

Prague 26 May 2010
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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 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/11/05.2010-8 of the Radio Spectrum Utilisation Plan
for the frequency band 27.5–33.4 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 27.5 GHz to 33.4 GHz by radiocommunication services. This part of the Radio Spectrum Utilisation Plan is follow-up to 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
27.5–28.5	FIXED FIXED-SATELLITE (Earth-to space) Fixed-satellite (space- to-Earth) Mobile ^{3) 4)}	Fixed links Fixed-satellite service applications	FIXED FIXED-SATELLITE (Earth-to space) ^{3) 4)}	Fixed links Fixed-satellite service applications Feeder links for broadcasting- satellite service

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 in the frequency range 9 kHz to 3000 GHz, rev. Kyiv, 2009.

³⁾ Band 27.501–29.999 GHz is in accordance with footnote No. 5.540 of the Radio Regulations also allocated to the fixed-satellite service (space-to-Earth) on a primary basis for transmissions of reference signals for up-link power control.

⁴⁾ Footnote 5.538 of Radio Regulations.

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28.5–29.1	FIXED FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) ³⁾	Fixed links Fixed-satellite service applications	FIXED FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) ³⁾	Fixed links Fixed-satellite service applications Feeder links for broadcasting- satellite service
29.1–29.5	FIXED FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) ³⁾	Fixed links Fixed-satellite service applications	FIXED FIXED-SATELLITE (Earth-to space) Earth exploration- satellite (Earth-to- space) ³⁾	Fixed links Fixed-satellite service applications Feeder links for broadcasting- satellite service
29.5–29.9	FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) Mobile-satellite (Earth- to-space) ³⁾	Non-coordinated Earth stations in fixed- satellite and mobile- satellite services	FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) Mobile-satellite (Earth- to-space) ³⁾	Non-coordinated Earth stations in fixed-satellite and mobile-satellite services
29.9–30	FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) ^{3) 4)}	Non-coordinated Earth stations in fixed- satellite and mobile- satellite services	FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) ^{3) 4)}	Non-coordinated Earth stations in fixed-satellite and mobile-satellite services
30–31	FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Standard frequency and time signal- satellite (space-to- Earth)	MD	FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space)	MD
31–31.3	FIXED MOBILE Space research	Fixed links	FIXED MOBILE Space research	Fixed links Radio astronomy
31.3–31.5	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Radio astronomy Transmission forbidden	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Radio astronomy Transmission forbidden

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31.5–31.8	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile		EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile	Fixed links Passive applications
31.8–32.3	FIXED RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)	MD Fixed links	FIXED RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)	Fixed links
32.3–33	FIXED INTER-SATELLITE RADIONAVIGATION	MD Fixed links	FIXED INTER-SATELLITE RADIONAVIGATION	Fixed links
33–33.4	FIXED RADIONAVIGATION	MD Fixed links	FIXED RADIONAVIGATION	Fixed links

Article 3

Frequency band characteristics

(1) The band is allocated particularly to the fixed and fixed-satellite services on a primary basis. Sharing of the band by both services did not cause problems due the low number of fixed-satellite Earth stations in the past. With rise of number of these stations it became apparent, that sharing of the bands with the fixed service applications is not possible due to mutual interference. For this reason the sharing of the band 27.5–29.5 GHz was laid down by the CEPT Decision⁵⁾. On basis of this decision the adjustment of the use of this band in the Czech Republic was made and the arrangement leading to termination of sharing of sub-bands by the fixed service applications with non-coordinated Earth stations in the fixed-satellite service newly putted into operation was carried out.

(2) Operational conditions of the fixed service in the bands 31–31.3 GHz and 31.8–33.4 GHz enable development of low, medium and high capacity fixed links

Article 4

International obligations

Provisions of the Radio Regulations⁶⁾ (hereinafter only „RR“) and HCM Agreement⁷⁾ apply to operation and coordination.

⁵⁾ CEPT/ERC/DEC/(05)01 – ECC Decision of 18 March 2005 on the use of the band 27.5–29.5 GHz by the Fixed Service and uncoordinated Earth stations of the Fixed-Satellite Service (Earth-to-space).

⁶⁾ Radio Regulations, International Telecommunication Union, Geneva, 2008.

⁷⁾ 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.

