

ARRANGEMENT

**between the Consumer Protection and Technical Regulatory
Authority of the Republic of Estonia and the Electronic
Communications Office of the Republic of Latvia on the use of
the frequency band 790-862 MHz for terrestrial systems for
Mobile/Fixed Communications Networks (MFCN) in border
areas**

Riga, 24 April 2019

Preamble

According to Article 6 of the ITU Radio Regulations, representatives of the Consumer Protection and Technical Regulatory Authority of the Republic of Estonia and the Electronic Communications Office of the Republic of Latvia (hereinafter referred to as the Parties) have concluded the present Arrangement on the use of the 790-862 MHz frequency band (800 MHz band) by terrestrial systems for mobile and fixed communication networks (MFCN)¹ capable of providing electronic communication services with the aim of optimizing the use of the frequency band and avoiding mutual interference in border areas on a mutually agreed basis (hereinafter referred to as the Arrangement).

This Arrangement cancels and replaces the "Arrangement between the Estonian Technical Surveillance Authority and the Electronic Communications Office of the Republic of Latvia on the use of the frequency band 790-862 MHz for terrestrial systems for Mobile/Fixed Communications Networks (MFCN) in border areas" (Riga, 4th September 2012).

1. Principles

1.1. This Arrangement is based on the concept of coordination threshold levels for base stations, allocation of preferential and non-preferential Physical Cell Identifiers (PCI) for LTE systems as described in Recommendation ECC/REC/(11)04 of 26 May 2011 "Cross-border Coordination for Mobile/Fixed Communications Networks (MFCN) in the frequency band 790-862 MHz" (amended 3 February 2017) (hereinafter referred to as the ECC/REC/(11)04), on the principle of equitable access to spectrum by Parties.

1.2. The following frequency arrangement for terrestrial MFCN systems presumes: FDD² mode is used in the frequency band 791-821 MHz / 832-862 MHz. The frequency arrangement conforms to ECC Decision (09)03 of 30 October 2009 "on harmonised conditions for mobile/fixed communications networks (MFCN) operating in the band 790-862 MHz".

1.3. Allocation of preferential and non-preferential Physical Cell Identifiers (PCI) for LTE systems between Parties is given in Annex of this Arrangement.

1.4. The field strength values in this Arrangement are based on a receiving antenna height of 3 m above ground for 10% of time and 50% of locations.

1.5. This Arrangement covers coordination of base stations.

1.6. In context of this Arrangement the term "border" is understood as the international border line between the countries of the Parties.

2. Use of frequencies

2.1. Each Party may use the 791-821 MHz / 832-862 MHz frequency bands for LTE stations in the FDD mode using its preferential PCIs without coordination with the other Party if the predicted mean field strength produced by the base station cell does not exceed the value of 59 dB μ V/m/5 MHz at the border and does not exceed the value of 41 dB μ V/m/5 MHz at a distance of 6 km from the border inside the neighbouring country.

2.2. For LTE systems each Party may use all PCIs available if the predicted mean field strength produced by the base station cell does not exceed the value of 41 dB μ V/m/ 5 MHz at the border. If the predicted mean field strength produced by the base station cell of LTE systems exceeds the value of 41 dB μ V/m/ 5 MHz at the border each Party shall use only their own preferential PCIs according to the Annex to this Arrangement.

¹ Mobile/fixed communications networks (MFCN) includes IMT and other communications networks in the mobile and fixed services.

² FDD - Frequency Division Duplex.

2.3. If frequency block size is other than 5 MHz, correction calculated by equation $10 \times \log_{10}(\text{channel bandwidth} / 5 \text{ MHz})$, dB, shall be added to the field strength values indicated in items 2.1 and 2.2.

3. Procedure

3.1. If the predicted field strength value produced by the base station exceeds the levels indicated in item 2.1 the frequency assignment shall be coordinated with the other Party.

3.2. The period of coordination shall not exceed 45 days from the date of the receipt of the request and 20 days after the reminder. If no reply is received within 65 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. Coordination requests shall be drawn up according to Annex 4 of the ECC/REC/(11)04 in the appropriate ITU electronic format.

3.4. Complaints of harmful interference shall be based on the median value of measurements of field strength, performed at the receiving antenna height of 3 m at least in two different points over a distance of at least 100 m along the border.

3.5. Reports of harmful interference shall be presented in accordance to Appendix 10 and processed according to Article 15 of the ITU Radio Regulations. The Parties shall take all possible measures in order to eliminate harmful interference.

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. Operators arrangement

4.1. Operators concerned may agree to deviate from field strength levels in item 2.1 by mutual consent, concluding an arrangement between operators with the consent of the Parties concerned. Such operator arrangement shall only be valid as long as all participating operators hold exclusive rights of use of concerned frequencies.

5. Revision and cancellation

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

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

6. Entry into force

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

6.2. This Arrangement has been drawn in two identical copies, one for Latvia and one for Estonia.

Riga, 24 April 2019.

For the Consumer Protection and
Technical Regulatory Authority of
the Republic of Estonia

For the Electronic Communications
Office of the Republic of Latvia

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Arvo Rammus

Māris Aleksandrovs

Allocation of preferential Physical Cell Identifiers (PCI) for LTE systems in the 791-821 MHz / 832-862 MHz frequency band between Latvia and Estonia³

Set	A	B	C	D	E	F
PCI	0 to 83	84 to 167	168 to 251	252 to 335	336 to 419	420 to 503
Set preferential to	LVA ⁴	LVA	EST ⁵	EST	LVA	EST

³ According to Annex 5 of ECC/REC/(11)04.

⁴ LVA – the Republic of Latvia.

⁵ EST – the Republic of Estonia.