Annex 4

ARRANGEMENT

between the Telecommunication Administration of the Russian Federation and the Electronic Communications Office of the Republic of Latvia on the Use of the Frequency Bands 1920-1980 MHz and 2110-2170 MHz by Land Mobile Service Stations in Border Areas

Moscow, 2019

In accordance with Article 6 of the ITU's Radio Regulations, the Telecommunication Administration of the Russian Federation and the Electronic Communications Office of the Republic of Latvia, hereinafter, the Parties, acting with a view to preventing harmful interference and optimizing the use of frequency spectrum, enter into this Arrangement on the Use of the Frequency Bands 1920-1980 MHz and 2110-2170 MHz by Land Mobile Service Stations in Border Areas.

1. The Principles

1.1. This Arrangement is based on ERC Recommendation 01-01.

1.2. This Arrangement is based on the concept of coordination field strength threshold levels, on the concept of preferential code groups for UMTS FDD (Frequency Division Duplex) systems and the concept of preferential physical-layer cell identifiers (PCI) for LTE FDD systems.

1.3. The Parties' preferential code groups for UMTS FDD systems and preferential PCIs for LTE FDD systems are shown in the Annex to this Arrangement.

1.4. Base stations shall use the frequency band 1920-1980 MHz for reception and the frequency band 2110-2170 MHz for transmission. User stations shall use the frequency band 1920-1980 MHz for transmission and the frequency band 2110-2170 MHz for reception.

2. Use of Frequency Bands without Coordination

2.1. Either Party may use any frequency block in the bands 1920–1980 MHz and 2110–2170 MHz without coordination with the other Party if the following conditions are met:
a) aligned centre frequencies and preferential codes for UMTS FDD systems (preferential physical-layer cell identifiers (PCIs) for LTE FDD systems) are used or unaligned centre frequencies are used;
b) the mean field strength of each carrier frequency produced by a base station does not exceed (65+10×log(BW/5 MHz)) dBμV/m/BW at a height of 3 m above ground level on the borderline between the Parties' States and does not exceed (37+10×log(BW/5 MHz)) dBμV/m/BW at a height of 3 m above ground level 6 km from borderline into the territory of the other Party's State, where BW is the bandwidth of the frequency block.

2.2. Either Party may use any frequency block in the bands 1920–1980 MHz and 2110–2170 MHz without coordination with the other Party, if the following conditions are met:
a) aligned centre frequencies and the other Party's preferential codes for UMTS FDD systems (preferential physical-layer cell identifiers (PCIs) for LTE FDD systems) are used;
b) the mean field strength of each carrier frequency produced by a base station does not exceed (37+10×log(BW/5 MHz)) dBμV/m/BW at a height of 3 meters above ground level on the border between the Parties' States, where BW is the bandwidth of the frequency block.

3. General

3.1. If the field strength of each carrier generated by a base station exceeds the levels in Articles 2.1 and 2.2 of this Arrangement, as the case may be, the frequency assignment in question must be coordinated with the other Party.

3.2. The format of the coordination request shall be drawn up according to appropriate ITU electronic format.

3.3. Coordination of a frequency assignment shall not take more than 65 days from the date of receipt of the coordination request by e-mail and/or by fax. If no reply is received during that period, the requesting Party shall send a reminder stating that the coordination request review period has expired. If no reply is received within 20 days from the date of receipt of the reminder, the frequency assignment shall be deemed coordinated.

3.4. Field strength values shall be calculated using the latest version of ITU-R Recommendation P.1546.

3.5. Field strength values shall be calculated for a receiving antenna height of 3 m above the ground for 10% of the time and for 50% of the locations.

3.6. If harmful interference is caused by a station covered by this Arrangement, the Procedure set forth in Article 15, section VI of ITU Radio Regulations shall be applied. The Party with jurisdiction over such station shall, upon receipt of the harmful interference report, take immediate action required to eliminate the interference and advise the other Party accordingly.

4. Modification and Termination of the Arrangement

4.1. Additions and changes to this Arrangement may be made by mutual agreement of the Parties.

4.2. Either Party may terminate this Arrangement by giving a six months' notice to the other Party in writing.

5. Entry into Force

This Arrangement shall enter into force on the date of approval by the Telecommunication Administration of the Russian Federation

By entry into force this Arrangement, the Arrangement between the Electronic Communications Office of the Republic of Latvia and the Administration of the Russian Federation concerning the use of the frequency bands 1920-1980 MHz / 2110-2170 MHz for terrestrial UMTS systems in border areas, signed in Riga on May 17, 2013, shall cease to be in force.

This Arrangement is executed in the English language, in two originals, one for each Party.

Moscow, 17 October 2019

On behalf of the Telecommunication Administration of the Russian Federation	On behalf of the Electronic Communications Office of the Republic of Latvia
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Annex
to the Arrangement between the Telecommunication Administration of the Russian Federation and the Electronic Communications Office of the Republic of Latvia on the Use of the Frequency Bands 1920-1980 MHz and 2110-2170 MHz by Land Mobile Service Stations in Border Areas (Moscow, 2019)

Allocation of Preferential Code Groups and Physical-Layer Cell Identifiers (PCIs) for FDD systems between the Telecommunication Administration of the Russian Federation and the Electronic Communications Office of the Republic of Latvia

The allocation of preferential code groups for UMTS FDD systems between the Telecommunication Administration of the Russian Federation and the Electronic Communications Office of the Republic of Latvia is shown in Table 1.

Table 1

Code numbers	Set A 0…10	Set B 11…20	Set C 21…31	Set D 32…42	Set E 43…52	Set F 53…63
State	Republic of Latvia	Republic of Latvia	Russian Federation	Republic of Latvia	Russian Federation	Russian Federation

The allocation of preferential physical-layer cell identifiers (PCIs) for LTE FDD systems between the Telecommunication Administration of the Russian Federation and the Electronic Communications Office of the Republic of Latvia is shown in Table 2.

Table 2

PCI numbers	Set A 0…83	Set B 84…167	Set C 168…251	Set D 252…335	Set E 336…419	Set F 420…503
State	Republic of Latvia	Republic of Latvia	Russian Federation	Republic of Latvia	Russian Federation	Russian Federation