

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

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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 a Measure of General Nature this

**General Authorisation No. VO-R/22/02.2007-2,
for the operation of satellite system terminals for personal communication
in the 150 MHz frequency band.**

Article 1

Introductory Provisions

The apparatus operating conditions^{1), 2)} relating to the operation by a natural or juristic person of radio transmission devices that are part of satellite system terminals for personal communication in the 150 MHz frequency band (hereinafter referred to as the "terminal") are set out in the Act and in this General Authorisation under Section 10(1) of the Act³⁾.

Article 2

Specific Conditions

The specific conditions concerning Section 10(1)(n) of the Act are:

- a) the terminal can be operated without individual authorisation for the use of radio frequencies;
- b) a terminal that is authorised in those CEPT member countries that have complied with the decision of the ERC or ECC on the free movement and use of terminals^{4), 5)} is also considered to be a terminal according to this General Authorisation;
- c) the terminal cooperates with satellites as part of a fixed satellite service, land mobile satellite system or satellite radio system and is controlled by the satellite system;
- d) the terminal transmits (uplinks) in the 148.0 – 149.9 MHz frequency band and receives (downlinks) in the 137 – 138 MHz frequency band;

¹⁾ Sections 73 to 75 of the Act.

²⁾ ČSN ETSI EN 301 721 – Satellite earth stations and systems (SES) – harmonised standard covering the basic requirements of Article 3.2 of the R&TTE Directive on mobile earth stations (MES), providing low bit rate data communications (LBRDC), using satellites for low earth orbit (LEO) and working in bands lower than 1 GHz.

³⁾ This General Authorisation is based on the European Conference of Postal and Telecommunications Administrations (hereinafter referred to as the "CEPT") European Radiocommunications Committee's (hereinafter referred to as the "ERC") Decision: No. ERC/DEC/(99)06 – ERC Decision from 10 March 1999 on the harmonisation of the implementation of personal satellite communication systems working in bands under 1 GHz (S-PCS < 1 GHz).

⁴⁾ Decision No. ERC/DEC/(95)01 from 1 December 1995 on the free movement of radio devices in CEPT member countries

⁵⁾ A list of countries that have complied with this decision of the ERC and Electronic Communication Committee (hereinafter referred to as the "ECC"), and other information is available at the internet address www.ero.dk.

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- e) the maximum e.i.r.p. spectral density is 10 dBW/4 kHz;
- f) the maximum channel width is 10 kHz;
- g) the terminal cannot be operated in direct mode (DMO – Direct Mode Operation);
- h) the satellite operator specifies other technical parameters, primarily the spacing of the channels, modulation types and transmission capacity;
- i) the operation of the terminal does not have protection ensured against interference caused by radio transmission stations of other radiocommunication services operated on the basis of an individual or general authorisation for the use of radio frequencies;
- j) the terminal cannot be changed electrically or mechanically.

Article 3

Effect

This general authorisation comes into effect on 1 March 2007.

Explanatory Memorandum

To implement Section 9 of the Act, the Office issues General Authorisation No. VO-R/22/XX.2007-Y for the operation of satellite system terminals for personal communication in the 150 MHz frequency band (hereinafter referred to as the “General Authorisation”).

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.

The conditions for the operation of satellite system terminals for personal communication in the 150 MHz frequency band are given in Article 2. These conditions are based on the European Conference of Postal and Telecommunications Administration’s Decision No. ERC/DEC/(99)06 – the ERC Decision from 10 March 1999 on the harmonisation of the implementation of personal satellite communication systems working in bands under 1 GHz (S-PCS < 1 GHz), from the Directive of the European Parliament and Council No. 1999/5/EC, on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity as well as the requirements ensuing from the performance of radio spectrum administration.

The purpose of the General Authorisation is to enable the use of satellite systems for personal communication in the 150 MHz frequency band on the territory of the Czech Republic. At the current time the LEOTELCOM-1 (ORBCOMM), LEOTELCOM-2 (E-SAT) and LEOTELCOM-5 (LEO ONE) systems are operating in this band. All of these systems use the 137–138 MHz frequency bands for the satellite transmission (downlinks) and the 148.0–150.05 MHz band for terminal transmissions (uplinks) while the dynamic allocation of the frequencies is controlled by the satellite sector and the upper frequencies of the terminal transmissions is limited to the frequency 149.895 MHz in order to limit the interference of radioastronomical services. Since the terminal’s communication with the satellite occurs approx. once an hour and the transmission lasts in the order of milliseconds (duty cycle < 0.1 %) no damaging interference with the land mobile service in the 150 MHz frequency band occurs, which the Office verified by performing practical measurements.

The General Authorisation is issued without a limit on the effect. In the event of a change in the circumstances on the basis of which the General Authorisation was issued, or if it becomes necessary to comply to obligations ensuing from the Czech Republic’s membership in international organisations, or to ensure the defence and security of the country, the General Authorisation can be amended or cancelled in a manner according to the law

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office’s Rules for consultations at the discussion site, the Office published the General Authorisation draft and an invitation for comments on the General Authorisation draft on 27 December 2006.

The Office did not obtain any comments in accordance with the Czech Telecommunication Office’s Rules for consultations at the discussion site during the public consultation. Two special standpoints and opinions that were sent did not apply to the subject of the General Authorisation and were therefore not taken into consideration.

On behalf of the Council of the Czech Telecommunication Office:

Michal Frankl

Authorised Member of the Council of the
Czech Telecommunication Office