Part 2
Fixed service

Article 5
Current conditions in the fixed service

(1) In the band 27.5–29.5 GHz which is by RR allocated both to the fixed and fixed-satellite services are for use in the fixed service by CEPT Decision⁵⁾ designated sub-bands 27.8285–28.4445 GHz and 28.9485–29.4525 GHz. Sub-band 28.8365–28.9485 GHz is shared with applications of the fixed-satellite service described in Part 3.

(2) Formerly determined geographical area of Prague⁸⁾ is in the fixed service in the bands 27.8285–28.0525 GHz and 28.8365–29.0605 GHz used for operation of three fixed wireless access FWA⁹⁾ networks under following conditions:

- a) sub-bands 27.8285–27.8425/28.8365–28.8505 GHz are guard bands;
- b) sub-bands 27.8425–27.8985/28.8505–28.9065 GHz are used by holder of radio frequencies assignment;
- c) sub-bands 27.8985–27.9125/28.9065–28.9205 GHz are guard bands and operation of FWA networks in them is possible subject to mutual agreement of assignments holders;
- d) sub-bands 27.9125–27.9685/28.9205–28.9765 GHz are used by holder of radio frequencies assignment;
- e) sub-bands 27.9685–27.9825/28.9765–28.9905 GHz are guard bands and their utilisation is possible subject to mutual agreement of assignments holders;
- f) sub-bands 27.9825–28.0385/28.9905–29.0465 GHz are used by holder of radio frequencies assignment;
- g) sub-bands 28.0385–28.0525/29.0465–29.0605 GHz are guard bands.

(3) Operation of terminals in FWA networks is possible on basis of General Authorisation¹⁰⁾.

(4) Sub-bands 28.0525–28.4445 GHz and 29.0605–29.4525 GHz are designated for utilisation in the fixed service and for fixed links of UMTS¹¹⁾ infrastructure as follows:

- a) sub-bands 28.0525–28.2205/29.0605–29.2285 GHz are designated for point-to-point fixed links;
- b) sub-bands 28.2205–28.2765/29.2285–29.2845 GHz are used by holder of radio frequencies assignment in the UMTS band;
- c) sub-bands 28.2765–28.3045/29.2845–29.3125 GHz are guard bands and their utilisation is possible subject to mutual agreement of assignments holders;

⁸⁾ For reason of determination of geographical area, the area of Prague is set down as the territory of capital city Prague pursuant to § 11 paragraph 1 of the Act No. 131/2000 Coll., on the Capital City Prague, as amended.

⁹⁾ Abbreviation FWA stands for Fixed Wireless Access networks.

¹⁰⁾ General Authorisation No. VO-R/18/08.2005-30 for the operation of terminals of fixed wireless access networks, serving for the connection of telecommunication terminal equipment to a public communication network.

¹¹⁾ Abbreviation UMTS stands for Universal Mobile Telecommunication System which is part of mobile communication systems family known as IMT (International Mobile Telecommunications).

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- d) sub-bands 28.3045–28.3605/29.3125–29.3685 GHz are used by holder of radio frequencies assignment in the UMTS band;
- e) sub-bands 28.3605–28.3885/29.3685–29.3965 GHz are guard bands and their utilisation is possible subject to mutual agreement of assignments holders;
- f) sub-bands 28.3885–28.4445/29.3965–29.4525 GHz are used by holder of radio frequencies assignment in the UMTS band.

(5) Transmitting radio equipment of fixed links point-to-point and point-to-multipoint in sub-bands described in paragraphs 2 to 4 shall meet following conditions:

- a) at least quadrature digital modulation;
- b) time or frequency division duplex operation, in case of frequency division duplex operation the duplex separation of transmitting and receiving frequency is 1008 MHz;
- c) channel separation is 28 MHz and centre frequencies f_n and f_n' [MHz] of particular operational channels are in relation to reference frequency $f_0 = 28\,500.5$ MHz given as follows:

$$\begin{aligned} f_n &= f_0 - 966 + 28n \text{ in the lower part of the band and} \\ f_n' &= f_0 + 42 + 28n \text{ in the higher part of the band,} \\ &\text{where } n = 11, 12 \text{ to } 32, \end{aligned}$$

or channel separation is 14 MHz and centre frequencies f_n and f_n' [MHz] of particular operational channels are in relation to reference frequency $f_0 = 28\,500.5$ MHz given as follows:

$$\begin{aligned} f_n &= f_0 - 959 + 14n \text{ in the lower part of the band and} \\ f_n' &= f_0 + 49 + 14n \text{ in the higher part of the band,} \\ &\text{where } n = 21, 22 \text{ to } 64. \end{aligned}$$

Arrangement complies with recommendations ITU-R¹²⁾ and CEPT¹³⁾.

