

Prague, 18 October 2005
Ref.: 37 766/2005-605

On the basis of public consultation under Section 130 of the Act No. 127/2005 Coll., on electronic communications and on amendment to certain related acts (the Electronic Communications Act), as amended (hereinafter „the Act“) and on the basis of the decision of the Council of the Czech Telecommunications Office (hereinafter „the Office“) under Section 107(8)(b)(2) of the Act and in order to implement Section 16(2) of the Act, the Office as the appropriate state administration body under Section 108(1)(b) of the Act hereby issues this Measure of General Nature

**Part No. PV-P/8/10.2005-38
of the Radio Spectrum Utilisation Plan
for the frequency band 14.5–15.35 GHz.**

Article 1
Introductory provision

This part of the Radio Spectrum Utilisation Plan sets down the technical characteristics and conditions of use of radio spectrum in the frequency band from 14.5 GHz to 15.35 GHz by radiocommunication services. This part of the Radio Spectrum Utilisation Plan follows up with the Common part of the Radio Spectrum Utilisation Plan¹⁾.

Part 1
General information on the frequency band

Article 2
Frequency bands

Band (GHz)	Current conditions		Future harmonisation ²⁾	
	Allocation	Utilisation	Allocation	Utilisation
14.5–14.62	FIXED Mobile Space Research	Fixed links	FIXED MOBILE	Fixed links
14.62–14.8	FIXED MOBILE Space Research	Military Fixed links	FIXED MOBILE	Military

¹⁾ Common part of the Radio Spectrum Utilisation Plan Nr. PV/10.2005-35 published in the Telecommunication Journal 14/2005 .

²⁾ ERC Report 25: European Table of Frequency Allocations and Utilisations covering the frequency range 9 kHz to 275 GHz, rev. Copenhagen, 2004.

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14.8–15.23	FIXED MOBILE ³⁾	Military Fixed links	FIXED MOBILE ³⁾	Military
15.23–15.35	FIXED Mobile ³⁾	Fixed links	FIXED MOBILE ³⁾	Fixed links

Article 3 Frequency band characteristics

The band is in majority of European countries characterised by the utilisation for various types of fixed links of low and medium capacity. Middle part of the band is in Europe determined for military use and sharing with civil applications could be arranged on national level. ERC Report³⁾ (Chyba! Záložka není definována.) assumes secondary allocation of the band 14.5–15.35 GHz to the radio astronomy service too. In the Czech Republic this band is not allocated to the radio astronomy and utilisation by these applications is not assumed.

Article 4 International obligations

Provisions of the Radio Regulations⁴⁾ (hereinafter „RR“) and HCM Agreement⁵⁾ apply to operation and coordination.

Part 2 Fixed service

Article 5 Current conditions in the fixed service

(1) In the fixed service the band is shared by civil and military users. For the time being is use of the fixed links of civil users established in the bands 14.5–14.62 GHz and 15.23–15.35 GHz.

(2) The bands are determined for use of the fixed links point-to-point and following condition apply to operated transmitting radio devices:

- a) duplex separation 728 MHz;
- b) at least four states digital modulation format;
- c) channel separation is 28 MHz and reference frequency $f_0 = 14\,924$ MHz, then the centre frequencies f_n a f_n' [MHz] of particular operation channels are expressed by the following relationships:

$$\begin{aligned} f_n &= f_0 - 437 + 28n, \text{ in lower part of the band and} \\ f_n' &= f_0 + 291 + 28n, \text{ in upper part of the band,} \\ &\text{where } n = 1, 2, \text{ to } 4 \text{ (preferably 4 or 3),} \end{aligned}$$

³⁾ The band 15.20–15.35 GHz is in accordance with footnote 5.339 of Radio Regulations allocated additionally on secondary basis to Earth exploration-satellite service (passive) and space research service (passive).

⁴⁾ Radio Regulations, International Telecommunication Union, Geneva, 2004.

⁵⁾ HCM Agreement – Agreement between the Administrations of Austria, Belgium, the Czech Republic, Germany, France, Hungary, the Netherlands, Croatia, Italy, Liechtenstein, Lithuania, Luxembourg, Poland, Romania, the Slovak Republic, Slovenia and Switzerland on the co-ordination of frequencies between 29.7 MHz and 39.5 GHz for the fixed service and the land mobile service, Vilnius, 2005.

