

Prague 29 July 2015
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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 under Section 10 of the Act No. 500/2004 Coll., Administrative Regulations, as amended, on the basis of the decision of the Council of the Czech Telecommunications Office (hereinafter “the Office”) under Section 107(9)(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/11/07.2015-5 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 Uncoordinated Earth stations in the fixed- satellite service Feeder links for the fixed-satellite service	FIXED FIXED-SATELLITE (Earth-to space) ^{3) 4)}	Fixed links Uncoordinated Earth stations in the fixed- satellite service Feeder links for the broadcasting- satellite service

¹ Common part of the Radio Spectrum Utilisation Plan No. PV/10.2005-35, as amended.

² ERC Report 25: European Table of Frequency Allocations and Applications in the frequency range 8.3 kHz to 3000 GHz, rev. 2014.

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.

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28.5–29.1	FIXED FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) 3)	Fixed links Uncoordinated Earth stations in the fixed- satellite service Feeder links for the broadcasting- satellite service	FIXED FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) 3)	Fixed links Uncoordinated Earth stations in the fixed- satellite service Feeder links for the broadcasting- satellite service
29.1–29.5	FIXED FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) 3)	Fixed links Uncoordinated Earth stations in the fixed- satellite service Feeder links for the broadcasting- satellite service	FIXED FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) 3)	Fixed links Uncoordinated Earth stations in the fixed- satellite service Feeder links for the broadcasting- satellite service
29.5–29.9	FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) Mobile-satellite (Earth- to-space) 3)	Uncoordinated Earth stations in the fixed- satellite and mobile- satellite services	FIXED-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) Mobile-satellite (Earth-to-space) 3)	Uncoordinated Earth stations in the 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)	Uncoordinated Earth stations in the fixed- satellite and mobile- satellite services	FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Earth exploration- satellite (Earth-to- space) 3) 4)	Uncoordinated Earth stations in the 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 Radio astronomy	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

⁴ Footnote 5.538 of Radio Regulations.

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31.5–31.8	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile	Fixed links Passive stations	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile	Fixed links Passive stations
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 27.5–33.4 GHz is allocated in particular to the fixed service and the fixed-satellite service on a primary basis. As the operation of new satellite networks in 27.5–30 GHz band is on the increase, the convenient conditions need to be arranged for the uncoordinated Earth stations in the fixed-satellite service for sharing of the frequency band with other services, in particular with the fixed service. For this reason the CEPT Decision⁵⁾ set down sub-bands, technical and operational requirements under which the sharing of radiocommunication services is possible.

(2) The bands 31–31.3 GHz and 31.8–33.4 GHz are used in the fixed service by low, medium and high capacity fixed links.

Article 4

International obligations

Provisions of the Radio Regulations⁶⁾ (hereinafter only “RR”) and provisions of the HCM⁷⁾ Agreement apply to the use and coordination of frequencies.

⁵ Decision CEPT/ERC/DEC/(05)01 of 8 March 2013 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, 2012.

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 43.5 GHz for the fixed service and the land mobile service.

Part 2
Fixed service

Article 5
Current conditions in the fixed service

(1) The sub-bands 27.8285–28.4445 GHz and 28.9485–29.4525 GHz are in accordance with CEPT Decision⁵⁾ designated in the Czech Republic for use in the fixed service.

(2) The sub-band 27.8285–27.9405 GHz is in accordance with CEPT Decision⁵⁾ designated for operation of point-to-multipoint fixed links of FWA⁸⁾ networks under following conditions:

- a) time division duplex operation;
- b) channel separation is 28 MHz, whereas centre frequency f_n [MHz] of particular operating channels is in relation to the reference frequency $f_0 = 28\,500.5$ MHz given by formula

$$f_n = f_0 - 966 + 28n,$$

where $n = 11, 12$ up to 14,

or 14 MHz, whereas centre frequency f_n [MHz] of particular operating channels is in relation to the reference frequency $f_0 = 28\,500.5$ MHz given by formula

$$f_n = f_0 - 959 + 14n,$$

where $n = 21, 22$ up to 28.

