



Prague, 19 May 2010
Ref: 71 879/2010-613

On the basis of public consultations under section 130 of the Act 127/2005 Coll., on electronic communications and on amendments to certain related acts (the Electronic Communications Act), as later amended, and Act No 500/2004 Coll., the Administrative Code, as later amended, and on the basis of 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 and 12 of the Act, the Office as the appropriate state administration body under Section 108(1)(b) of the Act issues by a Measure of General Nature this

General Authorisation No. VO-R/23/05.2010-7
for the use of radio frequencies and for operation of fixed service devices in the bands
71–76 GHz and 81–86 GHz.

Article 1
Introductory provisions

The apparatus operating conditions^{1), 2)} relating to the use of radio frequencies and operation of digital fixed radio systems serving for the transmission of data signals in the bands 71–76 GHz and 81–86 GHz (referred to hereinafter as "station") by natural or juristic persons (referred to hereinafter as "operator") are set out by the Act, the frequency band allocation plan, the radio spectrum used plan pursuant to section 16 of the Act and this General Authorisation pursuant to section 10, paragraph 1 of the Act.

Article 2
Specific conditions

The factual conditions related to Section 10(1),(l), (n) are as follows:

- a) the stations may be operated without individual authorisation for the use of radio frequencies;
- b) the stations are a part of radio-relay (RR) links of point-to-point type;
- c) the stations may use radio frequencies in the bands 71–76 GHz and 81–86 GHz, as well as their mutual combination, by TDD or FDD systems, provided that the guard bands of 125 MHz bandwidth at the borders of the bands³⁾ shall be maintained,
- d) the station can be operated with an antenna with maximum gain 38 dBi⁴⁾;
- e) the maximum equivalent isotropically radiated power (hereinafter only e.i.r.p.) of the station antenna with gain G_i shall be limited according to following rules⁴⁾:

¹⁾ Sections 73 to 75 of the Act.

²⁾ CSN ETSI EN 301 751 – Fixed radio systems – Equipment and antennae between two points - Master harmonisation standard between two points covering the basic requirements according to article 3.2 Directive 1999/5/EC.

³⁾ ECC/REC(05)07 – Revised Dublin 2009.

⁴⁾ ETSI EN 302 217-3 – Fixed Radio Systems, Characteristics and requirements for point-to-point equipment and antennas.

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

- 1) e.i.r.p. $\leq +85$ [dBm] for $G_i \geq 55$ dBi.
- 2) e.i.r.p. $\leq +85 - (55 - G_i)$ [dBm] for $55 \text{ dBi} > G_i \geq 45 \text{ dBi}$.
- 3) e.i.r.p. $\leq +75 - 2 \cdot (45 - G_i)$ [dBm] for $45 \text{ dBi} > G_i \geq 38 \text{ dBi}$.

f) the spectral power density at the state border must not exceed the value of $-98 \text{ dB(W/(m}^2 \text{ MHz))}$;

g) RR links are operated in shared bands. Possible harmful interference the operators solve by mutual agreement provided that ensured protection from this interference has RR links that were announced earlier than other ones are regarded as source of that interference. If the operators are not able come to the agreement then shall be used the procedure in the sense of Section 100 of the Act. RR links also shall not cause harmful interference to the other radio communication services, i.e., in the band 74–76 GHz to the stations of the fixed-satellite, mobile-satellite and broadcasting-satellite services and in the band 76–86 GHz to the stations of the radio astronomy service. In case of occurrence of the harmful interference to other radiocommunication service the operator shall make measure for its prevention or perhaps to terminate operation of the station,

h) the operator shall notify the Office about the intention to put the RR link into operation, not earlier than one month before the RR link planned putting into operation and not later than on that day using prescribed form (“Evidenční list”, hereinafter referred to as the “Registration form”). The Registration form shall be dispatched to the Office in the electronic or in the written shape and should include particularly following details:

1. trade name/name of the natural person, the corporate name/the name of legal entity,
2. place of the registered office of business/natural person/legal entity, the company registration number, the date of birth of RR link operator,
3. for each location of the RR link, the name and the address of the site, its geographical co-ordinates and the altitude above the sea level,
4. height of the antenna system above the ground,
5. type of the antennas, gain of the antennas, the producer of the antennas,
6. transmitting frequency (frequencies) used in individual locations including the occupied bandwidths,
7. e.i.r.p.,
8. type and the name of producer of the station,
9. date of entry of RR link into operation.

