

ARRANGEMENT

**on use of the bands
380-385 MHz/390-395 MHz
in the border areas**

**for harmonized introduction of the
Digital Land Mobile System for the Emergency Services
(TETRA Emergency)**

between

**Estonian National Communications Board and
Latvia Telecommunication State Inspection**

**Tallinn
January 17, 2003**

1. General

1.1 ERC/DEC/(96)01 designates the bands 380-385/390-395 MHz as frequency bands for use by a harmonized Digital Land Mobile System for Emergency Services. The decisions ERC/DEC/(01)19 and ERC/DEC/(01)20 designate the frequencies for Direct Mode Operation (DMO) and Air-ground-air (AGA) operation respectively both nationally and for the cross-border operations.

1.2 The representatives of Estonian National Communications Board and Latvia Telecommunication State Inspection (hereinafter referred as Parties) have concluded the present Arrangement on the use of the frequency bands 380-385/390-395 MHz in the border areas, with the aim to facilitate the timely and harmonized introduction of the Digital Land Mobile System for the Emergency Services (hereinafter referred as TETRA Emergency).

1.3 This Arrangement allocates all available frequency spectrum into preferential channels (except channels indicated in p.2.3) for each of the Parties, where they are allowed to make the assignments to radio stations without prior coordination with the other Party under the conditions as set forth in this Arrangement.

The principles for coordination between Parties correspond to general provisions of CEPT Recommendation T/R 25-08 (Lecce 1989, revised in Vienna 1999) "Planning criteria and coordination of frequencies in the land mobile service in the range 29.7-960 MHz".

2. Frequencies

2.1 For the purpose of this Arrangement the Parties have agreed to use a channeling plan, based on division of the bands 380-385/390-395 MHz into 20 blocks, each containing 10 pairs of duplex channels of 25 kHz width. The complete channeling plan, with central frequencies for all channels indicated, is presented in the Annex 1 of this Arrangement.

2.2 Division of frequencies into blocks, preferential for each of the Parties, is presented in the Annex 2 of this Arrangement.

2.3 The channels 1-6 and 193-200 have been identified as common channels, i.e. channels for which coordination of TETRA Emergency radio stations for the DMO and AGA purposes between the Parties is not required. The technical conditions for use of these channels shall correspond to provisions of decisions ERC/DEC/(01)19 and ERC/DEC/(01)20.

3. Characteristics and coordination procedures

3.1 Parties may use their preferential channels without coordination with the other Party, if the field strength produced by their stations does not exceed 18 dB μ V/m at a distance of 50 km inland of the neighboring country.

3.2 Parties may use their non-preferential channels without coordination with the other Party, if the field strength produced by their stations does not exceed 18 dB μ V/m at the border line with the neighboring country.

3.3 If the field strength produced by stations exceeds those values indicated in 3.1 and 3.2 such frequency assignments shall be coordinated.

3.4 The period of coordination shall not exceed 60 days from the day of receipt of the request and 25 days after reminder. If no replay is received after 85 days the frequency assignment shall be considered as coordinated.

3.5 All field strength values mentioned above are taken for receiving antenna height of 10 m, 10% of the time, 50% of the locations. The propagation model to be used to determine the interference field strength, should be the method for point-to-area predictions for Terrestrial Services taken from the latest version of the relevant ITU-R Recommendation.

3.6 In the presence of interference the claims shall be shown in accordance with Appendix 10 of the Radio Regulations. The Parties shall take all possible measures in order to eliminate the interference.

3.7 Technical and organizational matters arising in the course of coordination shall be solved by correspondence (telephone, fax or e-mail) or at the meeting of experts.

4. Revision of the Arrangement

4.1 The present Arrangement can be revised at any time on the initiative of any Party with the consent of other Party.

4.2 This Arrangement can be cancelled by a mutual decision of both Parties on terms and conditions adopted by these Parties.

5. Coming into force

The present Arrangement will come into force from the date of its signing.

The present Arrangement has been drawn up in English in two copies.

Tallinn

January 17, 2003

For Estonian National
Communication Board:

For Latvia Telecommunication
State Inspection:

Jüri Jõena
Director General

Vitolds Vaznis
Deputy Director

Channelling plan for the introduction of TETRA Emergency system in the bands 380-385 MHz/390-395 MHz.