Arrangement is in accordance with ITU-R⁹⁾ and CEPT¹⁰⁾ Recommendations.

(3) Duplex sub-bands 27.9405–28.2205/28.9485–29.2285 GHz are in accordance with CEPT Decision⁵⁾ designated for operation of point-to-multipoint fixed links of FWA⁸⁾ networks.

(4) Duplex sub-bands 28.2205–28.4445 GHz and 29.2285–29.4525 GHz are designated for fixed links of IMT¹¹⁾ networks infrastructure. In these sub-bands is number of rights for use of frequencies limited and following conditions apply:

- a) sub-bands 28.2205–28.2765/29.2285–29.2845 GHz are used by a holder of radio frequencies assignment for fixed links of networks infrastructure of IMT systems;
- b) 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;
- c) sub-bands 28.3045–28.3605/29.3125–29.3685 GHz are used by a holder of radio frequencies assignment for fixed links of networks infrastructure of IMT systems;
- d) 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;

⁸⁾ Abbreviation FWA stands for Fixed Wireless Access networks.

⁹⁾ ITU-R F.748-4 – Radio frequency arrangements for systems of the fixed service operating in the 25, 26 and 28 GHz bands.

¹⁰⁾ CEPT/ERC/REC T/R 13-02 – Preferred channel arrangements for fixed services in the range 22.0–29.5 GHz.

¹¹⁾ Technology belongs to the group of mobile communication systems referred to by abbreviation IMT (International Mobile Telecommunications).

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- e) sub-bands 28.3885–28.4445/29.3965–29.4525 GHz are used by a holder of radio frequencies assignment for fixed links of networks infrastructure of IMT systems.

(5) Transmitting radio equipment of the fixed links in sub-bands described in paragraphs 3 and 4 shall meet following conditions:

- a) digital modulation;
- b) frequency division duplex operation with separation of transmitting and receiving frequency of 1008 MHz;
- c) in the case of point-to-multipoint fixed links the base stations transmit in lower half of the band;
- d) 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:

$$\begin{aligned} f_n &= f_0 - 966 + 28n \text{ in the lower part of the band and} \\ f_n' &= f_0 + 42 + 28n \text{ in the higher part of the band,} \\ &\text{where } n = 15, 16 \text{ to } 32, \end{aligned}$$

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:

$$\begin{aligned} f_n &= f_0 - 959 + 14n \text{ in the lower part of the band and} \\ f_n' &= f_0 + 49 + 14n \text{ in the higher part of the band,} \\ &\text{where } n = 29, 30 \text{ to } 64. \end{aligned}$$

Arrangement is in accordance with recommendations ITU-R⁹⁾ and CEPT¹⁰⁾.

(6) Maximum power delivered to antenna feeder of radio equipments operated in sub-bands described in paragraphs 2 to 4 is limited to +35 dBm and terminals of FWA networks newly put into operation shall employ automatic control of transmitting power¹²⁾.

(7) The use of frequencies by terminals of FWA networks is possible on the basis of General authorisation¹³⁾.

(8) The Office carries out national frequency coordination in sub-bands described in paragraphs 2 and 3. The holders of radio frequencies assignments carry out the national coordination in sub-bands described in paragraph 4 amongst themselves. The Office carries out the international coordination in sub-bands described in paragraphs 2 to 4.

(9) The band 31–31.3 GHz is designated for operation of point-to-point links in the fixed service in accordance with CEPT Recommendation¹⁴⁾ under following conditions:

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

¹²⁾ Abbreviation stands for Automatic Transmit Power Control – ATPC.

¹³⁾ General authorisation No. VO-R/1/04.2014-2 for the users' terminals of the radio networks of the electronic communications, as amended.

