

## **A G R E E M E N T**

**between the Telecommunication Administrations  
of Estonia and Russia  
concerning the use of the frequency bands  
450-453 MHz and 460-463 MHz  
for Land Mobile Services in the border areas**

## **Preamble**

According to Article 7 of the Radio Regulations (issued in 1990), the representatives of Telecommunications Administrations of Estonia and Russia (hereinafter referred to as Parties) have concluded the present Agreement concerning the use of the frequency bands 450.0-453.0/460.0-463.0 MHz with the purpose of avoiding mutual interference to the Fixed and Land Mobile Services and optimizing the use of the above-stated frequency band on a mutually coordinated basis.

In order to eliminate the possible disagreements the Parties, if necessary, will be guided by the provisions of the Vienna Agreement (1993) and CEPT Recommendation T/R 25-08, while effecting coordination of the frequency assignments to stations in the Land Mobile Services.

### **1. Frequencies**

1.1 The centre frequencies of the duplex channels in the 450.0-453.0/460.0-463.0 MHz frequency bands spaced by 25 kHz, which corresponds to the receiver band width of 25 kHz are listed in Annex 1.

1.2 The frequencies, specified in Annex.2 are allocated as preferential between the Parties on the basis of the equal number of duplex channels.

1.3 In case of transition to a frequency grid with a 12,5 kHz channel spacing, the status of preferential channels of each Party is maintained also for channels which fall into in the intervals between each Party's preferential channels with a 25 kHz channel spacing. A channel with a 12,5 kHz frequency grid at 461.4875/451.4875 MHz shall be subject to coordination if the field strength generated by the base station operating on this channel exceeds the level as specified in 2.2.

1.4 Each Party shall be allowed to operate its preferential frequencies to establish simplex networks in accordance with technical characteristics 2.2.

## **2. Characteristics**

2.1. Each Party may use its preferential channels without coordination with the neighbouring country, if the field strength value at a distance of 50 km inland from the border of the neighbouring country at 10 m antenna height above the ground level does not exceed 20 dB $\mu$ V/m for 10 % of the time and 50 % of the locations.

2.2. Each Party can use preferential channels of the other Party, if the field strength value from the interfering station not exceeds 10 dB $\mu$ V/m at 10 m antenna height above the ground level at the border between the two states for 10 % of the time and 50 % of the locations.

2.3. Each Party shall inform the neighbouring country before bringing into use the frequency assignment on non-preferential channels at a distance of 50 km to the state border using the Annex. 3.

2.4. If the field strength value exceeds the above - stated level (items 2.1 and 2.2) a frequency assignment shall be coordinated with the other country.

2.5. The technical characteristics to be presented for coordination of a frequency assignment are shown in Annex 3.

2.6. The period of coordination shall not exceed 65 days from the date of the receipt of the request by fax and 20 days after the reminder. If no reply is received after 85 days the frequency assignment shall be considered as coordinated.

2.7. In the presence of interference the claims shall be showed in accordance with Appendix 23 of the Radio Regulations (issued in 1990). The Parties shall take all possible measures in order to eliminate the interference.

2.8. Technical and organizational matters arising in the course of coordination shall be discussed at the meeting of experts on the initiative of any Telecommunication Administration in the timeframe agreed with the other Telecommunication Administration.

## **3. Revision of the Agreement**

3.1. The present Agreement can be extended, complemented or revised at any time on the initiative of any Telecommunication Administration with the agreement of the other Administration.

3.2. This Agreement can be cancelled by a mutual decision of both Telecommunication Administrations or by a decision of one Telecommunication Administration subject to a six month notice to the other Administration.

3.3. In the case this Agreement is cancelled coordination shall be effected on the basis of Recommendation CEPT T/R 25-08.

#### **4. Coming into force**


The present Agreement inures one month from the moment of the signing of it by both Telecommunication Administrations.

The present Agreement has been drawn up in English language in two copies:  
One copy for Estonia  
One copy for Russia

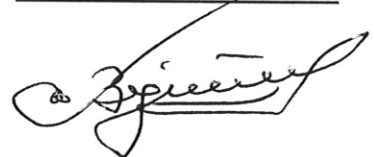
Moscow

9 october 1998

For the Administration of Estonia:

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A. KAMMUS

For the Administration of Russia:

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**Frequency grid  
of the 450.000-452.975 / 460.000-462.975 MHz with the  
25 kHz for duplex radiocommunications systems**