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or channel separation is 14 MHz and reference frequency $f_0 = 14\,924$ MHz, then the centre frequencies f_n a f_n' [MHz] of particular operation channels are expressed by the following relationships:

$$\begin{aligned} f_n &= f_0 - 423 + 14n, \text{ in lower part of the band and} \\ f_n' &= f_0 + 305 + 14n, \text{ in upper part of the band,} \\ &\text{where } n = 1, 2, 3, \text{ až } 8 \text{ (preferably } 8, 7, 6 \text{ or } 5), \end{aligned}$$

or channel separation is 7 MHz and reference frequency $f_0 = 14\,924$ MHz, then the centre frequencies f_n a f_n' [MHz] of particular operation channels are expressed by the following relationships:

$$\begin{aligned} f_n &= f_0 - 426.5 + 7n, \text{ in lower part of the band and} \\ f_n' &= f_0 + 301.5 + 7n, \text{ in upper part of the band,} \\ &\text{where } n = 1, 2, 3, \text{ až } 16 \text{ (preferably } 1 \text{ to } 8). \end{aligned}$$

Arrangement is in accordance with Recommendations of ITU-R⁶⁾ and CEPT⁷⁾.

(3) The Office performs national frequency coordination with the Ministry of Defence before individual authorisation issuing for outside channels and in situation of locality sharing. For avoiding of possible mutual harmful interference is use of the adjacent channels of two operators limited to needful minimum.

Article 6

Information on future development in the fixed service

Civil fixed links operation in the band 14.62-15.23 GHz will be gradually ceased.

Part 3

Mobile service

Article 7

Current conditions in the mobile service

Mobile service in this band has no civil utilisation in the Czech Republic.

Article 8

Information on future development in the mobile service

Changes in the utilisation of the band are not expected.

⁶⁾ Recommendation ITU-R F.636-3 – Radio-frequency channel arrangements for radio-relay systems operating in the 15 GHz band.

⁷⁾ Recommendation CEPT/ERC/REC 12-07 –Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the bands 14.5–14.62 GHz paired with 15.23–15.35 GHz.

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Part 4

Earth exploration-satellite service and space research service

Article 9

Current conditions in the Earth exploration-satellite service and space research service

The band 14.8–15.35 GHz is allocated to Earth exploration-satellite service and space research service on secondary basis in accordance with the footnote) of RR for passive application.

Article 10

Information on future development in the Earth exploration-satellite service and space research service

Changes in the utilisation of the band are not expected.

Part 5

Final provisions

Article 11

Effect

This part of the Radio Spectrum Utilisation Plan comes into effect on 1 April 2006.

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Explanatory memorandum

To implement Section 16(2) of the Act, the Office issues the Measure of General Nature Part No. PV-P/8/10.2005-38 of the Radio Spectrum Utilisation Plan (hereinafter the "part of the plan"), laying down the technical characteristics and conditions of the use of radio spectrum in the frequency band from 14.5 GHz to 15.35 GHz by radiocommunication services.

The part of the plan is based on the principles set down in the Act and in European legislation, especially Directive 2002/21/EC of the European Parliament and of the Council of 7 March 2002 on a common regulatory framework for electronic communications networks and services (Framework Directive) and Decision No 676/2002/EC of the European Parliament and of the Council of 7 March 2002 on a regulatory framework for radio spectrum policy in the European Community (Radio Spectrum Decision) as well as on principles determined in the Common part of the Radio Spectrum Utilisation Plan No. PV/10.2005-35.

The purpose of this part of the plan is to ensure the transparency of conditions for the radio spectrum use and ability to anticipate the decisions of the Office.

Article 1 defines relation with common part of the Plan and the subject of the measure.

Article 2 consists of information from National Table of Frequency Allocations and information on current utilisation by applications. Column "Future harmonisation" presents future intentions, i.e. allocation to services and utilisation by applications according to ERC Report 25: European Table of Frequency Allocations and Utilisations. More details about applications are in relevant articles on individual radiocommunication services.

Article 4 contains international obligations, determined by Radio Regulations of the International Telecommunication Union and HCM agreement upon which the Office acts in radio spectrum management.

In article 5 the conditions for civil use of the bands in the fixed service are given. Here mentioned conditions are the basic and the Office could in accordance to particular configuration set down additional technical parameters in the individual authorisation for radio frequency utilisation. The principles for coordination of individual users are given. Reference information on conformity of parameters with international documents is in footnotes.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office's Rules for maintaining consultations with the affected parties at the discussion site, the Office published at the discussion site its draft Part No. PV-P/8/XX.2005-Y of the Radio Spectrum Utilisation Plan on 25 July 2005 together with the Call for comments.

During the public consultation period the Office received comments. The proposal for refining of the article 1 and proposal for adding formulas for centre frequency calculation in the fixed service were accepted. The proposal for determining of the bands for particular channel separations was partly accepted. Channels of the same width are placed close one by one usually, but exact determining of frequency limits for each channel separation would limit the flexibility of frequency selection in given location. That is why only the information on preferable index for particular channel separation was added.

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The comment settlement table, made public at the discussion site, contains the texts of all comments and the way how they were settled.

David Stádník
Chairman of the Council
of the Czech Telecommunication Office
<signed>