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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- c) 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:

$$f_n = f_0 - 136.5 + 7n \text{ in the lower part of the band and} \\ f_n' = f_0 + 3.5 + 7n \text{ in the higher part of the band,} \\ \text{where } n = 1, 2 \text{ to } 16;$$

- d) 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 stations in the Earth exploration-satellite service using adjacent band 31.3–31.5 GHz;
- e) the national and international coordination is carried out by the Office.

(10) 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;
- b) 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:

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

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:

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

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:

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

Arrangement is in accordance with CEPT Recommendation¹⁷⁾;

- c) 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 to the operational needs of the radionavigation

¹⁵ Footnote 5.338A of RR.

¹⁶ Resolution 750 of RR.

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

¹⁸ Footnote 5.547A of RR.

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service and pursuant to particular situation the Office may set down further operational conditions to decrease risk of mutual interference¹⁹⁾;

- d) the use of band 31.8–33.4 GHz by stations of high density systems in the fixed service is in accordance with RR footnote²⁰⁾ subject to the provisions of Resolution of ITU²¹⁾ which designates the sub-band 31.8–32.3 GHz for deep space research.
- e) the Office carries out the national and international coordination.

Article 6

Information on future development in the fixed service

(1) The Office will consider the extension of conditions for utilization of the sub-band 27.8285–27.9405 GHz by stations with channel arrangement of 56 MHz.

(2) On the basis of harmonisation documents¹⁷⁾, sharing studies¹⁹⁾ and operational experience with utilisation of the bands by stations in the fixed service, the Office may precise the technical conditions of spectrum utilisation particularly in the band 31.8–33.4 GHz.

Part 3

Fixed-satellite service

Article 7

Current conditions in the fixed-satellite service

(1) In the band 27.5–30 GHz there are sub-bands designated for the use by uncoordinated Earth stations in the fixed-satellite service in the Earth-to-space direction as follows:

- a) the sub-bands 27.5–27.8285 GHz, 28.4445–28.9485 GHz and 29.4525–29.5 GHz are designated in accordance with the CEPT Decision⁵⁾ for the use by uncoordinated Earth stations in the fixed-satellite service;
- b) the sub-band 29.5–30 GHz is designated for the use by uncoordinated Earth stations according to CEPT Decision²²⁾ and furthermore by LEST²³⁾ and HEST²⁴⁾ stations according to CEPT Decision^{25), 26)};
- c) the sub-bands stated in paragraphs a) and b) can be used also by the stations on mobile platforms²⁷⁾ under conditions listed in the CEPT Decision²⁸⁾;

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.

²⁰⁾ Footnote 5.547 of RR.

²¹⁾ Resolution 75 of RR.

²²⁾ Decision CEPT/ECC/DEC/(05)08 of 8 March 2013 on the availability of frequency bands for high density applications in the Fixed-Satellite Service (space-to-Earth and Earth-to-space).

²³⁾ Abbreviation LEST stands for Low E.i.r.p. Satellite Terminals.

²⁴⁾ Abbreviation HEST stands for High E.i.r.p. Satellite Terminals.

²⁵⁾ Decision CEPT/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 10.7–12.75 GHz or 19.7–20.2 GHz (space-to-Earth) and 14.0–14.25 GHz or 29.5–30.0 GHz (Earth-to-space).

²⁶⁾ Decision CEPT/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 10.7–12.75 GHz or 19.7–20.2 GHz (space-to-Earth) and 14.0–14.25 GHz or 29.5–30.0 GHz (Earth-to-space).

²⁷⁾ Abbreviation ESOMPs stands for Earth Stations on Mobile Platforms which are intended to be used while in motion as land based, airborne and vessel stations.

²⁸⁾ Decision CEPT/ECC/DEC/(13)01 of 8 March 2013 on the harmonized use, free circulation and exemption from individual licensing of Earth Stations On Mobile Platforms (ESOMPs) within the frequency bands 17.3–20.2 GHz and 27.5–30.0 GHz.

