ARRANGEMENT

between
the Electronic Communications Office of the Republic of Latvia and the Communications Regulatory Authority of the Republic of Lithuania

concerning the use of the frequency band 790-862 MHz for terrestrial systems for Mobile/Fixed Communication Networks (MFCN) in border areas

Vilnius, 31st January 2013

Preamble

According to Article 6 of the ITU Radio Regulations, representatives of the Electronic Communications Office of the Republic of Latvia and the Communications Regulatory Authority of the Republic of Lithuania (hereinafter referred to as the Parties) have concluded this Arrangement concerning the use of the 790-862 MHz frequency band (hereinafter referred to as 800 MHz band) by terrestrial systems for mobile/fixed communication networks (MFCN) 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).

Parties noted that frequency band 800 MHz is currently used for digital terrestrial television broadcasting in both countries in accordance with the Regional Agreement GE06 (Geneva, 2006) and mutual coordination agreements. The Decision No 243/2012/EU of the European Parliament and of the Council of 14th March 2012 establishing a multiannual radio spectrum policy programme (Article 6, paragraph 4) designated the 800 MHz band for electronic communications services in the European Union following technical conditions for terrestrial systems capable of providing electronic communications services described in Annex of the European Commission Decision 2010/267/EU of 6th May 2010 on harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (hereinafter referred to as the Commission Decision 2010/267/EU). CEPT Report 29 elaborated on bases of a mandate issued by the European Commission contains "Guidelines on cross border coordination issues between mobile services in one country and broadcasting services in another country".

1. Principles

1.1. This Arrangement is based on the concept of coordination threshold levels for base stations as described in ECC Recommendation (11)04 "Frequency planning and frequency coordination for terrestrial systems for Mobile/Fixed Communication Networks (MFCN) capable of providing electronic communications services in the frequency band 790-862 MHz" (hereinafter referred to as the Recommendation ECC/REC(11)04), on the principle of equitable access to spectrum by Parties and preferential and non-preferential Physical Cell Identifiers[1] (PCI) for LTE systems.

1.2. The use of the band shall be in accordance with the Commission Decision 2010/267/EU, based on the Block Edge Mask spectrum description, with the Frequency Duplex Division (FDD) arrangement. The use of other frequency arrangements such as Time Division Duplex (TDD) is not covered in this Arrangement.

1.3. This Arrangement covers coordination of base stations.

1.4. The frequency arrangement contains a guard band of 1 MHz (790-791 MHz) intended for protection of broadcasting service.

1.5. This Arrangement does not include provisions concerning the use of the frequency band 821-832 MHz.

1.6. 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] Coordination of the Physical Cell Identifiers (PCI) is only needed in case of use of the LTE systems by both Parties when the channel centre frequencies are aligned independently of the channel bandwidth.

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

2. Use of frequencies and PCI

2.1. Each Party may use the 791-821 MHz / 832-862 MHz frequency bands for stations in the FDD 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 55 dBμV/m/5MHz at the border and does not exceed the value of 29 dBμV/m/5MHz at a distance of 9 km from the border inside the neighbouring country.

2.2. In case LTE FDD systems are deployed on both sides of the border each Party may use the 791-821 MHz / 832-862 MHz frequency bands 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 59 dBμV/m/5MHz at the border and does not exceed the value of 41 dBμV/m/5MHz at a distance of 6 km from the border inside the neighbouring country.

2.3. For LTE systems each Party may use all PCI available if the predicted mean field strength produced by the cell (all transmitters within the sector) does not exceed the value of 29 dBμV/m/5MHz at the border. If the predicted mean field strength produced by the cell (all transmitters within the sector) for LTE systems exceeds the value of 29 dBμV/m/5MHz at the border each Party shall use only their own preferential PCI according to the Annex 1 to this Arrangement.

2.4. If frequency block size is wider than 5 MHz, a correction, calculated by the formula $10 \times \lg$ (frequency block size / 5 MHz), dB, shall be added to the field strength values indicated in items 2.1, 2.2 and 2.3.

2.5. Each Party shall notify the other Party concerning the beginning or cancellation of use of LTE FDD systems in border areas indicating the frequency bands or channels concerned.

