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 880-890 MHz / 925-935 MHz for terrestrial E-GSM systems in border areas

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 880-890 MHz / 925-935 MHz frequency bands for terrestrial E-GSM systems in border¹ 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.

1. **Principles**

- 1.1. This Arrangement is based on the concept of coordination threshold levels for base stations and preferential / non-preferential radio channels for E-GSM systems as described in ECC Recommendation (05)08 (edition 1 February 2006) "Frequency planning and frequency coordination for the GSM 900, GSM 1800, E-GSM and GSM-R land mobile systems (Except direct mode operation (DMO) channels)" (hereinafter referred to as ECC/REC(05)08) and on the principle of equal access to spectrum by both Parties.
- 1.2. The following frequency arrangement for E-GSM systems presumes: FDD² mobile stations transmit and receive respectively in the bands 880-890 MHz / 925-935 MHz, FDD base stations transmit and receive respectively in the bands 925-935 MHz / 880-890 MHz. This conforms to the "ERC Decision of 21 March 1997 on the extended frequency bands to be used for the GSM Digital Pan-European Communications System (ERC/DEC/(97)02)".
- 1.3. Allocation by preferential and non-preferential channels for E-GSM systems between Parties is given in Annex of the Arrangement.
- 1.4. The Parties agree that centre frequencies and numbers of duplex channels for E-GSM systems are determined in accordance with ETSI³ standard EN 301 087 "Digital cellular telecommunications system (Phase 2 & Phase 2+); Base Station System (BSS) equipment specification; Radio aspects" (hereinafter referred to as EN 301 087). The channel spacing is 200 kHz.
- 1.5. This Arrangement covers coordination of base stations.

2. **Use of frequencies**

- 2.1. Each Party may use its preferential channels without coordination with the other Party if the predicted mean field strength of each carrier produced by the base station does not exceed the value of 19 dBµV/m/200kHz at a distance of 15 km from the border inside the neighbouring country.
- 2.2. Each Party may use the preferential channels of the other Party without coordination with the other Party if the predicted mean field strength of each carrier produced by the base station does not exceed the value of 19 dBµV/m/200kHz at the border.
- 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.

¹ In the context of this Arrangement the term "border" is understood as the international borderline between the countries of the Parties ² FDD - Frequency Division Duplex

³ ETSI - the European Telecommunications Standards Institute

3. Procedure

- 3.1. If the predicted mean field strength value of each carrier produced by the base station exceed the 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 65 days from the date of receiving 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. Coordination requests shall be drawn up according to the provisions of ECC/REC(05)08 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.
- 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 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 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

Allocation of preferential channels in the 880-890 MHz / 925-935 MHz frequency bands between the Republic of Latvia and the Russian Federation

No.	Channel	Transmitting centre	Transmitting centre	Preferential
	number⁺	frequency of mobile	frequency of base	channel
	075	station, whi	station, wiriz	allocated to
1.	975	880.200	925.200	LVA
2.	976	880.400	925.400	LVA
3.	977	880.600	925.600	LVA
4.	978	880.800	925.800	LVA
5.	979	881.000	926.000	LVA
6.	980	881.200	926.200	LVA
7.	981	881.400	926.400	LVA
8.	982	881.600	926.600	LVA
9.	983	881.800	926.800	LVA
10.	984	882.000	927.000	LVA
11.	985	882.200	927.200	LVA
12.	986	882.400	927.400	LVA
13.	987	882.600	927.600	LVA
14.	988	882.800	927.800	LVA
15.	989	883.000	928.000	LVA
16.	990	883.200	928.200	LVA
17.	991	883.400	928.400	LVA
18.	992	883.600	928.600	LVA
19.	993	883.800	928.800	LVA
20.	994	884.000	929.000	LVA
21.	995	884.200	929.200	LVA
22.	996	884.400	929.400	LVA
23.	997	884.600	929.600	LVA
24.	998	884.800	929.800	LVA
25.	999	885.000	930.000	LVA
26.	1000	885.200	930.200	RUS ⁶
27.	1001	885.400	930.400	RUS
28.	1002	885.600	930.600	RUS
29.	1003	885.800	930.800	RUS
30.	1004	886.000	931.000	RUS
31.	1005	886.200	931.200	RUS
32.	1006	886.400	931.400	RUS
33.	1007	886.600	931.600	RUS
34.	1008	886.800	931.800	RUS
35.	1009	887.000	932.000	RUS
36.	1010	887.200	932.200	RUS
37.	1011	887.400	932.400	RUS
38.	1012	887.600	932.600	RUS
39.	1013	887.800	932.800	RUS
10	1014	888.000	933.000	RUS

⁴ According to EN 301 087 ⁵ LVA - the Republic of Latvia ⁶ RUS - the Russian Federation

41.	1015	888.200	933.200	RUS
42.	1016	888.400	933.400	RUS
43.	1017	888.600	933.600	RUS
44.	1018	888.800	933.800	RUS
45.	1019	889.000	934.000	RUS
46.	1020	889.200	934.200	RUS
47.	1021	889.400	934.400	RUS
48.	1022	889.600	934.600	RUS
49.	1023	889.800	934.800	RUS
50.	1024	890.000	935.000	RUS

Summary:

RUS - 25 channels LVA - 25 channels