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- d) the Earth stations in the fixed-satellite service shall employ automatic control of transmitting power¹²⁾;
- e) the uncoordinated Earth stations shall not use sub-bands of 10 MHz wide which are adjacent to the sub-bands designated to to use in the fixed service;
- f) General authorisation¹³⁾ sets down the factual conditions of the use of radio frequencies including technical parameters by aforementioned Earth stations.

(2) The band 27.5–30 GHz can be used according to RR footnote²⁹⁾ by the fixed-satellite service (Earth-to-space) for feeder links in the broadcasting-satellite service.

(3) The 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 in the course of coordination with other non-geostationary satellite systems in the fixed-satellite service is subject to, in accordance with RR footnote³⁰⁾, application of RR provision³¹⁾.

(4) The bands 27.5–27.501 GHz and 29.999–30 GHz are additionally according to RR footnote⁴⁾ allocated on a 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 e.i.r.p. in directions to neighbouring satellites on geostationary orbit.

(5) The band 27.501–29.999 GHz is according to RR footnote³²⁾ also additionally allocated on secondary basis to the fixed-satellite service (space-to-Earth) for transmission of reference signals for up-link power control.

(6) According to RR footnote³³⁾ 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 provision³⁴⁾ and RR provision³⁵⁾ does not apply in this case.

(7) According to RR footnote³⁶⁾ the geostationary systems operating in the band 29.1–29.4 GHz shall use adaptive power control or other methods of fading compensation.

(8) The use of the band 29.1–29.5 GHz by the fixed-satellite service is according to RR footnote³⁷⁾ limited to both geostationary systems and the feeder links of non-geostationary systems in the mobile-satellite service.

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

Article 8

Information on future development in the fixed-satellite service

Draft of CEPT Report³⁸⁾ expects extension of the use of the sub-bands 27.5–29.1 GHz and 29.5–30 GHz by Earth stations of non-geostationary satellite networks. The

²⁹⁾ Footnote 5.539 of RR.

³⁰⁾ Footnote 5.484A of RR.

³¹⁾ Provision No. 9.12 of RR.

³²⁾ Footnote 5.540 of RR.

³³⁾ Footnote 5.523A of RR.

³⁴⁾ Provision No. 9.11A of RR.

³⁵⁾ Provision No. 22.2 of RR.

³⁶⁾ Footnote 5.541A of RR.

³⁷⁾ Footnote 5.535A of RR.

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stations can be placed on mobile platforms provided that their utilisation is on the basis of General authorisation.

Part 4
Mobile-satellite service

Article 9
Current conditions in the mobile-satellite service

(1) The band 29.5-29.9 GHz is allocated to the fixed-satellite service on a secondary basis and the band 29.9–30 GHz on a primary basis. In accordance with RR footnote³⁹), RR provision⁴⁰) does not apply for the mobile-satellite service in the band 29.5–30 GHz.

(2) The mobile-satellite service has no civil use in the band 30–31 GHz 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 expected on the national or the international level.

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

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 interference between stations in the fixed service and airborne stations of the radionavigation service may occur.

³⁸ Report CEPT/ECC/REP 217 – The use of land and maritime Earth Stations on Mobile Platforms operating with NGSO FSS Satellite Systems in the frequency range 17.3–20.2 GHz (s/E), 27.5–29.1 GHz (E/s) and 29.5–30 GHz (E/s).

³⁹ Footnote 5.527 of RR.

⁴⁰ Provision No. 4.10 of RR.

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According to RR footnote¹⁸⁾, the Office will take into account the needs of the radionavigation service.

Article 14

Information on future development in the radionavigation service

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

Part 7

Earth exploration-satellite service

Article 15

Current conditions in the Earth exploration-satellite service

(1) According to RR footnote⁴¹⁾ in the band 28.5–30 GHz, the Earth exploration-satellite service is limited to data transfer between stations, not for primary data collection by means of active or passive sensors.

