanent operation: The duty cycle (i.e. the proportion of the time within an hour during which a transmitter transmits on the carrier frequency) may not be higher than 10%, and the duration of one transmission may not be longer than 10 seconds. The station is operated as mobile or fixed and the height of the transmission antenna, which is not an integral part of the station, shall not be limited above the ground.

- 8) The station using radio frequencies under conditions laid down in Paragraph 3 may only be operated as portable station – not fixed inside a building or a vehicle. Operation of the station with suspended or fixed antennas is not permitted.
- 9) The station using radio frequencies under conditions laid down in Paragraph 4 is designated for occasional use in construction, geodesy, agriculture during seasonal works and for similar purposes. The station is used locally with reach up to 5 km. Permanent transmission is not allowed, the station may be operated only for the time necessary to conduct the works which the transmitted data is used for. The station is operated as mobile. Temporary fixed installation of the station is also allowed, while the transmitting antenna, which is not an integral part of the station, shall be placed 10m above the ground at the highest.
- 10) The operation of the station must not cause harmful interference to stations of priority radiocommunication services using radio frequencies operated based on an individual authorisation, and it is not protected from harmful interference caused by these stations. It also has no protection from undesirable influence caused by other stations, put into operation earlier, which use radio frequencies based on this General Authorisation. This possible interference is to be settled by mutual agreement of the users.
- 11) The station may be neither electrically nor mechanically modified.
- 12) If not indicated differently, the values of the radiated power and of bandwidth stated in this General Authorisation are the maximal values and must not be surpassed in any operation status of the station. But lower values can be used.

Article 3 **Final Provisions**

Any equipment is considered a station complying with the Government Order No. 426/2016 Coll., on the assessment of conformity of radio equipment when made available on the market, if the Office decided to approve or to recognize such type of radio equipment in accordance with Section 10 of the Act No. 151/2000 Coll., on Telecommunications and on Amendment to Other Acts, as amended, provided that such equipment was made available on the market before 1 April 2003.

Article 4 **Repealing Provisions**

This is to repeal General Authorisation No. VO-R/16/08.2005-28 for the use of radio frequencies and for the operation of equipment jointly operated on reserved radio frequencies in the 27 MHz to 450 MHz bands of 27 July 2005, published in Issue 11/2005 of Telecommunications Bulletin.

Article 5 **Effect**

This General Authorisation shall come into effect on 1 July 2020.

Explanatory Memorandum

To implement Section 9 and 12 of the Act, the Office issues General Authorisation No. VO- R/16/05.2020-6 for the use of radio frequencies and for the operation of equipment jointly operated on reserved frequencies in the 27 MHz to 450 MHz bands.

This General Authorisation is based on the principles set out in the Act and also on the frequency plans and harmonisation objectives of the European Communities, and it replaces the General Authorisation, which is repealed by Article 4 of this General Authorisation.

The General Authorisation is issued without effectivity limit. In case the facts underlying the General Authorisation will alter or a need to meet the commitments following the membership of the Czech Republic in international organisations, or for ensuring the state defence and security, will occur, the General Authorisation can be changed or repealed pursuant to the Act.

The conditions for operation of stations jointly operated on the determined frequencies are stated in Article 2. These conditions follow from the decision of the European Conference of Postal and Telecommunications Administrations (CEPT), from the Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC, as well as from the requirements resulting from the radio spectrum management.

The Office assessed the changes in the radio spectrum utilisation which took place since the General Authorisation No. VO-R/16/08.2005-28 was issued. The utilisation of some frequencies based on this previous General Authorisation was terminated. Part of the 440 MHz frequency band was released in the meantime for civil utilisation. Further, the Office received incentives from users to change the General Authorisation especially because of lack of vacant frequencies for these stations while supporting cultural, social and sport events. Another new need is the operation of temporary stations for broadcasting the differential signals of global navigation satellite systems. There exist administrative and economical barriers (in some cases even practically insurmountable) for accommodating these needs based on an individual authorisation for the use of radio frequencies. The joint utilisation of the determined radio frequencies based on a General Authorisation will thus lead to purposeful use of the radio frequencies (including frequencies released for civil utilisation) and will enable also effective implementation of modern technologies. Based on these facts, the Office made following changes, pursuant to Section 12 of the Act, in this General Authorisation contrary to the General Authorisation No. VO-R/16/08.2005-28:

1. In the Article 2(3), the radio frequencies 442,200; 442,225; 442,250; 442,275 MHz (Reg. *k*) were added. It was also specified, that this Paragraph pays for analogue as well as digital voice transmission, what follows from harmonized standards, stated in this Paragraph.
2. In the Article 2(3), frequencies in the bands 45 MHz, 172 MHz (with occupied bandwidth 16 kHz), and 305 MHz, where the determined time for terminating operation already passed, were deleted in the tables.
3. In the Article 2(4), frequencies for transmitting differential signals of global navigation satellite systems were added, and conditions for using these frequencies were added in Paragraph 9.
4. To keep consistence of the Article 2(7) with its Paragraph 9, the last sentence characterizing a station was added, so that the conditions for using stations pursuant to Paragraph 2 are not altered.
5. Formal changes were done in accordance with the current practice of issuing General Authorisations. The information on standards in tables in the Article 2(2-4) was moved to footnote²⁾ to unify the way of introducing the harmonized standards with

other currently issued General Authorisations. Frequencies for data transmission and frequencies for voice transmission were separated into individual tables for clearer arrangement.

Article 3 lays down the conditions for the possibility to operate equipment made available on the market before 1 April 2003.

Article 4 repeals the General Authorisation NO. VO-R/16/08.2005-28.

Article 5 sets down the effect of this General Authorisation pursuant to Section 124(2) of the Act.

Based on Section 130 of the Act and in accordance with the Rules of the CTU for consultation at the discussion site, the Office published on 8 April 2020 its draft Measure of General Nature laying down the General Authorisation No. VO-R/16/xx.2020-y for the use of radio frequencies and for the operation of equipment jointly operated on reserved frequencies in the 27 MHz to 450 MHz bands, and the call for comments at the discussion site.

Within the public consultation, the Office received no comments during the period of one month according to the Article 6(2) of the "Rules of the Czech Telecommunication Office for consultation at the discussion site". The Office received two statements and discussion contributions above the framework of comments. One contribution concerned specification, whether it is possible to use analogue as well as digital voice transmission in case of stations for voice transmission (Art. 2(3)). Second contribution requested not to allow suspended and fixed antennas, which were not allowed in the previous General Authorisation. The Office assessed this contribution, recognized its legitimacy, and returned back the measure not allowing operation of stations with suspended and fixed antennas to Article 2(8).

On behalf of the Council of the Czech
Telecommunication Office

Hana Továrková
Chair of the Council
of the Czech Telecommunication Office
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