

This is an unofficial translation. The legally binding text is the original Czech version.



Czech Telecommunication Office
with headquarters at Sokolovská 219, Prague 9
P.O. Box 02, Prague 025, Postcode 225 02

Prague, 20 December 2006

Ref.: 43 556/2006-613

On the basis of public consultation under Section 130 of the Act No. 127/2005 Coll., on electronic communications and on amendments to certain related acts (the Electronic Communications Act), as later amended (hereinafter referred to as the "Act"), Act No. 500/2004 Coll., the Administrative Code, as later amended, and on the basis of the decision of the Council of the Czech Telecommunication Office (hereinafter referred to as the "Office") under Section 107(8)(b)(2) of the Act, and in order to implement Section 9 of the Act, the Office as the appropriate state administration body under Section 108(1)(b) of the Act issues by Measure of General Nature this

General Authorisation No. VO-R/14/12.2006-38
for the use of radio frequencies and for the operation of equipment
in the 10 GHz band

Article 1

Introductory Provisions

The apparatus operating conditions^{1), 2)}, relating to the use by a natural or juristic person (hereinafter referred to as the "user") of radio frequencies and to the operation of fixed transmitting radio equipment intended for the transmission of television, radio, speech and data signals in the 10 GHz band (hereinafter referred to as the "station") – are set out in the Act and in this General Authorisation under Section 10(1) of the Act.

Article 2

Actual Conditions

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

- a) the station may be operated without individual authorisation for the use of radio frequencies;
- b) the stations are part of point-to-point type systems;
- c) the stations use the following frequencies:

Channel No.	Channel centre rated frequency [MHz]	Channel No.	Channel centre rated frequency [MHz]
0	10,308	7	10,490
1	10,322	7a	10,504
1a	10,336	8	10,518
2	10,350	8a	10,532
2a	10,364	9	10,546
3	10,378	9a	10,560
3a	10,392	10	10,574
4	10,406	–	–

¹⁾ Sections 73 to 75 of the Act.

²⁾ ČSN ETSI EN 300 751 – Fixed radio systems – point-to-point equipment and antennas; generic harmonised standard for point-to-point digital fixed radio systems and antennas covering the essential requirements under Article 3(2) of the 1999/5/EC Directive.

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- d) the stations can be operated with a maximum frequency deviation (of working frequency) of 10-4;
- e) The bandwidth taken up for transmission in high-frequency channels Nos. 1 to 10 is 28 MHz at the maximum, and in high-frequency channel No.0 it is 14 MHz at the maximum. For transmission of a signal not requiring a full width of the channel taken up for the transmission, the stations may also be operated on complementary high-frequency channels whose frequencies are derived from those of the above-mentioned channels by the following formulae:
 $F = f_n \pm 7 \text{ MHz}$ for a maximum bandwidth of 14 MHz taken up for the transmission; or
 $F = f_n \pm 3.5 \text{ MHz}$ for a maximum bandwidth of 7 MHz taken up for the transmission,
where f means the rated frequency of the centre of the complementary high-frequency channel [MHz], n being the number of the channel (1 to 10) (including channels with index a);
- f) the power supplied by the station to the antenna feeder may be 2 mW at the maximum;
- g) the power spectral density at the state boundary cannot exceed a value of $-122 \text{ dB(W/(m}^2 \cdot \text{MHz))}$;
- h) the stations may only be operated with antennas designed so that the minimum suppression of radiation at angles greater than 10° from the radiation axis is 20 dB;
- i) the stations may not be used for direct transmission of radio and television broadcasting;
- j) the stations shall be operated on shared frequencies;
- k) the operation of the station is not protected against interference from the transmitting radio stations of another radio communication service operated on the basis of an individual authorisation for using radio frequencies, or by other stations of the same service. If there is any interference, the users shall agree on a solution;
- l) the station may be neither electrically nor mechanically modified.

Article 3

Final Provisions

(1) Also considered as a station complying with the Government Order No. 426/2000 Coll., laying down the technical requirements for radio equipment and telecommunication terminal equipment, as amended, is any station for which the Office decided to approve the 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 a station was released to the market before 1 April 2003.

(2) A user of a station that was put into operation before the date this General Authorisation comes into effect and which is located at a distance of up to 60 km from the state boundary and radiates in the direction of the country's border will perform a control of the power spectral density at the country's border pursuant to Section 2(g) within 6 months from when this General Authorisation comes into effect and, if necessary, will carry out a change to the station's parameters so that the required parameters are satisfied.

Article 4

Repealing Provisions

This is to repeal General Authorisation No. VO-R/14/08.2005-26 for the use of radio frequencies and for the operation of equipment in the 10 GHz band Ref. No. 30044/2005-613 from 20 July 2005, published in Issue 11/2005 of the Telekomunikační věstník (Telecommunications Bulletin).

Article 5

Effect

This General Authorisation shall come into effect on the fifteenth day from the day it is published in the Telekomunikační věstník.

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Explanatory Memorandum

In order to implement Section 9 of the Act, the Office issues a measure of a general nature that issues General Authorisation No. VO-R/14/12.2006-38 for the use of radio frequencies and for the operation of equipment in the 10 GHz band (hereinafter referred to as the “General Authorisation”).

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

Article 2 contains the conditions of operation of fixed transmitting radio equipment serving for the transmission of television, radio, speech and data signals in the 10 GHz band. These conditions are based on Directive No. 1999/5/EC of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity, as well as on the requirements resulting from exercising radio spectrum administration.

After issuing General Authorisation No. VO-R/14/08.2005-26 the Office received requests from the Slovak Republic’s Telecommunication Office for the coordination of the 10.15–10.3 and 10.5–10.65 GHz bands. The Slovak side intends to use this band for point-multipoint connections in accordance with the recommendation of CEPT/ERC/REC 12-05 E under the condition that the power spectral density for these connections cannot exceed the value of $-122 \text{ dB(W/(m}^2 \cdot \text{MHz))}$ at the country’s border. The Czech Republic has not implemented this recommendation yet, though the implementation of this recommendation can be expected in the future, just like the implementation of the 10.5–10.6 GHz band for movement detection equipment and for security pursuant to recommendation ERC/REC 70-03.

In light of the necessity to ensure protection for connections operated under CEPT recommendations in surrounding countries, the Office implemented a change to the General Authorisation VO-R/14/08.2005-26 in the sense of section 12 of the Act by adding a new letter g in Article 2 and paragraph 2 in Article 3.

In practice the aforementioned change affects connections operated according to this General Authorisation that are situated in a distance of up to 60 km from the country’s border and are oriented so that one device radiates in the direction of the country’s border. For such connections that have already been put into operations it will be necessary to carry out a control recalculation and to make any changes to the parameters of the transmitting radio equipment so that the adherence to the maximum allowed power spectral density at the country’s border is ensured.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office’s Rules for consultation with the affected parties at the discussion site, the Office published on 13 November 2006 at the discussion site its draft of the measure of a general nature which issues the General Authorisation No. VO-R/14/XX.2006-Y for the use of radio frequencies and for the operation of equipment in the 10 GHz band, and an invitation for submitting comments at the discussion site.

The office did not receive any comments during the public consultation.

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