(6) National frequency coordination in sub-bands described in paragraphs 2 to 4 carry out the holders of radio frequencies assignments themselves. International coordination is carried out by the Office.

(7) The band 31–31.3 GHz is in the fixed service in accordance with CEPT Recommendation¹⁴⁾ designated for operation of point-to-point equipment and following conditions apply:

- a) duplex separation is 140 MHz;
- b) maximum power delivered into antenna feeder of radio equipment is limited to 0 dB;

channel separation is 7 MHz and centre frequencies f_n and f_n' [MHz] of particular operational channels are in relation to reference frequency $f_0 = 31\,150$ MHz given by formulas:

$$\begin{aligned} f_n &= f_0 - 136.5 + 7n \text{ in the lower part of the band and} \\ f_n' &= f_0 + 3.5 + 7n \text{ in the higher part of the band,} \\ &\text{where } n = 1, 2 \text{ to } 8; \end{aligned}$$

¹²⁾ ITU-R F.748-4 – Radio frequency arrangements for systems of the fixed service operating in the 25, 26 and 28 GHz bands.

¹³⁾ CEPT/ERC/REC T/R 13-02 – Preferred channel arrangements for fixed services in the range 22.0–29.5 GHz.

¹⁴⁾ Recommendation CEPT/ECC/REC (02)02 – preferred channel arrangements for fixed service systems (point-to-point and point-to-multipoint) operating in the frequency band 31.0–31.3 GHz.

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or channel separation is 3.5 MHz and centre frequencies f_n and f_n' [MHz] of particular operational channels are in relation to reference frequency $f_0 = 31\,150$ MHz given by formulas:

$$\begin{aligned}f_n &= f_0 - 134.75 + 3.5n \text{ in the lower part of the band and} \\f_n' &= f_0 + 5.25 + 3.5n \text{ in the higher part of the band,} \\&\text{where } n = 17, 18 \text{ to } 32;\end{aligned}$$

- c) the use of the band 31–31.3 GHz is in accordance with RR footnote¹⁵⁾ subject to provisions of ITU Resolution¹⁶⁾ on protection of operation of passive applications in the Earth exploration-satellite service using adjacent band 31.3–31.5 GHz;
- d) national and international coordination is carried out by the Office.

(8) The band 31.8–33.4 GHz is duplex band designated in the fixed service for operation of point-to-point links. Operated transmitting radio equipment shall meet following conditions:

- a) duplex separation is 812 MHz;

channel separation is 56 MHz and centre frequencies f_n and f_n' [MHz] of particular operational channels are in relation to reference frequency $f_0 = 32\,599$ MHz given by formulas:

$$\begin{aligned}f_n &= f_0 - 756 + 56n \text{ in the lower part of the band and} \\f_n' &= f_0 + 56 + 56n \text{ in the higher part of the band,} \\&\text{where } n = 5, 6, 7 \text{ and } 8,\end{aligned}$$

or channel separation is 28 MHz and centre frequencies f_n and f_n' [MHz] of particular operational channels are in relation to reference frequency $f_0 = 32\,599$ MHz given by formulas:

$$\begin{aligned}f_n &= f_0 - 798 + 28n \text{ in the lower part of the band and} \\f_n' &= f_0 + 14 + 28n \text{ in the higher part of the band,} \\&\text{where } n = 17, 18 \text{ to } 22,\end{aligned}$$

or channel separation is 14 MHz and centre frequencies f_n and f_n' [MHz] of particular operational channels are in relation to reference frequency $f_0 = 32\,599$ MHz given by formulas:

$$\begin{aligned}f_n &= f_0 - 791 + 14n \text{ in the lower part of the band and} \\f_n' &= f_0 + 21 + 14n \text{ in the higher part of the band,} \\&\text{where } n = 45, 46 \text{ to } 54.\end{aligned}$$

Arrangement is in accordance with CEPT Recommendation¹⁷⁾;

- b) in the band 31.8–33.4 GHz may occur interference between stations of the fixed service and airborne stations of the radionavigation service. In accordance with RR footnote¹⁸⁾ the Office takes note the operational needs of the radionavigation service and pursuant to particular situation may set down further operational conditions mitigating risk of mutual interference¹⁹⁾;

¹⁵⁾ Footnote 5.338A of RR.