Block No.	Channel	MS Tx, MHz	BS Tx, MHz
1	1	380,0125	390,0125
1	2	380,0375	390,0375
1	3	380,0625	390,0625
1	4	380,0875	390,0875
1	5	380,1125	390,1125
1	6	380,1375	390,1375
1	7	380,1625	390,1625
1	8	380,1875	390,1875
1	9	380,2125	390,2125
1	10	380,2375	390,2375
2	11	380,2625	390,2625
2	12	380,2875	390,2875
2	13	380,3125	390,3125
2	14	380,3375	390,3375
2	15	380,3625	390,3625
2	16	380,3875	390,3875
2	17	380,4125	390,4125
2	18	380,4375	390,4375
2	19	380,4625	390,4625
2	20	380,4875	390,4875
3	21	380,5125	390,5125
3	22	380,5375	390,5375
3	23	380,5625	390,5625
3	24	380,5875	390,5875
3	25	380,6125	390,6125
3	26	380,6375	390,6375
3	27	380,6625	390,6625
3	28	380,6875	390,6875
3	29	380,7125	390,7125
3	30	380,7375	390,7375
4	31	380,7625	390,7625
4	32	380,7875	390,7875
4	33	380,8125	390,8125
4	34	380,8375	390,8375
4	35	380,8625	390,8625
4	36	380,8875	390,8875
4	37	380,9125	390,9125
4	38	380,9375	390,9375
4	39	380,9625	390,9625
4	40	380,9875	390,9875
5	41	381,0125	391,0125
5	42	381,0375	391,0375
5	43	381,0625	391,0625
5	44	381,0875	391,0875
5	45	381,1125	391,1125
5	46	381,1375	391,1375
5	47	381,1625	391,1625
5	48	381,1875	391,1875
5	49	381,2125	391,2125
5	50	381,2375	391,2375

Block No.	Channel	MS Tx, MHz	BS Tx, MHz
6	51	381,2625	391,2625
6	52	381,2875	391,2875
6	53	381,3125	391,3125
6	54	381,3375	391,3375
6	55	381,3625	391,3625
6	56	381,3875	391,3875
6	57	381,4125	391,4125
6	58	381,4375	391,4375
6	59	381,4625	391,4625
6	60	381,4875	391,4875
7	61	381,5125	391,5125
7	62	381,5375	391,5375
7	63	381,5625	391,5625
7	64	381,5875	391,5875
7	65	381,6125	391,6125
7	66	381,6375	391,6375
7	67	381,6625	391,6625
7	68	381,6875	391,6875
7	69	381,7125	391,7125
7	70	381,7375	391,7375
8	71	381,7625	391,7625
8	72	381,7875	391,7875
8	73	381,8125	391,8125
8	74	381,8375	391,8375
8	75	381,8625	391,8625
8	76	381,8875	391,8875
8	77	381,9125	391,9125
8	78	381,9375	391,9375
8	79	381,9625	391,9625
8	80	381,9875	391,9875
9	81	382,0125	392,0125
9	82	382,0375	392,0375
9	83	382,0625	392,0625
9	84	382,0875	392,0875
9	85	382,1125	392,1125
9	86	382,1375	392,1375
9	87	382,1625	392,1625
9	88	382,1875	392,1875
9	89	382,2125	392,2125
9	90	382,2375	392,2375
10	91	382,2625	392,2625
10	92	382,2875	392,2875
10	93	382,3125	392,3125
10	94	382,3375	392,3375
10	95	382,3625	392,3625
10	96	382,3875	392,3875
10	97	382,4125	392,4125
10	98	382,4375	392,4375
10	99	382,4625	392,4625
10	100	382,4875	392,4875

