AGREEMENT

between the Administrations of

CROATIA, SERBIA AND MONTENEGRO and HUNGARY

concerning

allotment of preferential frequencies and co-ordination of digital land mobile systems for the emergency services in the frequency bands 380-385/390-395 MHz

1 Preamble

In the framework of the bi- or multilateral agreements dealing with frequency coordination in general the Administrations of Serbia and Montenegro, Croatia and Hungary concluded this agreement relating to the allotment of preferential frequencies and co-ordination of digital land mobile systems for the emergency services in the frequency bands 380-385/390-395 MHz according to ERC/DEC/(96)01 and ERC/DEC(01)19

2 Principles - background

- 2.1 The Administrations mentioned above deemed it necessary to conclude an agreement on the frequency use in border areas in conformity with the relevant CEPT Recommendation T/R 02-02 based on the concept of preferential frequencies.
- 2.2 The entire frequency band is divided into blocks of preferential frequencies in a way that equal access to the spectrum is ensured for each Administration.
- 2.3 In order to reduce the administrative workload concerning the great deal of coordination requests and speed up the licensing process, Administrations thought it necessary to take the responsibility for giving licences keeping the provisions laid down in this agreement without co-ordination with the neighbouring countries.
- 2.4 Operators have the opportunity to co-operate in order to achieve the most efficient use of the available spectrum in conformity with the provisions laid down in the "Agreement between Administrations concerning arrangements between operators of radiocommunications networks".
- 2.5 Unless otherwise agreed in this agreement the relevant provisions of bi- or multilateral agreements dealing with frequency co-ordination in general shall be applied.

3 Technical provisions

- 3.1 The preferential frequency distribution is given in the Annex.
- 3.2 The bands 380-385/390-395 MHz are divided into blocks of frequencies each of 50 kHz.

3.3 The centre frequency of each channel shall be derived as follows in accordance with CEPT Rec. T/R 25-08:

 $fn = 380,000 + (n \times W) - W/2$ MHz $fn' = 390,000 + (n \times W) - W/2$ MHz

where fn and fn' are centre frequencies of the mobile and the base station transmitting radio-frequency channels respectively.

W is the channel separation in MHz and n = 1,2,3...

- 3.4 The field strength produced by transmitters using preferential frequencies should not exceed 18 dB μ V/m (10% of time, 50% of locations) at 10 m above ground at a distance of 50 km inside the neighbouring country.
- 3.5 The field strength produced by transmitters using non-preferential frequencies (i.e. preferential frequencies belonging to other Administrations) should not exceed 18 dBμV/m (10% of time, 50% of locations) at 10 m above ground at the border line.
- 3.6 Each DMO (Direct Mode Operation) frequency in the bands 380,000-380,1500 MHz and 390,0000-390,1500 MHz may be used by any of the Signatory Administrations.
- 3.7 The calculation of the interfering field strength shall be based on the relevant provisions of bi- or multilateral agreements dealing with frequency co-ordination in general.

4 Administrative procedures

- 4.1 For the frequencies described under 3.4., 3.5. and 3.6. neither co-ordination nor notification is required between administrations.
- 4.2 Data of base stations will be exchanged on explicit request of any Signatory Administration.

5. Procedure in case of harmful interference

In cases of harmful interference the Administrations affected shall inform each other and endeavour to achieve mutually acceptable solutions.

6 Revision of this Agreement

This agreement can be revised in the light of administrative, regulatory or technical developments at the proposal of any Signatory Administration with the agreement of all other Signatory Administrations.

7 Withdrawal from this Agreement

Any Administration may withdraw from this Agreement by the end of a calendar month by giving notice of its intention at least six months in advance. Frequency assignments made within the framework of this Agreement prior to the date of entry into force of the withdrawal shall remain valid and be protected according to their status.

8 Language of the Agreement

This Agreement has been concluded in English in three originals.

9 Date of entry into force of the Agreement

This Agreement enters into force at the date of its signature.