¹⁶⁾ Resolution 750 of RR.

¹⁷⁾ Recommendation CEPT/ERC/REC (01)02 – preferred channel arrangement for fixed service systems operating in the frequency band 31.8–33.4 GHz.

¹⁸⁾ Footnote 5.547A of RR.

¹⁹⁾ Recommendation ITU-R F.1571 – Mitigation techniques for use in reducing the potential for interference between airborne stations in the radionavigation service and stations in the fixed service in the band 31.8–33.4 GHz.

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- c) national and international coordination carries out the Office.

Article 6

Information on future development in the fixed service

(1) On basis of harmonisation documents¹⁷⁾, ²⁰⁾, sharing studies¹⁹⁾ and operational experiences with utilisation of the bands by applications in the fixed service the Office may precise technical conditions of spectrum utilisation in the band 31.8–33.4 GHz. Planning parameters in sub-bands 31.8–32.095 GHz and 32.571–32.907 GHz will be set down in connection with utilisation of sub-bands which were made available.

(2) Development of access networks and networks for support of infrastructure of mobile networks is foreseen, particularly in densely populated areas.

(3) On basis of results of review of reasons for limitation of number of rights to use radio frequencies in the bands described in Article 5, paragraph 2, the conditions for use of these bands will be modified.

Part 3

Fixed-satellite service

Article 7

Current conditions in the fixed-satellite service

(1) Utilisation of the band 27.5–29.5 GHz by non-coordinated Earth stations in the fixed-satellite service is set down according to the CEPT Decision⁵⁾ as follows:

- a) sub-bands 27.5–27.8285 GHz, 28.4445–28.8365 GHz and 29.4525–29.5 GHz are designated for exclusive use by non-coordinated Earth stations in the fixed-satellite service;
- b) sub-band 28.8365–29.9485 GHz may be used by non-coordinated Earth stations in the fixed-satellite service outside geographical territory of Prague⁸⁾ specified by the Office.

(2) Furthermore apply, that Earth stations in the fixed-satellite service shall use automatic power control and non-coordinated stations shall in addition not use the sub-bands of 10 MHz wide which are adjacent to sub-bands allocated exclusively for use in the fixed service.

(3) The band 27.5–30 GHz may be used according to RR footnote²¹⁾ by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service.

(4) Use of the bands 27.5–28.6 GHz and 29.5–30 GHz (Earth-to-space) by systems using non-geostationary orbits in the fixed-satellite service is in case of coordination with other non-geostationary satellite systems in the fixed-satellite service in accordance with RR footnote²²⁾ subject to application of RR provision²³⁾.

²⁰⁾ Recommendation CEPT/ECC/REC (04)06 – Guidelines for block allocation for fixed wireless systems in the band 31.8–33.4 GHz.

²¹⁾ Footnote 5.539 of RR.

²²⁾ Footnote 5.484A of RR.

²³⁾ Provision No. 9.12 of RR.

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(5) The bands 27.500–27.501 GHz and 29.999–30 GHz are additionally according to RR footnote⁴⁾ allocated on primary basis to the fixed-satellite service (space-to-Earth) for transmitting of reference signals for up-link power control. These transmissions in space-to-Earth direction shall not exceed value of +10 dBW in directions to neighbouring satellites on geostationary orbit.

(6) The band 27.501–29.999 GHz is according to RR footnote²⁴⁾ also additionally allocated on secondary basis to the fixed-satellite service (space-to-Earth) for transmission of reference signals for up-link power control.

(7) According to RR footnote²⁵⁾ the utilisation of the band 28.6–29.1 GHz (Earth-to-space) by the systems with geostationary and non-geostationary satellites in the fixed-satellite service is subject to RR provision²⁶⁾ and RR provision²⁷⁾ does not apply in this case.

(8) According to RR footnote²⁸⁾ the geostationary systems operating in the band 29.1–29.4 GHz shall use adaptive power control or other methods of fading compensation.