3. Procedure

3.1. If the field strength value produced by the cell (all transmitters within the sector) exceeds levels indicated in items 2.1 and 2.2 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 the Recommendation ECC/REC/(11)04.

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.

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. Compatibility between MFCN and DVB-T networks during transition period

4.1. Complete list of frequencies (channels) used for broadcasting in 791-821 MHz / 832-862 MHz frequency bands and the schedule for their switch-off is presented in Annex 2 to this Arrangement.

4.2. CEPT Report 29 provides compatibility conditions for mobile and broadcasting services.

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 the Republic of Latvia and one for the Republic of Lithuania.

Vilnius, 31st January 2013

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

On behalf of the Communications Regulatory Authority of the Republic of Lithuania

Annex 1

**Allocation of preferential Physical Cell Identifiers (PCI)
in the 791-821 MHz / 832-862 MHz frequency bands
between the Republic of Latvia and the Republic of Lithuania[2]**

Set	**A**	**B**	**C**	**D**	**E**	**F**
PCI	0...83	84...167	168...251	252...335	336...419	420...503
Set preferential to	LTU	LVA	LTU	LVA	LVA	LTU

[2] According to Annex 5 of the Recommendation ECC/REC(11)04.

Annex 2

Complete list of frequencies (channels) used for broadcasting in 791-821 MHz / 832-862 MHz frequency bands and the schedule for their switch-off

1. For the Administration of Latvia

1.1.	Suspension of use of TV channel 68 in the allotment Valmiera	01 Jan. 2013
1.2.	Suspension of use of TV channel 67 in the allotment Viesite	01 May 2013
1.3.	Suspension of use of TV channel 69 in the allotment Liepaja	01 June 2013
1.4.	Suspension of use of TV channel 66 in the allotment Riga	01 Feb. 2014
1.5.	Suspension of use of TV channels 61 and 62 in the allotment Liepaja	2014
1.6.	Suspension of use of TV channel 64 in the allotment Daugavpils	2014
1.7.	Suspension of use of TV channel 69 in the allotment Cesvaine	01 July 2015
1.8.	Suspension of use of TV channel 62 in the allotment Rezekne	01 July 2015

2. For the Administration of Lithuania

2.1.	Suspension of use of TV channel 61 in DVB-T station Utena	29 June 2013
2.2.	Suspension of use of TV channel 61 in DVB-T station Tauragė	29 June 2013
2.3.	Suspension of use of TV channel 61 in DVB-T station Biržai	29 June 2013
2.4.	Suspension of use of TV channel 61 in DVB-T station Rokiškis	29 June 2013
2.5.	Suspension of use of TV channel 61 in DVB-T station Raseiniai	29 June 2013
2.6.	Suspension of use of TV channel 62 in DVB-T station Panevėžys	29 June 2013
2.7.	Suspension of use of TV channel 62 in DVB-T station Ukmergė	29 June 2013
2.8.	Suspension of use of TV channel 62 in DVB-T station Viešintos	29 June 2013
2.9.	Suspension of use of TV channel 62 in DVB-T station Kėdainiai	29 June 2013
2.10.	Suspension of use of TV channel 63 in DVB-T station Šiauliai	29 June 2013
2.11.	Suspension of use of TV channel 63 in DVB-T station Druskininkai	29 June 2013
2.12.	Suspension of use of TV channel 63 in DVB-T station Alytus	29 June 2013
2.13.	Suspension of use of TV channel 63 in DVB-T station Raseiniai	29 June 2013
2.14.	Suspension of use of TV channel 63 in DVB-T station Varėna	29 June 2013
2.15.	Suspension of use of TV channel 63 in DVB-T station Naujoji Akmenė	29 June 2013
2.16.	Suspension of use of TV channel 64 in DVB-T station Vilnius	29 June 2013
2.17.	Suspension of use of TV channel 64 in DVB-T station Šalčininkai	29 June 2013
2.18.	Suspension of use of TV channel 65 in DVB-T station Utena	29 June 2013
2.19.	Suspension of use of TV channel 65 in DVB-T station Ignalina	29 June 2013
2.20.	Suspension of use of TV channel 65 in DVB-T station Visaginas	29 June 2013