

Prague 11 June 2007  
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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/6/06.2007-7  
of the Radio Spectrum Utilisation Plan  
for the frequency band 1900–2200 MHz.**

**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 1900 MHz to 2200 MHz by radiocommunication services. This part of the Radio Spectrum Utilisation Plan is follow-up to the Common part of the Radio Spectrum Utilisation Plan<sup>1)</sup>.

**Part 1  
General information on the frequency band**

**Article 2  
Frequency bands**

Band (MHz)	Current conditions		Future harmonisation <sup>2)</sup>	
	Allocation	Utilisation	Allocation	Utilisation
1900–1980	FIXED MOBILE	IMT-2000/UMTS	FIXED MOBILE	IMT-2000/UMTS
1980–2010	FIXED MOBILE MOBILE-SATELLITE (Earth-to-space)	Mobile-satellite application	FIXED MOBILE MOBILE-SATELLITE (Earth-to-space)	Mobile-satellite application

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

<sup>2)</sup> 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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2010–2025	FIXED MOBILE	IMT-2000/UMTS	FIXED MOBILE	IMT-2000/UMTS
2025–2110	SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION- SATELLITE (Earth- to-space) (space- space) FIXED MOBILE SPACE RESEARCH (Earth-to-space) (satellite-satellite)	MD SAB/SAP	SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION- SATELLITE (Earth- to-space) (space- space) FIXED MOBILE SPACE RESEARCH (Earth-to-space) (satellite-satellite)	Fixed links Space science applications SAB/SAP MD
2110–2120	FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space)	IMT-2000/UMTS	FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space)	IMT-2000/UMTS
2120–2170	FIXED MOBILE	IMT-2000/UMTS	FIXED MOBILE	IMT-2000/UMTS
2170–2200	FIXED MOBILE MOBILE SATELLITE (space-to-Earth)	Mobile-satellite applications	FIXED MOBILE MOBILE SATELLITE (space-to-Earth)	Mobile-satellite applications

### Article 3

#### Frequency band characteristics

Frequency band 1900–2200 MHz is in accordance with the CEPT Decisions<sup>3)</sup>, <sup>4)</sup> one of the basic bands designated for UMTS, which is in coordination introduced by European countries and which is part of the worldwide family of 3G mobile communications IMT-2000<sup>5)</sup> pursuant to the ITU-R Recommendation<sup>6)</sup>.

### Article 4

#### International obligations

Provisions of the Radio Regulations<sup>7)</sup> (hereinafter „RR“) and HCM Agreement<sup>8)</sup> apply to operation and coordination.

<sup>3)</sup> ERC Decision of 30 June 1997 on the frequency bands for the introduction of the Universal Mobile Telecommunications System (UMTS).

<sup>4)</sup> ERC Decision of 29 November 1999 on the harmonised utilisation of spectrum for terrestrial Universal Mobile Telecommunications System (UMTS) operating within the bands 1900–1980 MHz, 2010–2025 MHz and 2110–2170 MHz.

<sup>5)</sup> IMT-2000 means International Mobile Telecommunications-2000.

<sup>6)</sup> ITU-R Rec. M.1036-1 –Spectrum considerations for implementation of international mobile telecommunications 2000 (IMT-2000) in the bands 1885–2025 and 2110–2200 MHz.

<sup>7)</sup> Radio Regulations, International Telecommunication Union, Geneva, 2004.

<sup>8)</sup> 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  
**Mobile service**

Article 5  
**Current conditions in the mobile service**

(1) Sub-band 1900–1900.1 MHz is a guard band and its utilisation is not possible.

(2) Sub-band 1900.1–1920.1 MHz is designated for use by the IMT-2000/UMTS with time division duplex TDD<sup>9)</sup>). Number of the rights to use of the radio frequencies is limited to four. Each of the sub-bands 1900.1–1905.1 MHz, 1905.1–1910.1 MHz, 1910.1–1915.1 MHz a 1915.1–1920.1 MHz could be used by the rights holder<sup>10)</sup> for operation of single countrywide network providing public electronic communications services.

(3) Sub-band 1920.1–1920.3 MHz is a guard band and its utilisation is not possible.