(9) Utilisation of the band 29.1–29.5 GHz by the fixed-satellite service is according to RR footnote²⁹⁾ limited to geostationary systems and to feeder links of non-geostationary systems in the mobile-satellite service.

(10) The band 29.5-30 GHz is in the fixed-satellite service and mobile-satellite service used on basis of CEPT Decisions³⁰⁾, ³¹⁾ by the Earth satellite interactive terminals LEST³²⁾ and HEST³³⁾ for transmission in direction to satellites. Operation is possible on basis of the General Authorisation³⁴⁾.

(11) The fixed-satellite service in the band 30–31 GHz has no civil utilisation in the Czech Republic.

Article 8

Information on future development in the fixed-satellite service

In case of rise of the number of non-coordinated Earth stations in the fixed-satellite service connected with development of satellite systems these stations will be in accordance with European harmonisation excluded from the regime of the individual authorisation and a General Authorisation which will set the conditions of their operation will be issued.

²⁴⁾ Footnote 5.540 of RR.

²⁵⁾ Footnote 5.523A of RR.

²⁶⁾ Provision No. 9.11A of RR.

²⁷⁾ Provision No. 22.2 of RR.

²⁸⁾ Footnote 5.541A of RR.

²⁹⁾ Footnote 5.535A of RR.

³⁰⁾ ECC Decision ECC/DEC/(06)02 of 24 March 2006 on Exemption from Individual Licensing of low e.i.r.p. satellite terminals (LEST) operating within the frequency bands 10.70–12.75 GHz or 19.70–20.20 GHz (space-to-Earth) and 14.00–14.25 GHz or 29.50–30.00 GHz (Earth-to-space).

³¹⁾ ECC Decision ECC/DEC/(06)03 of 24 March 2006 on Exemption from Individual Licensing of high e.i.r.p. satellite terminals (HEST) operating within the frequency bands 10.70–12.75 GHz or 19.70–20.20 GHz (space-to-Earth) and 14.00–14.25 GHz or 29.50–30.00 GHz (Earth-to-space).

³²⁾ Abbreviation LEST stands for Low E.i.r.p. Satellite Terminals.

³³⁾ Abbreviation HEST stands for High E.i.r.p. Satellite Terminals.

³⁴⁾ General Authorisation No. VO-R/4/05.2009-6 to operate terminals for communication using satellites in the bands of 10-30 GHz.

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Part 4
Mobile-satellite service

Article 9
Current conditions in the mobile-satellite service

(1) The band 29.5-30 GHz is in the fixed-satellite service and in the mobile-satellite service on basis of CEPT Decisions³⁰⁾, ³¹⁾ used by Earth satellite interactive terminals LEST³²⁾ and HEST³³⁾ for transmission in direction to satellites. Operation is possible on basis of the General Authorisation³⁴⁾. In accordance with RR footnote³⁵⁾ the RR provision³⁶⁾ does not apply for the mobile-satellite service in the band 29.5–30 GHz.

(2) In the band 30–31 GHz the mobile-satellite service has no civil use in the Czech Republic.

Article 10
Information on future development in the mobile-satellite service

The changes in the utilisation of the band by this radiocommunication service are not on national or international level anticipated.

Part 5
Mobile service

Article 11
Current conditions in the mobile service

In the Czech Republic the band is not used in this service for civil purposes.

Article 12
Information on future development in the mobile service

The changes in the utilisation of the band by this radiocommunication service on national or international level are not anticipated.

Part 6
Radionavigation service

Article 13
Current conditions in the radionavigation service

To the service is allocated the band 31.8–33.4 GHz in which the interference between the stations in the fixed service and airborne stations of the radionavigation service may occur. According to RR footnote¹⁸⁾ the Office will take into account the needs of the radionavigation service.

³⁵⁾ Footnote 5.527 of RR.
³⁶⁾ Provision No. 4.10 of RR.

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Article 14

Information on future development in the radionavigation service

The changes in the utilisation of the band by this radiocommunication service on national or international level are not anticipated.

Part 7

Earth exploration-satellite service

Article 15

Current conditions in the Earth exploration-satellite service

(1) According to RR footnote³⁷⁾ is in the band 28.5–30 GHz the Earth exploration-satellite service limited to data transfer between stations, not for primary data collection using active nor passive sensors.

(2) The band 29.95–30 GHz may be according to RR footnote³⁸⁾ used in the secondary category by the inter-satellite links in the Earth exploration-satellite service for purposes of telemetry, remote monitoring and control.

