

# **AGREEMENT**

**between the Administrations of**

**CROATIA,  
SERBIA AND MONTENEGRO  
and HUNGARY**

**concerning**

**allotment of preferential frequencies  
and co-ordination of GSM 900 systems in the frequency  
bands 890 – 915/ 935 - 960 MHz**

Pécs, 21<sup>st</sup> March, 2003

## 1 Preamble

In the framework of the bi- or multilateral agreements dealing with frequency co-ordination 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 the systems using GSM 900 standards in the frequency band 890-915 MHz paired with 935-960 MHz.

## 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 20-08 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 co-ordination 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 The relevant provisions of the bi- or multilateral agreements dealing with frequency co-ordination in general shall apply unless otherwise laid down in this agreement.

## 3 Technical provisions

- 3.1 The preferential frequency distribution is given in Annex 1.
- 3.2 The table of frequencies corresponding to channel numbering is given in Annex 2.
- 3.3 The field strength produced by transmitters using **preferential frequencies** shall not exceed 19 dB $\mu$ V/m (10% of time, 50% of locations) at 3m above ground at a distance of 15 km inside the neighbouring country.
- 3.4 The field strength produced by transmitters using **non-preferential frequencies** (i.e. preferential frequencies belonging to other Administrations) shall not exceed 19 dB $\mu$ V/m (10% of time, 50% of locations) at 3m above ground at the border line.
- 3.5 The calculation of the interfering field strength shall be based on Recommendation T/R 20-08 and the relevant provisions of bi- or multilateral agreements dealing with frequency co-ordination in general.
- 3.6 Operators may make arrangements to use frequencies in a different way according to the respective „Agreement between Administrations concerning arrangements between operators of radiocommunications networks“.
- 3.7 All channels in the allotted frequency blocks shall be considered as preferential ones. In case of harmful interference between stations using block end channels in the border area, the lowest channel in a preferential frequency block allotted to a

country will be considered as non-preferential one at the station(s) involved in the harmful interference situation, except for the channel 1 (890.200/935.200 MHz).

#### 4 Administrative procedures

- 4.1 For the frequencies described under § 3.3, 3.4, 3.6 and 3.7 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.

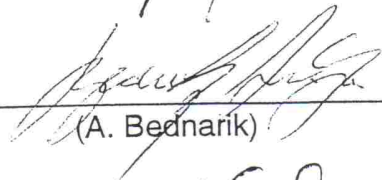
#### 9 Date of entry into force of the Agreement

This Agreement enters into force at the date of its signature and shall be performed not later than within 60 days.

For the Administration of Croatia  
on 2.1.10.3./2003

  
\_\_\_\_\_  
(A. Docić)

For the Administration of  
Serbia and Montenegro  
on 2.1.10.3./2003

  
\_\_\_\_\_  
(A. Bednarik)

For the Administration of Hungary  
on 2.1.10.3./2003

  
\_\_\_\_\_  
(Dr. Gy. Demendi)

### Distribution of preferential channels per country



#### HNG/HRV/YUG

HNG 40, HRV 40, YUG 39



#### HRV/YUG

HRV 59, YUG 60



Country/case	Distribution of preferential channels per country		
	HNG	HRV	YUG
HNG/HRV/YUG 21-33, 46-59, 101-104, 111-119	40	40	39
HRV/YUG	/		60
	1-11, 22-29, 51-59, 64-83, 94-104	1-13, 64-83, 94-100	14-20, 34-45, 60-63, 84-93, 105-110



Table of frequency

Ch. NO	Frequency		Ch. NO	Frequency		Ch. NO	Frequency	
1	890.2	935.2	41	898.2	943.2	81	906.2	951.2
2	890.4	935.4	42	898.4	943.4	82	906.4	951.4
3	890.6	935.6	43	898.6	943.6	83	906.6	951.6
4	890.8	935.8	44	898.8	943.8	84	906.8	951.8
5	891.0	936.0	45	899.0	944.0	85	907.0	952.0
6	891.2	936.2	46	899.2	944.2	86	907.2	952.2
7	891.4	936.4	47	899.4	944.4	87	907.4	952.4
8	891.6	936.6	48	899.6	944.6	88	907.6	952.6
9	891.8	936.8	49	899.8	944.8	89	907.8	952.8
10	892.0	937.0	50	900.0	945.0	90	908.0	953.0
11	892.2	937.2	51	900.2	945.2	91	908.2	953.2
12	892.4	937.4	52	900.4	945.4	92	908.4	953.4
13	892.6	937.6	53	900.6	945.6	93	908.6	953.6
14	892.8	937.8	54	900.8	945.8	94	908.8	953.8
15	893.0	938.0	55	901.0	946.0	95	909.0	954.0
16	893.2	938.2	56	901.2	946.2	96	909.2	954.2
17	893.4	938.4	57	901.4	946.4	97	909.4	954.4
18	893.6	938.6	58	901.6	946.6	98	909.6	954.6
19	893.8	938.8	59	901.8	946.8	99	909.8	954.8
20	894.0	939.0	60	902.0	947.0	100	910.0	955.0
21	894.2	939.2	61	902.2	947.2	101	910.2	955.2
22	894.4	939.4	62	902.4	947.4	102	910.4	955.4
23	894.6	939.6	63	902.6	947.6	103	910.6	955.6
24	894.8	939.8	64	902.8	947.8	104	910.8	955.8
25	895.0	940.0	65	903.0	948.0	105	911.0	956.0
26	895.2	940.2	66	903.2	948.2	106	911.2	956.2
27	895.4	940.4	67	903.4	948.4	107	911.4	956.4
28	895.6	940.6	68	903.6	948.6	108	911.6	956.6
29	895.8	940.8	69	903.8	948.8	109	911.8	956.8
30	896.0	941.0	70	904.0	949.0	110	912.0	957.0
31	896.2	941.2	71	904.2	949.2	111	912.2	957.2
32	896.4	941.4	72	904.4	949.4	112	912.4	957.4
33	896.6	941.6	73	904.6	949.6	113	912.6	957.6
34	896.8	941.8	74	904.8	949.8	114	912.8	957.8
35	897.0	942.0	75	905.0	950.0	115	913.0	958.0
36	897.2	942.2	76	905.2	950.2	116	913.2	958.2
37	897.4	942.4	77	905.4	950.4	117	913.4	958.4
38	897.6	942.6	78	905.6	950.6	118	913.6	958.6
39	897.8	942.8	79	905.8	950.8	119	913.8	958.8
40	898.0	943.0	80	906.0	951.0			