The Registration form is the integral part of this General Authorisation and is released by the Office on its web site.

i) the technical details of the RR links originated from the Registration form listed there according to Article 2, letter h), bullets no. 3 to no. 9 are published by the Office on its web site;

j) the date of delivery of the duly filled Registration form to the Office is considered as the date of the announcement of the link pursuant to letter g);

k) in case that announced RR link was not put into the operation within one month after planned date mentioned in the Registration form the operator notifies about this fact the Office, the operator notifies the Office also about the date of termination of link operation. The technical data of such RR links the Office will remove from internet sites;

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

l) the RR link that was not put into the operation within one month after the planned date of putting into operation mentioned in the Registration form is not regarded as the announced link;

m) the stations may be neither electrically nor mechanically modified.

Article 3
Repealing Provisions

This is to repeal General Authorisation No. VO-R/10.2009-16 for the use of radio frequencies and for the operation of the fixed service devices in the bands 74–76 GHz and 84–86 GHz, published in Issue 18/2009 of Telecommunications Bulletin.

Article 4
Effect

This General Authorisation comes into effect on the fifteenth day from the date of publication in the Telecommunication Bulletin.

Explanatory Memorandum

To implement Section 9 and Section 12 of the Act No. 127/2005 Coll., the Office issues this General Authorisation for the use of radio frequencies and for operation of fixed service devices in the bands 71–76 GHz and 81–86 GHz (referred to hereinafter as “General Authorisation”). This General Authorisation is based on the principles set out in the Act No. 127/2005 Coll., and also on the frequency plans and harmonisation Objectives of the European Communities, and it replaces the General Authorisation VO-R/23/10.2009-16, which is repealed by Article 3 of this General Authorisation. In order to ensure conformity between terms of use radio frequencies in relevant band and the Part No. PV-P/23/02.2010-4 of Radio Spectrum Utilisation Plan for the frequency band 59–105 GHz, which was published in Issue 4/2010 of Telecommunications Bulletin it is reason for release of this General Authorisation. The adjacent bands of 71–74 GHz and 81–84 GHz were released for use of civil systems (Article 5, paragraph 3) by the updating of this Part of Radio Spectrum Utilisation Plan.

The specific conditions for operating of stations are stipulated in Article 2. These conditions are based on Recommendation ECC/REC/(05)/07 and on requirements resulting from execution of radio spectrum management. Article 2 stipulates technical parameters devices and its antennas in accordance with last version ETSI EN 302-217-3. Instead of definition the device parameter called “the output power” is defined the parameter “the equivalent isotropically radiated power” (e.i.r.p.). In comparison with previous version of the authorisation this condition allows to use the antennas with lower gain. This change was necessary to bring into line with Registration form.

The announcement of technical data of stations according to the Registration form is required in accordance with Section 10 (1), (l) and Section 117 of the Act for ensuring the announcement obligation of the Office. The publication of the technical details on the internet sites www.ctu.cz is necessary in order to prevent possible occurrence of harmful interference among individual RR links.

General Authorisation VO-R/23/10.2009-16 is repealed by Article 3.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office’s Rules for consultations with the affected parties, the Office published on 12 April 2010 at the discussion site the draft General Authorisation and a call for comments on the draft General Authorisation to be posted at discussion site.

The Office did not receive any comments within the public consultation in accordance with the Czech Telecommunication Office’s Rules for consultations at the discussion site.

On behalf of the Council
of the Czech Telecommunication Office

Pavel Dvořák

Chairman of the Council
of the Czech Telecommunication Office

<signed>