Article 16

Information on future development in the Earth exploration-satellite service

The changes in the utilisation of the band by this radiocommunication service on national or international level are not anticipated.

Part 8

Space research service

Article 17

Current conditions in the space research service

For the space research service in the band 31–31.3 GHz according to RR footnote³⁹⁾ the limitation of the power flux density according to RR Article⁴⁰⁾ applies. Service is not used in the Czech Republic.

Article 18

Information on future development in the space research services

The changes in the utilisation of the band by this radiocommunication service on national or international level are not anticipated.

³⁷⁾ Footnote 5.541 of RR.

³⁸⁾ Footnote 5.543 of RR.

³⁹⁾ Footnote 5.544 of RR.

⁴⁰⁾ Article 21 of RR, table 21-4.

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Part 9
Radio astronomy service

Article 19
Current conditions in the radio astronomy service

(1) Radio astronomy service is passive radiocommunication service based on the reception of the radio waves of cosmic origin. Due to low level of received signals the operation of this service depends on protection against interference from other radiocommunication services.

(2) According to RR footnote⁴¹⁾ the users of the bands 31.2–31.3 GHz and 31.5–31.8 GHz are obliged to take all practicable steps to protect radio astronomy service from their transmitting equipment.

(3) The band 31.3–31.5 GHz is exclusively allocated for radio astronomy and according to RR footnote⁴²⁾ all transmissions are in this band forbidden.

(4) In the Czech Republic is not operated any radio astronomy observation station in these bands.

Article 20
Information on future development in the radio astronomy service

The changes in the utilisation of the band by this radiocommunication service are on national or international level not anticipated.

Part 10
Standard frequency and time signal-satellite service

Article 21
Current conditions in the standard frequency and time signal-satellite service

The service is not used in the Czech Republic.

Article 22
Information on future development in the standard frequency and time signal-satellite service

The allocation to this service in the Czech Republic will be cancelled.

⁴¹⁾ Footnote 5.149 of RR.

⁴²⁾ Footnote 5.340 of RR.

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Part 11
Inter-satellite service

Article 23
Current conditions in the inter-satellite service

The band 32.3–33 GHz is allocated to the inter-satellite service, the use of the band is governed by RR footnote⁴³⁾ and RR recommendation⁴⁴⁾.

Article 24
Information on future development in the inter-satellite service

The changes in the utilisation of the band by this radiocommunication service are on national or international level not anticipated.

Part 12
Final provisions

Article 25
Repealing provision

This is to repeal Measure of General Nature Part No. PV-P/11/03.2006-9 of the Radio Spectrum Utilisation Plan for frequency band 27.5–33.4 GHz of 9 March 2006.

Article 26
Effect

This part of the Radio Spectrum Utilisation Plan comes into effect on 15 June 2010.

⁴³⁾ Footnote 5.548 of RR.

⁴⁴⁾ Recommendation 707 of RR.

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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/11/05.2010-8 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 27.5 GHz to 33.4 GHz by radiocommunication services.

The part of the plan is based on the principles embedded in the Act and in European legislation, especially Directive 2002/21/EC of the European Parliament and of the Council 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 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 radio spectrum use and the ability to anticipate the future decisions of the Office. The reason for issue of this part of the plan was particularly need to make available not yet used bands allocated to the fixed service and modification of conditions in sub-bands so far shared by the fixed and satellite services. Changes resulting from up-to-date edition of Radio Regulations and other associated documents were incorporated into text.

In Article 2 is presented information from Plan of Frequency Bands Allocations (National Table of Frequency Allocations) amended by information on current utilisation by applications. Simultaneously are presented harmonisation intentions, i.e. allocation to radiocommunication services and utilisation by applications according to ERC Report 25: European Table of Frequency Allocations and Utilisations. As regards utilisation the main applications are listed only and further details are in relevant articles dedicated to individual radiocommunication services. The table was newly amended by information on current status of use by applications in connection with changes which are described below.

Article 3 presents characteristics of the frequency band and in new edition it was modified with regard to changes in following articles. The article informs about changes in sharing of frequencies used by applications of the fixed and fixed satellite services.

In article 4 are listed international obligations, in the case of this band it means the Radio Regulations of the International Telecommunication Union and HCM Agreement.

