

**ARRANGEMENT**

**between  
the Electronic Communications Office of the Republic of Latvia  
and the Administration of the Russian Federation  
concerning the use of the frequency band 2300-2400 MHz by  
stations in the land mobile and fixed services in border areas**

**Riga, 2013**

## **Preamble**

According to Article 6 of the ITU Radio Regulations, representatives of the Electronic Communications Office of the Republic of Latvia and the Administration of the Russian Federation (hereinafter referred to as the Parties) have concluded this Arrangement concerning the use of the 2300-2400 MHz frequency band by stations in the land mobile and fixed services in border<sup>1</sup> areas (hereinafter referred to as the Arrangement) with the aim of optimizing the use of the frequency band and avoiding mutual interference on a mutually coordinated basis.

### **1. Principles**

- 1.1. This Arrangement is based on the concept of coordination threshold levels for base stations and on the principle of equal access to spectrum by both Parties.
- 1.2. This Arrangement presumes TDD<sup>2</sup> frequency arrangement for systems in the land mobile and fixed services.
- 1.3. This Arrangement covers coordination of base stations.

### **2. Use of frequencies**

- 2.1. Each Party may use the 2300-2400 MHz frequency band for stations in the TDD mode without coordination with the other Party if the predicted mean field strength produced by the cell (all transmitters within the sector) does not exceed the value of 21 dB $\mu$ V/m/5MHz at the border.
- 2.2. If frequency block size is wider than 5 MHz, a correction, calculated by the formula  $10 \times \lg(\text{frequency block size, MHz} / 5)$ , dB, shall be added to the field strength value indicated in item 2.1.
- 2.3. The field strength values in this Arrangement are defined for a receiving antenna height of 3 m above ground for 10% of time and 50% of locations.

### **3. Procedure**

- 3.1. If the predicted mean field strength values produced by the cell (all transmitters within the sector) exceed the level indicated in item 2.1 the frequency assignment shall be coordinated with the other Party.
- 3.2. The period of coordination shall not exceed 65 days from the date of the receipt of the request and 20 days after the reminder. If no reply is received within 85 days the frequency assignment shall be considered as coordinated. The exchange of coordination information shall take place by e-mail or other electronic means.
- 3.3. When requesting coordination the relevant characteristics of the base station shall be forwarded to the Party affected in the appropriate ITU electronic formats.
- 3.4. Complaints of harmful interference shall be based on the median value of measurements of field strength, performed at a receiving antenna height of 3 m above ground at least in two different points over a distance of at least 100 m along the border.

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<sup>1</sup> In the context of this Arrangement the term "border" is understood as the international borderline between the countries of the Parties

<sup>2</sup> TDD - Time Division Duplex

3.5. Reports of harmful interference shall be presented in accordance to Appendix 10 of the ITU Radio Regulations and processed according to Article 15 of the ITU Radio Regulations.

3.6. For field strength calculations the Parties shall use the latest version of Recommendation ITU-R P.1546 "Method for point-to-area predictions for terrestrial services in the frequency range 30 MHz to 3000 MHz".

#### **4. Revision and cancellation**

4.1. This Arrangement may be revised at any time on the initiative of any Party with the consent of the other Party.

4.2. This Arrangement may be cancelled by mutual decision of both Parties on terms and conditions adopted by the Parties or by a decision of one Party notifying the other Party on its intention at least six months before.

#### **5. Entry into force**

5.1. This Arrangement shall come into force on the date of signing it by both Parties.

5.2. This Arrangement has been drawn up in two identical copies, one for the Republic of Latvia and one for the Russian Federation.

Riga, 17 May 2013

On behalf of the Electronic  
Communications Office of the  
Republic of Latvia

On behalf of the Administration of  
the Russian Federation