For the Administration of Croatia on £.1.1.0.3./2003

For the Administration of Serbia and Montenegro on 2.1.03./2003

For the Administration of Hungary on 4.1.103../2003

(A. Dodi

Dr. Gv. Demendi

Pécs, 21st March, 2003

Preferential allotment of the frequencies in the band 380-385/390-395MHz

	COORDINATION AREAS										-			
Block	f	Centre requency (MHz)	Centre frequency (MHz)	HNG*		HNG**	HNG YUG		HNG HRV YUG		HRV YUG		HN	RV
		(arzazz)		100		YUG C(DMO)	CO	(OMC	C(1	(OMC	C(D)		C(D	
7 (a.d.	1 3	390,0250	380,0250	C(DM		C(DMO)		(OMC)	C(OMO)	C(D		C(D	
		390,0750	380,0750	C(DM		C(DMO)		(OMC)	C(DMO)	C(D		C(D	
		390,1250	380,1250	C(DM				OMO)	1	YUG		MO)		MO)
		390,1750	380,1750	C(DM		ROU		ING		IRV		RV	_	RV
	-	390,2250	380,2250	RO		ROU	_	ING	1	HNG		RV		NG
		390,2750	380,2750	RO		YUG		/UG		YUG		UG		RV
		390,3250	380,3250	HN				YUG		HRV	_	RV	1	RV
		390,3750	380,3750	HN		YUG		YUG		YUG		UG		NG
Helita		390,4250	380,4250	HN		The same of the sa		HNG		HNG		UG_		NG_
	10	390,4750	380,4750	HN		HNG		YUG		YUG		TUG		NG_
	11	390,5250	380,5250	HI		YUG		YUG	1	HRV	-	IRV		IRV_
	12	390,5750	380,5750	RC		ROU		YUG	1	YUG		TUG		IRV
	13	390,6250	380,6250	RC	DU	ROU		YUG	11	YUG		YUG		ING
10	14	390,6750	380,6750	R(C	DU_	ROU		YUG	1	YUG-		YUG		ING
7 10	15	390,7250	380,7250	R(OU	YUG		HNG	1	HRV		HRV		HRV
4	16	390,7750		H	NG	HNG	1	HNG	1	HRV		HRV		HRV
	17	390,8250		R	OU	ROU	+	HNG		HNG		HRV	1	HNG
	18			R	OU	ROU	-	YUG	1	YUG		YUG		HRV
L private C	19			H	NG	YUG	+	YUG	1	HRV		HRV		HRV
7	20				OU	YUG	+	YUG	1	YUG	W. Lake	YUG	_	HNG
	21	391,0250		H	NG	YUG	+	HNG	T	HNG		YUG		HNG
	22			0 R	OU	ROU	+	YUG	-	YUG	IS BY	YUG		HNG
	23			0 R	OU	YUG		YUG	1	HRV		HRV		HRV
	24			0 F	ROU	YUG		YUG	1	YUG	EN TO	YUG		HRV
	25			0 F	ROU	ROU		HNG	+	HNG		YUG		HNG
	20			0 I	ROU	ROU		YUG	1	YUG		YUC		HNG
	2'			50	ROU	ROU		HNG		HRV		HRV	I	HRV
-	2			50	ROU	ROU		HNG		HRV		HRY	V	HRV
		9 391,425		50	ROU	ROU		HNG		HNG	-	HRY	V	HNG
	-	0 391,475		50	ROU	ROU		YUG		YUG		YU	G	HRV
_		391,525		50	ROU	ROU		YUC		HRV		HR		HRV
-	_	391,57		50	ROU	201		HNC		HNC		HR		HNC
-		33 391,62	-1 10	50	ROU			HNC		HNC		HR		HNO
-		34 391,67			ROU	- TTT		YU(YUC		YU		HNO
-		35 391,72		250	ROU			YUC		HRY		HR		HR
-				750	ROU			YU	_	YU	The second second	YU		HR
-	_	-		250	ROU			YU		YU			JG	HN
-		37 391,82 38 391,87		381.8750		YU		YUG		YUG		YUG		HN
-		39 391,97			HNC			HN		HR		H	RV	HR
		40 391.9	-		HN(3 HN	U	III	9	-	N. A. S.			