Article 5 submits basic conditions of utilisation of the band by the fixed service. Owing to, that sharing of sub-bands 27.8285–28.0525 GHz and 28.9485–29.0605 GHz by the fixed service stations with non-coordinated Earth stations in the fixed-satellite service is not possible even if techniques mitigating interference are used, and further with regard to European priority of fixed links networks development in mentioned bands, the Office acceded to termination of further development of operation of non-coordinated Earth stations in the fixed-satellite service in mentioned bands. In new edition of part of the plan was therefore modified wording of the article 5 and also was modified corresponding text of article 7, paragraph 1, with operational conditions of the fixed-satellite service applications. Other modification in new edition of part of the plan is availability of the band 31–31.3 GHz and setting down of basic operational conditions in mentioned band for operation of low and medium capacity point-to-point links. In this context the annotation to new RR footnote¹⁵⁾ referencing to RR Resolution¹⁶⁾ on protection of passive radiocommunication services was inserted into text. The band 31.8–33.4 GHz was newly made available for high capacity links, on planning parameters informs newly inserted paragraph 8. Proposed conditions follow up-to-date needs of potential parties interested in mentioned band and simultaneously leave

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space for further development of the band. The article was also editorially and structurally modified and references to associated documents were updated as well.

About future development in the fixed service refers article 6. Into the article is in connection with availability of the bands 31–31.3 GHz and 31.8–33.4 GHz newly added information on possible clarification of technical conditions of utilisation of the band, including future opening of further channels in the band 31.8–33.4 GHz. To article was also attached information on review of reasons for limitation of number of rights for use of radio frequencies by the fixed service in the bands 27.8285–28.0525 GHz and 28.8365–29.0605 GHz. On basis of results of above mentioned review the Office will consider a modification of conditions for use of these bands.

Article 7 informs about current status in the fixed-satellite service. The most significant modification is opening of the bands 27.8285–28.4445 GHz and 28.9485–29.0605 GHz so far shared with the fixed service applications in favour of the fixed service. Further pieces of context are described in passage of explanatory memorandum describing changes in article 5. In paragraph 10 was newly inserted reference to published and in the Czech Republic already implemented harmonisation documents and text was terminologically modified. On basis of updating of RR footnote⁴) the operational conditions of transmissions designated for down-link power control in article 5 were modified. Newly inserted paragraph 11 informs on non-civil use of the band 30–31 GHz.

Article 8 contains information regarding future development in the fixed-satellite service and in new edition of part of the plan was not modified.

Newly modified article 9 with operational conditions of mobile-satellite service reflects publication of in the Czech Republic already implemented harmonisation documents for operation of satellite terminals. Newly inserted paragraph 2 informs about non-civil use of the band 30–31 GHz.

Articles 10 to 21 with information on other radiocommunication services were from content point of view not modified, except article 18 with information on expected development in the space research service, where the text was updated taking into account currently available information.

In article 22 with information on future development in the standard frequency and time signal-satellite service was newly added information about future termination of allocation to this service in the Czech Republic.

Part 11 with provisions for the inter-satellite service was newly inserted in order to reach consistency with up-to-date edition of RR.

In article 25 is cancelled previous edition of part of the plan of radio spectrum utilisation for frequency band 27.5–33.4 GHz.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office's Rules for conducting consultations with the entities concerned at the discussion site, the Office published at the discussion site its draft Part No. PV-P/11/XX.2010-YY of the Radio Spectrum Utilisation Plan on 16 April 2010 together with a call for observations. During the public consultation the Office received observations submitted pursuant to article 6 of the Czech Telecommunication Office's Rules for conducting consultations at the discussion site. The Office also received standpoints, comments and contributions which do not comply with set down conditions of the Rules.

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Observations led particularly to releasing of frequency from the fixed service band 31.8–33.4 GHz, which was formerly intended for operation of applications using channel of 112 MHz width, in favour of narrower channels. Other observations concerned to diversification of channels with widths of 14 to 56 MHz, formal and terminological modifications. Observations were adequately accepted.

Received contributions of comment and standpoint character were taken into account during preparation of final wording of part of the plan.

In table of settlement published at discussion site is listed wording of observations and contributions and their settlement.

On Behalf of the Council of the
Czech Telecommunication Office

Pavel Dvořák
Chairman of the Council
of the Czech Telecommunication Office
<signed>