(4) Sub-band 1920.3–1979.7 / 2110.3–2169.7 MHz is designated for IMT-2000/UMTS with frequency division duplex FDD<sup>11)</sup>). Duplex separation is 190 MHz. Sub-band 1920.3–1979.7 MHz is designated for transmitting of user terminals on basis of the general authorisation<sup>12)</sup>. Sub-band 2110.3–2169.7 MHz is designated for transmission of the base stations. Number of the rights to use of the radio frequencies is limited to three. Each of the sub-bands 1920.3–1940.1 / 2110.3–2130.1 MHz, 1940.1–1959.9 / 2130.1–2149.9 MHz and 1959.9–1979.7 / 2149.9–2169.7 MHz could be used by the rights holder) for operation of single countrywide network providing public electronic communications service.

(5) Sub-band 1979.7–1980 MHz is a guard band and its utilisation is not possible.

(6) Sub-band 1980–2010 MHz is not designated for use by the mobile service.

(7) Sub-band 2010–2014.5 MHz is designated for UMTS and about its utilisation was not decided yet.

(8) Sub-band 2014.5–2019.5 MHz is designated for use by the IMT-2000/UMTS TDD and number of the rights to use radio frequencies is limited to one. Sub-band could be used by the rights holder) for operation of single countrywide network providing public electronic communications service.

(9) Sub-band 2019.5–2019.7 MHz is a guard band and its utilisation is possible on basis of the rights holders mutual agreement.

(10) Sub-band 2019.7–2024.7 MHz is designate for use by the IMT-2000/UMTS TDD and number of the rights to use radio frequencies is limited to one. Sub-band could be used by the rights holder) for operation of single countrywide network providing public electronic communications service.

(11) Sub-band 2024.7–2025 MHz is a guard band and its utilisation is not possible.

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<sup>9)</sup> TDD means Time Division Duplex.

<sup>10)</sup> Provisions No. 21 and 22 of the Law.

<sup>11)</sup> FDD means Frequency Division Duplex.

<sup>12)</sup> General authorisation No. VO-R/1/07.2005-14

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(12) Sub-band 2025–2110 MHz is designated for links of the news gathering ENG/OB<sup>13</sup>), or other ancillary services for sound and television broadcasting SAP/SAB<sup>14</sup>), in the sub-band 2025–2070 MHz on basis of the coordination with Ministry of Defence.

(13) Sub-band 2110–2110.3 MHz is a guard band and its utilisation is not possible.

(14) Sub-band 2169.7–2170 MHz is a guard band and its utilisation is not possible.

(15) The rights holder is obliged to carry out mutual coordination with other rights holders. Needed data will provide the Office on basis of the application. On basis of the successful coordination the rights holder is authorised to decide about particular frequencies utilisation.

#### Article 6

### **Information on future development in the mobile service**

Footnote of the RR<sup>15</sup>) anticipates the high altitude platform stations utilisation as the base stations for IMT-2000.

#### Part 3

### **Fixed service**

#### Article 7

### **Current conditions in the fixed service**

In this band the fixed service has no civil use in the Czech Republic.

#### Article 8

### **Information on future development in the fixed service**

Utilisation of the bands 1900–2025 MHz and 2110–2200 MHz in the fixed service is not envisaged.

#### Part 4

### **Mobile-satellite service**

#### Article 9

### **Current conditions in the mobile satellite service**

(1) The bands 1980–2010 MHz (Earth-to-space) and 2170–2200 MHz (space-to-Earth) are allocated on a primary basis to the mobile satellite service. By the CEPT Decisions<sup>16</sup>), <sup>17</sup>) the bands are designated for utilisation by the systems of the personal satellite communications S-PCS<sup>18</sup>) and systems with complementary ground stations. In

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<sup>13</sup>) Electronic News Gathering / Outside Broadcasting.

<sup>14</sup>) Service Ancillary for Broadcasting / Service Ancillary for Program.

<sup>15</sup>) Provision 5.388A of RR.

<sup>16</sup>) ERC Decision of 30 June 1997 on the harmonised use of spectrum for satellite personal communication services (S-PCS) operating within the bands 1610–1626.5 MHz, 2483.5–2500 MHz, 1980–2010 MHz and 2170–2200 MHz.

<sup>17</sup>) ERC Decision of 30 June 1997 on transitional arrangements for the fixed service and the mobile-satellite service in the bands 1980–2010 MHz and 2170–2200 MHz in order to facilitate the harmonised introduction and development of satellite personal communications services.

<sup>18</sup>) Satellite Personal Communication System.

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accordance with the provision of the RR<sup>19</sup>) the bands could be utilised by satellite component of IMT-2000 and in accordance with to the footnote of the RR<sup>20</sup>) the coordination pursuant to provision of the RR<sup>21</sup>) and Resolution ITU-R<sup>22</sup>) is needed.