Preferential allotment of the frequencies in the band 380-385/390-395MHz

Pécs, 21st March, 2003

¥	Centre frequency (MHz)	Centre frequency (MHz)	COORDINATION AREAS							
Block			HNG* ROU	HNG** ROU YUG	HNG YUG	HNG HRV YUG	HRV YUG	HNG ¹		
41	392,0250	382,0250	ROU	ROU	HNG	HRV	HRV	HRV		
42	392,0750	382,0750	HNG	YUG	YUG	YUG	YUG	HNG		
43	392,1250	382,1250	HNG	YUG	YUG	YUG	YUG	HRV		
44	392,1750	382,1750	ROU	YUG	YUG	HRV	HRV	HRV		
45	392,2250	382,2250	HNG	YUG	YUG	YUG	YUG	HNC		
46	392,2750	382,2750	HNG	HNG	HNG	HNG	YUG	HNC		
47	392,3250	382,3250	ROU	YUG	YUG	YUG	YUG	HNC		
48	392,3750	382,3750	HNG	YUG	YUG	HRV	HRV	HRV		
49	392,4250	382,4250	HNG	HNG	HNG	HNG	HRV	HNC		
50	392,4750	382,4750	HNG	YUG	YUG	YUG	YUG	HRV		
51	392,5250	382,5250	HNG	HNG	HNG	HRV	HRV	HRV		
52	392,5750	382,5750	HNG	YUG	YUG	YUG	YUG	HNC		
53	392,6250	382,6250	ROU	YUG	YUG	YUG	YUG	HNC		
54	392,6750	382,6750	HNG	YUG	YUG	HRV	HRV	HRV		
55	392,7250	382,7250	HNG	HNG	HNG	HNG	HRV	HNO		
56	392,7750	382,7750	HNG	HNG	HNG	HNG	YUG	HNO		
57	392,8250	382,8250	ROU	ROU	YUG	HRV	HRV	HRV		
58	392,8750	382,8750	ROU	YUG	YUG	YUG	YUG	HRV		
59	392,9250	382,9250	ROU	ROU	HNG	HRV	HRV	HRY		
60	392,9750	382,9750	HNG	HNG	HNG	HNG	HRV	HNO		
61	393,0250	383,0250	ROU	YUG	YUG	YUG	YUG	HRV		
62	393,0750	383,0750	ROU	ROU	YUG	HRV	HRV	HRV		
63	393,1250	383,1250	HNG	HNG	HNG	HNG	HRV	HNO		
64	393,1750	383,1750	ROU	ROU	HNG	HNG	YUG	HNO		
65	393,2250	383,2250	ROU	ROU	HNG	HRV	HRV	HRY		
66	393,2750	383,2750	HNG	HNG	HNG	HNG	HRV	HNO		
67	393,3250	383,3250	ROU	ROU	YUG	YUG	YUG	HRY		
68	393,3750	383,3750	ROU	YUG	YUG	HRV	HRV	HRY		
69	393,4250	383,4250	HNG	HNG	HNG	HNG	HRV	HNO		
70	393,4750	383,4750	HNG	HNG	HNG	HRV	HRV	HRY		
71	393,5250	383,5250	HNG	YUG	YUG	HRV	HRV	HRY		
72	393,5750	383,5750	HNG	HNG	HNG	HRV	HRV	HRY		
73	393,6250	383,6250	HNG	HNG	HNG	HRV	HRV	HRY		
74	393,6750	383,6750	ROU	YUG	YUG	HRV	HRV	HRY		
75	393,7250	383,7250	ROU	YUG	YUG	HRV	HRV	HRY		
76	393,7750	383,7750	HNG	HNG	HNG	HNG	HRV	HNO		
77	393,8250	383,8250	HNG	HNG	HNG	HNG	YUG	HNO		
78	393,8750	383,8750	HNG	HNG	HNG	HNG .	YUG	HŅ		
79	393,9250	383,9250	HNG	HNG	HNG	HNG ·	YUG	HNC		
	393,9750	383,9750	HNG	HNG	HNG	HNG	YUG	HNO		

Pécs, 21st March, 2003

Preferential allotment of the frequencies in the band 380-385/390-395MHz

	Centre	Centre frequency (MHz)	COORDINATION AREAS							
Block	frequency (MHz)		HNG* ROU	HNG** ROU YUG	HNG YUG	HNG HRV YUG	HRV YUG	HNG* HRV		
81	394,0250	384,0250	HNG	HNG	HNG	HNG	YUG	HNG		
82	394,0750	384,0750	HNG	HNG	HNG	HNG	YUG	HNG		
83	394,1250	384,1250	HNG	HNG	HNG	HNG	YUG	HNG		
84	394,1750	384,1750	ROU	ROU	YUG	YUG	YUG	HRV		
85	394,2250	384,2250	ROU	ROU	YUG	YUG	YUG	HRV		
86	394,2750	384,2750	ROU	ROU	YUG	YUG	YUG	HRV		
87	394,3250	384,3250	ROU	ROU	YUG	YUG	YUG	HRV		
88	394,3750	384,3750	HNG	HNG	HNG	HNG	YUG	HNG		
89	394,4250	384,4250	HNG	HNG	HNG	HNG	YUG	HNG		
90	394,4750	384,4750	HNG	HNG	HNG	HNG	YUG	HNG		
91	394,5250	384,5250	HNG	HNG	HNG	HNG	HRV	HNG		
92	394,5750	384,5750	HNG	HNG	HNG	HNG	HRV	HNG		
93	394,6250	384,6250	HNG	HNG	HNG	HNG	HRV	HNG		
94	394,6750	384,6750	HNG	HNG	HNG	HRV	HRV	HRV		
95	394,7250	384,7250	ROU	YUG	YUG	HRV	HRV	HRV		
96	394,7750	384,7750	ROU	ROU	HNG	HRV	HRV	HRV		
97	394,8250	384,8250	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA		
98	394,8750	384,8750	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA		
99	394,9250	384,9250	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA		
100	394,9750	384,9750	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA	C/AGA		
		HNG	46	31	46	31	-	46		
PREFER	ENTIAL	ROU	46	31	-		-			
BLOCKS R	ELATING	YUG		31	46	31	46	-		
TO)	HRV	-		-	31	46	46		
ADMINIST	RATIONS	С	8	7	8	7	8	8		
		SUM	100	100	100	100	100	100		

C - Common blocks
DMO - Direct Mode Operation
AGA - Air-Ground-Air
* existing agreement

^{**} proposal