Number of channel	Base station transmission frequency, MHz	Mobil station transmission frequency, MHz	Number of channel	Base station transmission frequency, MHz	Mobil station transmission frequency, MHz
1	460.0000	450.0000	31	460.7500	450.7500
2	460.0250	450.0250	32	460.7750	450.7750
3	460.0500	450.0500	33	460.8000	450.8000
4	460.0750	450.0750	34	460.8250	450.8250
5	460.1000	450.1000	35	460.8500	450.8500
6	460.1250	450.1250	36	460.8750	450.8750
7	460.1500	450.1500	37	460.9000	450.9000
8	460.1750	450.1750	38	460.9250	450.9250
9	460.2000	450.2000	39	460.9500	450.9500
10	460.2250	450.2250	40	460.9750	450.9750
11	460.2500	450.2500	41	461.0000	451.0000
12	460.2750	450.2750	42	461.0250	451.0250
13	460.3000	450.3000	43	461.0500	451.0500
14	460.3250	450.3250	44	461.0750	451.0750
15	460.3500	450.3500	45	461.1000	451.1000
16	460.3750	450.3750	46	461.1250	451.1250
17	460.4000	450.4000	47	461.1500	451.1500
18	460.4250	450.4250	48	461.1750	451.1750
19	460.4500	450.4500	49	461.2000	451.2000
20	460.4750	450.4750	50	461.2250	451.2250
21	460.5000	450.5000	51	461.2500	451.2500
22	460.5250	450.5250	52	461.2750	451.2750
23	460.5500	450.5500	53	461.3000	451.3000
24	460.5750	450.5750	54	461.3250	451.3250
25	460.6000	450.6000	55	461.3500	451.3500
26	460.6250	450.6250	56	461.3750	451.3750
27	460.6500	450.6500	57	461.4000	451.4000
28	460.6750	450.6750	58	461.4250	451.4250
29	460.7000	450.7000	59	461.4500	451.4500
30	460.7250	450.7250	60	461.4750	451.4750

Number of channel	Base station transmission frequency, MHz	Mobil station transmission frequency, MHz	Number of channel	Base station transmission frequency, MHz	Mobil station transmission frequency, MHz
61	461.5000	451.5000	91	462.2500	452.2500
62	461.5250	451.5250	92	462.2750	452.2750
63	461.5500	451.5500	93	462.3000	452.3000
64	461.5750	451.5750	94	462.3250	452.3250
65	461.6000	451.6000	95	462.3500	452.3500
66	461.6250	451.6250	96	462.3750	452.3750
67	461.6500	451.6500	97	462.4000	452.4000
68	461.6750	451.6750	98	462.4250	452.4250
69	461.7000	451.7000	99	462.4500	452.4500
70	461.7250	451.7250	100	462.4750	452.4750
71	461.7500	451.7500	101	462.5000	452.5000
72	461.7750	451.7750	102	462.5250	452.5250
73	461.8000	451.8000	103	462.5500	452.5500
74	461.8250	451.8250	104	462.5750	452.5750
75	461.8500	451.8500	105	462.6000	452.6000
76	461.8750	451.8750	106	462.6250	452.6250
77	461.9000	451.9000	107	462.6500	452.6500
78	461.9250	451.9250	108	462.6750	452.6750
79	461.9500	451.9500	109	462.7000	452.7000
80	461.9750	451.9750	110	462.7250	452.7250
81	462.0000	452.0000	111	462.7500	452.7500
82	462.0250	452.0250	112	462.7750	452.7750
83	462.0500	452.0500	113	462.8000	452.8000
84	462.0750	452.0750	114	462.8250	452.8250
85	462.1000	452.1000	115	462.8500	452.8500
86	462.1250	452.1250	116	462.8750	452.8750
87	462.1500	452.1500	117	462.9000	452.9000
88	462.1750	452.1750	118	462.9250	452.9250
89	462.2000	452.2000	119	462.9500	452.9500
90	462.2250	452.2250	120	462.9750	452.9750

**List of allocation of preferential radiochannels in the frequency band  
450.0-453.0/460.0-463.0 MHz with the step of 25 kHz between  
Telecommunications Administrations of the Russia and Estonia**

<b>RUS(60)</b> 1	<b>EST(60)</b> 61
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**EST** - 60 radiochannels

**RUS** - 60 radiochannels

**CHARACTERISTICS OF ASSIGNMENT**

(separately for base and mobile station)

- 1A. Transmitting frequency (MHz)
- 6A. Class of station
- 2C. Date of bringing into use
- 4A. Name of station
- 4B. Country
- 4C. Geographical coordinates of the station
  - longitude
  - latitude
- 4D. Radius of the service area (km)
- 4Z. Height of the station site above sea level (m)
- 7A. Designation of emission
- 8B1. Max. radiated power (dBW)
- 8B2. Type of reference antenna
- 9A. Azimuth of maximum radiation (degrees)
- 9B. Elevation angle of main radiation (degrees)
- 9D. Polarization
- 9Y. Height of antenna above ground (m)
- 9XH. Type of antenna: horizontal
- 9XV. Type of antenna: vertical
- 1Y. Transmitted frequency of the corresponding receiving station or receiving frequency (Mhz)
- 13Z. Remarks