(2) The bands 1980–2010 MHz (Earth-to-space) and 2170–2200 MHz (space-to-Earth) are in accordance with Commission decision<sup>23</sup>) designated for the systems providing mobile satellite services, i.e. systems capable of providing radiocommunication services between a mobile earth station and one or more space stations, or between mobile earth stations by means of one or more space stations, or between a mobile earth station and one or more complementary ground stations used at fixed locations. Any complementary ground station shall constitute an integral part of the mobile satellite system and shall be controlled by the satellite resources and network management system. It shall use the same direction of transmission and the same portions of the frequency bands as the associated satellite components and shall not increase the spectrum requirements for its associated mobile satellite system.

(3) The bands 1980–2010 MHz and 2170–2200 MHz could not be utilised until the Commission decision on selection and authorisation of providers of systems providing mobile satellite services.

#### Article 10

##### **Information on future development in the mobile-satellite service**

Anticipated is the European harmonised development of the systems in the mobile-satellite service with the complementary ground components.

#### Part 5

##### **Space operation service, space research service and Earth exploration-satellite service**

#### Article 11

##### **Current conditions in the space operation service, space research service and Earth exploration-satellite service**

The band 2025–2110 MHz is to these services allocated on primary basis, the band 2110–2120 MHz to the space research service, too. The services are not utilised in the Czech Republic.

#### Article 12

##### **Information on future development in the space operation service, space research service and Earth exploration-satellite service**

The changes in the utilisation of the band by these services are not anticipated.

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<sup>19</sup>) Provision 5.351A of the RR.

<sup>20</sup>) Provision 5.389A of the RR.

<sup>21</sup>) Provision No. 9.11A of the RR.

<sup>22</sup>) Resolution No. 716 ITU-R (rev. WRC-2000).

<sup>23</sup>) COMMISSION DECISION of 14 February 2007 on the harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services (2007/98/ES)

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Part 6  
**Final provisions**

Article 13  
**Cancelling**

The Measure of General Nature - Part No. PV-P/6/03.2006-6 of the Radio Spectrum Utilisation Plan for the frequency band 1900–2200 MHz is cancelled.

Article 14  
**Effect**

This part of the Radio Spectrum Utilisation Plan comes into effect on the fifteenth day after the publication in the Telecommunication Journal.

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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/6/06.2007-7 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 1900 MHz to 2200 MHz 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 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 3 presents characteristics of the frequency band and Article 4 contains international obligations, determined by Radio Regulations of the International Telecommunication Union and HCM Agreement which replaced former Berlin 2003 Agreement.

The most important utilisation of the band is operation of countrywide networks in the mobile service, which are described in the Part 2. Document authorises the rights holders to utilise next sub-bands settled by the procedure of the provisions No. 21 and 22 of the Law.

Information on other radiocommunication services, to which is the band allocated, is in subsequent articles.

Reason of the new edition of the part of the plan is the Commission Decision of 14 February 2007 on the harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite service (2007/98/EC), which are member states obliged to implement till 1 July 2007. This decision designated the bands 1980–2010 MHz and 2170–2200 MHz for systems providing mobile satellite services, which could include complementary ground stations too. Complementary ground stations are the earth stations used at fixed location in order to improve the availability of the mobile satellite service in zones where communication with one or several space stations cannot be ensured with the required quality. It is anticipated that systems will be deployed Europe-wide, the selection and authorisation will be coordinated. Relevant changes of the part of the plan are made in the Article 9. Footnote No. 18 was updated too, in order to be in line with new CEPT Decision on satellite mobile systems with complementary ground stations. Article 10 was updated accordingly.

With the designation of the bands 1980–2010 MHz and 2170–2200 MHz for systems providing mobile satellite services is also related the update of the Article 8 on future development in fixed service, where is stated, that in the bands designated for IMT-

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2000/UMTS and mobile satellite systems is a future utilisation by the fixed services not envisaged due the problematic sharing.

Utilisations of the radio spectrum by the systems providing mobile satellite services is set up technologically neutral and that is why the utilisation in the mobile service was released and not only UMTS is prescribed, but in accordance with the European and ITU harmonisation the utilisation of the all IMT-2000 technologies family is possible.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office's Rules for maintaining consultations at the discussion site, the Office published at the discussion site its draft Part No. PV-P/6/xx.2007-yy of the Radio Spectrum Utilisation Plan on 2 May 2007 together with the Call for comments.

On behalf of the Council of the Czech Telecommunications Office:

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