TECHNICAL ARRANGEMENT

between the Electronic Communications Office of the Republic of Latvia and the Consumer Protection and Technical Regulatory Authority of the Republic of Estonia concerning the use of the frequency bands 1920-1980 MHz / 2110-2170 MHz for terrestrial Mobile/Fixed Communications Networks (MFCN) in border areas

9 October 2026, Jurmala

Preamble

According to Article 6 of the ITU Radio Regulations, representatives of the Electronic Communications Office of the Republic of Latvia and the Consumer Protection and Technical Regulatory Authority of the Republic of Estonia (hereinafter referred to as the Parties) have concluded this Arrangement concerning the use of the 1920-1980 MHz / 2110-2170 MHz frequency bands for terrestrial mobile/fixed communications networks (MFCN)[1] in border areas (hereinafter referred to as the Arrangement) with the aim of optimizing the use of the frequency bands and avoiding mutual interference on a mutually coordinated basis.

This Arrangement supersedes the "Arrangement between the Electronic Communications Office of the Republic of Latvia and the Consumer Protection and Technical Regulatory Authority of the Republic of Estonia concerning the use of the frequency bands 1920-1980 MHz / 2110-2170 MHz for terrestrial systems for Mobile/Fixed Communications Networks (MFCN) in border areas" (Riga, 24 April 2019).

1. Principles

1.1. This Arrangement is based on the concept of permissible field strength levels for base stations operation, allocation of preferential and non-preferential Physical Cell Identities (PCIs) for LTE and NR systems as described in ERC Recommendation 01-01 of 13 February 2001 (amended 26 June 2026) "Cross-border coordination for Mobile/Fixed Communications Networks (MFCN) in the frequency bands: 1920-1980 MHz and 2110-2170 MHz" (hereinafter referred to as ERC/REC 01-01) and on the principle of the equal access to spectrum by both Parties.

1.2. The following operational mode is used: FDD[2] mode where mobile stations (user equipment or terminals) transmit and receive in the frequency bands 1920-1980 MHz / 2110-2170 MHz respectively, base stations transmit and receive in the frequency bands 2110-2170 MHz / 1920-1980 MHz respectively. This frequency arrangement conforms to ECC Decision (06)01 of 24 March 2006 (amended 7 March 2025) "The harmonised utilisation of the bands 1920-1980 MHz and 2110-2170 MHz for mobile/fixed communications networks (MFCN) including terrestrial IMT systems".

1.3. 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.

1.4. This Arrangement covers coordination of base stations using AAS[3] and non-AAS[4]. The coordination of mobile stations in mobile and fixed services is covered by coordination of base stations.

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

1.6. Field strength values in this Arrangement are mean values for non-AAS base stations and median values for AAS base stations.

2. Use of frequencies

2.1. Each Party may use the frequency bands 1920-1980 MHz / 2110-2170 MHz for MFCN systems on both sides of the borderline without coordination with the other Party if the field strength of each cell produced by the base station does not exceed the field strength levels given in Annex 1 of this Arrangement.

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

[2] FDD – Frequency Division Duplex.

[3] AAS – Active Antenna System (stations that use an antenna that consists of an array of active elements).

[4] Non-AAS – non Active Antenna System.

2.2. For LTE and NR systems in border areas each Party shall use PCI sets according to the Annex 2 of this Arrangement.

2.3. If frequency block size is other than 5 MHz, a correction, calculated by the formula $10 \times \log_{10}$ (frequency block size, MHz / 5 MHz), dB, shall be added to the field strength values indicated in item 2.1.

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 receiving 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 ERC/REC/01-01 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 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.

3.5. Reports of harmful interference shall be presented in accordance with Appendix 10 of the ITU Radio Regulations 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 4000 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.

4.2. Such operator arrangement shall only be valid as long as all participating operators hold exclusive rights of use of concerned frequencies.

4.3. Operators should inform relevant Parties on the cancellation of the operators arrangement. After such cancellation, base stations brought into use under operators arrangement shall operate in accordance with Section 2.

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 the other Party on its intention at least twelve 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 the Republic of Latvia and one for the Republic of Estonia.

9 October 2026, Jurmala

On behalf of the Electronic Communications Office of the Republic of Latvia	For the Consumer Protection and Technical Regulatory Authority of the Republic of Estonia
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Annex 1

Field strength levels for MFCN systems in the 1920-1980 MHz / 2110-2170 MHz frequency bands

	Field strength level, dBµV/m / (5 MHz)	
	Synchronisation signal centre frequencies aligned / not aligned	
	Preferential PCIs	**Non-preferential PCIs**
at the border	65	49
at a distance of 6 km inside the territory of the other Party	49	-
	For NR base station considering subcarrier spacing of 30 kHz the mean value of 65 dBµV/m/(5 MHz) corresponds to SSB[5] field strength level of 43 dBµV/m/(30 kHz) and 49 dBµV/m/(5 MHz) corresponds to SSB field strength level of 27 dBµV/m/(30 kHz).	

[5] Synchronisation Signal Block for NR.

Annex 2

Distribution[6] of preferential Physical Cell Identities (PCIs) for LTE and NR systems in the 1920-1980 MHz / 2110-2170 MHz frequency bands between the Republic of Latvia and the Republic of Estonia

Set	**A**	**B**	**C**	**D**	**E**	**F**
PCI for LTE	0 to 83	84 to 167	168 to 251	252 to 335	336 to 419	420 to 503
PCI for NR	0 to 83 504 to 587	84 to 167 588 to 671	168 to 251 672 to 755	252 to 335 756 to 839	336 to 419 840 to 923	420 to 503 924 to 1007
Set preferential to	LVA[7]	LVA	EST[8]	EST	LVA	EST

[6] According to Annex 3 of ERC/REC 01-01.
[7] LVA – the Republic of Latvia.
[8] EST – the Republic of Estonia.