(2) The band 29.95–30 GHz may be according to RR footnote⁴²⁾ used on a secondary basis for space-to-space links in the Earth exploration-satellite service for purposes of telemetry, remote tracking and control.

Article 16

Information on future development in the Earth exploration-satellite service

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

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 footnote⁴³⁾, the limitation of the power flux density according to RR Article⁴⁴⁾ applies. Service is not used in the Czech Republic.

Article 18

Information on future development in the space research services

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

⁴¹⁾ Footnote 5.541 of RR.

⁴²⁾ Footnote 5.543 of RR.

⁴³⁾ Footnote 5.544 of RR.

⁴⁴⁾ 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 footnote⁴⁵) 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 against interference from their transmitting radio equipment.

(3) The band 31.3–31.5 GHz is exclusively allocated to radio astronomy and according to RR footnote⁴⁶) all transmissions are forbidden in this band.

(4) These bands are not used by any radio astronomy observatory station in the Czech Republic.

Article 20

Information on future development in the radio astronomy service

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

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 will be cancelled in the Czech Republic.

⁴⁵ Footnote 5.149 of RR.

⁴⁶ 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, whereas use of the band is subject to RR footnote⁴⁷⁾ and RR recommendation⁴⁸⁾.

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

For the time being no information on the change of utilisation in this radiocommunication service is known.

Part 12
Final provisions

Article 25
Cancelling provisions

The part of the Radio Spectrum Utilisation Plan No. PV-P/11/02.2011-1 for the frequency band 27.5–33.4 GHz of 8 February 2011 is cancelled.

Article 26
Effect

This part of the Radio Spectrum Utilisation Plan is effective from 1 September 2015.

⁴⁷⁾ Footnote 5.548 of RR.

⁴⁸⁾ Recommendation 707 of RR.

Explanatory memorandum

To implement Section 16(2) of the Act, the Office issues the Measure of General Nature Part No. PV-P/11/07.2015-5 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. This part of the plan is based on the principles embedded in the Act and in European legislation, especially in Directive 2002/21/EC of the European Parliament and of the Council on a common regulatory framework for electronic communications networks and services (within the meaning of the Directive 2009/140/EC⁴⁹) and in 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, as amended. The purpose of this part of the plan is to ensure the transparency of conditions for radio spectrum use, and to anticipate the future decisions of the Office.

This measure of general nature replaces the part No. PV-P/11/02.2011-1 of the Radio Spectrum Utilisation Plan for the frequency band 27.5–33.4 GHz. The main reason of issuing this measure is, in accordance with current European harmonisation, to precise the conditions of the use of the frequency bands 27.5–27.8285 GHz, 28.4445–28.9485 GHz and 29.4525–30 GHz for the use by uncoordinated Earth stations in the fixed-satellite and mobile-satellite services. Proposed modifications follow the changes launched by previous issue of this part of the plan with objective to eliminate gradually the former sharing of some sub-bands between two radiocommunication services, namely the fixed service and fixed-satellite service which have allocation on a primary basis and which limited the future development of these services. The other modifications include liberalisation of the conditions for utilisation of bands designated for operation of the fixed links of mobile access networks infrastructure.

Article 2 contains information from the Plan Frequency Bands Allocations (National Table of Frequency Allocations) and the table is amended with information on current utilisation by stations. The harmonisation intention based on ERC Report 25: European Table of Frequency Allocations and Applications is also presented. The satellite stations itemisation was specified as well. As regards overview of utilisation, the main applications are stated only whereas further details are described in relevant articles dedicated to individual radiocommunication services.

Article 3 presents characteristic of the band and generally informs about next steps focused on ensuring optimal conditions of the spectrum utilisation by stations in the fixed service and uncoordinated Earth stations in the fixed-satellite service.

