

**A G R E E M E N T**

**between the Telecommunications Administrations  
of the Russian Federation and the Republic of Poland**

**on the use of the frequency bands 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz for  
stations in the IMT-2000 land mobile service in the border areas**

Nida, 28 August 2009

## Introduction

According to Article 6 of the Radio Regulations the representatives of the Telecommunications Administrations of the Russian Federation and the Republic of Poland (hereinafter referred to as Parties) have agreed the technical criteria and coordination procedure for radio electronic facilities in the IMT-2000 land mobile service in the border areas in the frequency bands 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz

In order to eliminate the possible disagreements at the coordination of the frequency assignments (codes) to stations in the land mobile service the Parties will be guided by the CEPT ERC/REC (01)01 Recommendation (the latest approved version), and ECC/DEC/(06)01 Decision.

This Agreement is based on the concept of the preferential and non-preferential code groups.

### 1. Operational frequencies

1.1. The frequency band 1920-1980 MHz has been paired with the 2110-2170 MHz band to be used for FDD operation. The FDD mode shall be used in the lower band for transmissions of mobile stations and in the upper band for the transmissions of the base stations.

1.2. The 1900-1920 MHz and 2010-2025 MHz frequency bands shall be used for TDD mode.

### 2. Conditions of the use of the frequency bands

2.1. The code groups allocated as preferential between Parties within frequency bands 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz are listed in the Annex.

2.2. Coordination between the FDD systems in border areas is based on the following concept:

2.2.1. Each Party may use without coordination with other Party the UMTS channels if one of the below given conditions have been fulfilled:

- if the preferential codes with the aligned centre frequencies are used;
- if the UMTS centre frequencies are not aligned;
- if the systems other than IMT-2000/UMTS<sup>1</sup> are used.

The predicted average field strength value of each carrier produced by a base station shall not exceed 37 dB $\mu$ V/m/5 MHz at 3 m antenna height above ground level at a distance of 6 km inland the territory of a neighbouring country and 65 dB $\mu$ V/m/5 MHz at 3 m antenna height above ground level at the border line and in the territory of a neighbouring country.

2.2.2. Each Party may use without coordination with other Party the UMTS channels with the use of non-preferential codes with the aligned centre frequencies if the predicted average field strength value of each carrier produced by a base station does not exceed 37 dB $\mu$ V/m/5 MHz at 3 m and above antenna height above ground level at the border line.

2.3. Coordination between the UMTS TDD systems in border areas is based on the following concept:

2.3.1. Each Party may use without coordination with another Party the UMTS TDD channels if one of the below given conditions have been met:

- if the preferential codes with the aligned centre frequencies are used;
- if the UMTS centre frequencies are not aligned;

Also the predicted average field strength value of each carrier produced by a base station shall not exceed 37 dB $\mu$ V/m/5 MHz at 3 m antenna height above ground level at the border line and in the territory of a neighbouring country.

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<sup>1</sup> The systems other than IMT-2000 ones are implied to be wide band systems. The example is given for the frequency band about 5 MHz.

2.3.2. Each Party may use without coordination with other Party the UMTS channels with the use of non-preferential codes with the aligned centre frequencies if the predicted average field strength value of each carrier produced by a base station does not exceed 21 dB $\mu$ V/m/5 MHz at 3 m and above antenna height above ground level at the border line and in the territory of a neighbouring country.

2.4. The frequency assignments to the UMTS station shall be coordinated with other Party if a field strength produced by this station exceeds the levels stated in items 2.2. and 2.3. The coordination procedure and also form and volume of the information submitted for coordination of a frequency assignment (code) should meet the HCM Agreement 2005.

2.5 The period of coordination shall not exceed 65 days from the date of the receipt of the request by fax and 20 days after the reminder. If no reply is received within this period of 85 days the frequency assignment shall be considered as coordinated.

2.6. The field strength values given in this Agreement shall be calculated for 10% of the time and 50% of locations. The Parties shall use the ITU-R Recommendation P.1546 "Method for point-to-area predictions for terrestrial services in the frequency range 30 MHz to 3000 MHz" to evaluate the necessity to carry out the coordination.

2.7. In the presence of interference, the Report of harmful interference shall be presented in accordance with Appendix 10 of the Radio Regulations. The Parties shall take all possible measures in order to eliminate the interference.

### **3. Revision and cancellation of the Agreement**

3.1. This Agreement may be extended, supplemented or revised at any time as desired by one Party subject to the agreement of another Party.

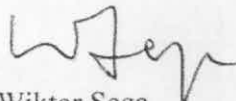
3.2. This Agreement may be cancelled by mutual decision of both Parties or by a decision of one Party subject to the notice of six months of another Party.

### **4. Entry into force of this Agreement**

4.1 This Agreement shall enter into force at the first day of the month following the date of the signing.

4.2. This Agreement has been drawn up in two identical copies: one for each Party.

On behalf of the  
Telecommunications Administration of the  
Republic of Poland

  
Wiktor Sęga

On behalf of the  
Telecommunications Administration of the  
Russian Federation

  
Leonid Mikhalevskiy

Nida, 28 August 2009

**Assignment<sup>1</sup> of preferential code groups between  
the Republic of Poland and Russian Federation**1. FDD case:

Set A	Set B	Set C	Set D	Set E	Set F
0..10	11..20	21..31	32..42	43..52	53..63
POL	RUS	RUS	RUS	POL	POL

2. TDD case:

Set A	Set B	Set C	Set D	Set E	Set F
0..4	5..10	11..15	16..20	21..26	27..31
POL	RUS	RUS	RUS	POL	POL

## Explanation:

For the FDD mode the code groups from 0 to 10 inclusive and from 43 to 63 inclusive are preferential for Poland.

For the FDD mode the code groups from 11 to 42 inclusive are preferential for the Russian Federation.

For the TDD mode the code groups from 0 to 4 inclusive and from 21 to 31 inclusive are preferential for Poland.

For the TDD mode the code groups from 5 to 20 inclusive are preferential for the Russian Federation.