Block No.	Channel	MS Tx, MHz	BS Tx, MHz
11	101	382,5125	392,5125
11	102	382,5375	392,5375
11	103	382,5625	392,5625
11	104	382,5875	392,5875
11	105	382,6125	392,6125
11	106	382,6375	392,6375
11	107	382,6625	392,6625
11	108	382,6875	392,6875
11	109	382,7125	392,7125
11	110	382,7375	392,7375
12	111	382,7625	392,7625
12	112	382,7875	392,7875
12	113	382,8125	392,8125
12	114	382,8375	392,8375
12	115	382,8625	392,8625
12	116	382,8875	392,8875
12	117	382,9125	392,9125
12	118	382,9375	392,9375
12	119	382,9625	392,9625
12	120	382,9875	392,9875
13	121	383,0125	393,0125
13	122	383,0375	393,0375
13	123	383,0625	393,0625
13	124	383,0875	393,0875
13	125	383,1125	393,1125
13	126	383,1375	393,1375
13	127	383,1625	393,1625
13	128	383,1875	393,1875
13	129	383,2125	393,2125
13	130	383,2375	393,2375
14	131	383,2625	393,2625
14	132	383,2875	393,2875
14	133	383,3125	393,3125
14	134	383,3375	393,3375
14	135	383,3625	393,3625
14	136	383,3875	393,3875
14	137	383,4125	393,4125
14	138	383,4375	393,4375
14	139	383,4625	393,4625
14	140	383,4875	393,4875
15	141	383,5125	393,5125
15	142	383,5375	393,5375
15	143	383,5625	393,5625
15	144	383,5875	393,5875
15	145	383,6125	393,6125
15	146	383,6375	393,6375
15	147	383,6625	393,6625
15	148	383,6875	393,6875
15	149	383,7125	393,7125
15	150	383,7375	393,7375

Block No.	Channel	MS Tx, MHz	BS Tx, MHz
16	151	383,7625	393,7625
16	152	383,7875	393,7875
16	153	383,8125	393,8125
16	154	383,8375	393,8375
16	155	383,8625	393,8625
16	156	383,8875	393,8875
16	157	383,9125	393,9125
16	158	383,9375	393,9375
16	159	383,9625	393,9625
16	160	383,9875	393,9875
17	161	384,0125	394,0125
17	162	384,0375	394,0375
17	163	384,0625	394,0625
17	164	384,0875	394,0875
17	165	384,1125	394,1125
17	166	384,1375	394,1375
17	167	384,1625	394,1625
17	168	384,1875	394,1875
17	169	384,2125	394,2125
17	170	384,2375	394,2375
18	171	384,2625	394,2625
18	172	384,2875	394,2875
18	173	384,3125	394,3125
18	174	384,3375	394,3375
18	175	384,3625	394,3625
18	176	384,3875	394,3875
18	177	384,4125	394,4125
18	178	384,4375	394,4375
18	179	384,4625	394,4625
18	180	384,4875	394,4875
19	181	384,5125	394,5125
19	182	384,5375	394,5375
19	183	384,5625	394,5625
19	184	384,5875	394,5875
19	185	384,6125	394,6125
19	186	384,6375	394,6375
19	187	384,6625	394,6625
19	188	384,6875	394,6875
19	189	384,7125	394,7125
19	190	384,7375	394,7375
20	191	384,7625	394,7625
20	192	384,7875	394,7875
20	193	384,8125	394,8125
20	194	384,8375	394,8375
20	195	384,8625	394,8625
20	196	384,8875	394,8875
20	197	384,9125	394,9125
20	198	384,9375	394,9375
20	199	384,9625	394,9625
20	200	384,9875	394,9875

Table 1

Division of frequency blocks into preferential between Estonia and Latvia in the frequency bands 380-385 MHz/390-395 MHz for the introduction of the TETRA System.

Frequency block number																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Table 2	EST	EST	LVA	LVA	EST	EST	LVA	LVA	EST	LVA	LVA	EST	EST	LVA	LVA	LVA	EST	EST	Table 2

Table 2

Division of preferential and DMO and AGA radio channels in the blocks 1 and 20.

Block number	Channel	Preferential channels	Block number	Channel	Preferential channels
1	1	DMO	20	191	EST
1	2	DMO	20	192	LVA
1	3	DMO	20	193	AGA
1	4	DMO	20	194	AGA
1	5	DMO	20	195	AGA
1	6	DMO	20	196	AGA
1	7	LVA	20	197	AGA
1	8	EST	20	198	AGA
1	9	LVA	20	199	AGA
1	10	EST	20	200	AGA