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

Part 2 presents basic conditions of the frequency band utilisation by the fixed service. In the sub-bands 28.2205–28.4445 GHz and 29.2285–29.4525 GHz which are used by fixed links of the mobile access networks infrastructure (originally named “UMTS”), the operation of infrastructure networks links, more general abbreviated as IMT, which in accordance with ITU-R 56-1 Resolution includes IMT-2000 and IMT-Advanced systems, is enabled with respect to the technological development. The scheduled transitional period with purpose of cancelling the sub-band 28.8365–28.9485 GHz for preferential utilisation of the fixed service was terminated: no individual authorisation for the fixed service is now registered in this sub-band. In paragraph 10 with conditions for the band 31.8–33.4 GHz, in accordance with the RR, the provision aiming for the protection of science service, namely the space research (deep space) was added in letter d). In view of the fact that in the Czech Republic there is not

⁴⁹ Directive 2009/140/E of the European Parliament and of the Council amending Directives 2002/21/EC on a common regulatory framework for electronic communications networks and services, Directive 2002/19/EC on access to, and interconnection of, electronic communications networks and associated facilities and Directive 2002/20/EC on the authorisation of electronic communications networks and services.

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

planned any stations designated for communication with the stations in deep space in Ka band, the implementation of limitation, in relation to the fixed links, is not expected in the band 31.8–32.3 GHz according to RR footnote²⁰).

Part 3 informs on current conditions in the fixed-satellite service. The structure of article 7 was modified due to the implementation of amended or new harmonisation documents. Summary of the conditions of spectrum utilisation are presented in paragraph 1 for uncoordinated Earth stations in geo-stationary and non-geostationary networks which include stations of high density systems, terminals with low and high radiated power and stations on mobile platforms (ESOMPs, the stations fitted up on vehicles, aircrafts or vessels). These terminals are in Europe exempted from individual authorisation regime hence in the Czech Republic, their operation is possible on the basis of general authorisation which sets down the operational and technical conditions, particularly the limits of radiated power. Information in article 8 with future development outlines the prospect of ESOMP stations and prepared extension of used frequencies by other sub-bands for these stations.

In part 4 addressing the mobile-satellite service, the basic conditions are set down only in accordance with RR in view of the relatively small sub-band which is allocated to the service and thus relevance for civil communication. The operational conditions of mobile stations in satellite networks are presented in total in part 3 along with fact that these stations are considered as part of the fixed-satellite service.

Parts 5 to 11 submit basic information about conditions of the use of frequencies by other radiocommunication services to which the band is allocated. The conditions correspond with provisions of RR.

Article 25 refers to the cancelling provisions and the effectiveness of the part of plan is set down in article 26 in accordance with Section 124 of the Act.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office's Rules for conducting consultations at the discussion site, the Office published draft Part No. PV-P/11/XX.2015-Y of the Radio Spectrum Utilisation Plan on 1 June 2015 together with a call for comments. The Office received comments from two entities during the public consultation. The comment which proposed the introduction of conditions for the use of the band 27.8285–27.9405 MHz by stations with channel separation of 56 MHz was not accepted in this issuing. Proposed modification of the conditions calls for more detailed analysis of possible impacts on radio spectrum utilisation in aforementioned band.

The Office will decide on next steps in this matter with respect to the intention in justified cases an utilisation of wider radio channels make gradually possible (see Strategy of radio spectrum management), namely after additional information will be received and subsequent analysed. The comment for limitation of the fixed service in the band 31.8–33.4 GHz was accepted by modification of text in obligatory part as well as in explanatory memorandum.

The table with responses and settlements published on discussion site presents full wording of all comments and the way of their settlement including detailed justification.

On behalf of the Council of the
Czech Telecommunication Office

Jaromír Novák
Chairman of the Council
of the Czech Telecommunication Office
<signed>