

TECHNICAL AGREEMENT

between the Administrations of

**AUSTRIA
CROATIA,
HUNGARY
and SLOVENIA**

**on the frequency coordination in the frequency bands
876 – 880/921 – 925 MHz
(GSM-R)**

1 Preamble

In the framework of the "HCM Agreement (Vilnius 2005)" the Administrations of Austria, Croatia, Hungary and Slovenia concluded this agreement for the purpose of the frequency coordination for GSM-R systems in the frequency band 876 – 880/921 – 925 MHz. The relevant provisions of the "HCM Agreement (Vilnius 2005)" and ECC REC/(05)08 shall be applied unless otherwise laid down in this agreement

2 Principles – background

- 2.1 The Administrations mentioned above deemed it necessary to conclude an agreement on the allotment of the preferential frequencies for GSM-R systems in the frequency band 876 – 880/921 – 925 MHz. The channel arrangement used in this agreement is according to ECC/DEC/(02)05.
- 2.2 Operators shall have the possibility to cooperate in order to minimize interference and to achieve the most efficient use of the available spectrum.

3 Technical provisions

- 3.1 The preferential frequency division is given in Annex.
- 3.2 Preferential frequencies may be used without coordination with a neighbouring country if the field strength of each carrier produced by the base station does not exceed 19 dB μ V/m (*10% of time, 50% of locations*) at a height of 3m above ground at a distance of 15 km inside the neighbouring country.
- 3.3 Non-preferential frequencies may be used without coordination with a neighbouring country if the field strength of each carrier produced by the base station does not exceed 19 dB μ V/m (*10% of time, 50% of locations*) at a height of 3m above ground at the border line.
- 3.4 Operators may make arrangements to use frequencies in a different way according to the respective „Agreement between Administrations concerning the approval of arrangements between operators of radiocommunications networks“.

4 Exchange of information

Notifications 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 four originals.

9 Date of entry into force of the Agreement

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

For the Administration of Austria
on/...../2007

Walter



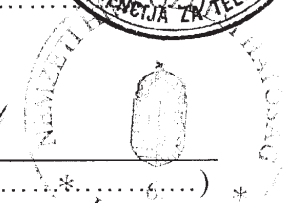
For the Administration of Croatia
on 13.1.06./2007

bilje Kukulj



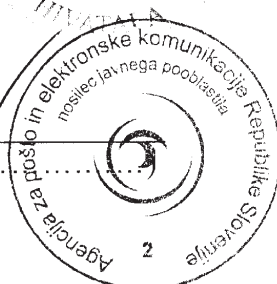
For the Administration of Hungary
on 25.1.07./2007

Asz



For the Administration of Slovenia
on 19.1.7./2007

Uršič



Preferential frequency partitioning in the GSM-R bands

Center freq. (MHz)	Channel spacing (kHz)	Block nr	AUT/SVN*	AUT/HNG/SVN*	AUT/HRV/SVN	HNG/SVN	HNG/HRV/SVN	HRV/SVN	HRV/HNG	Duplex freq. (MHz)
876,0125	12,5	D1	DMO							
876,0250	12,5	D2	DMO							
876,0375	12,5	D3	DMO							
876,0500	12,5	D4	DMO							
876,0625	12,5	D5	DMO							
876,2000	200	1	AUT	AUT	AUT	SVN	HRV	HRV	HRV	921,2000
876,4000	200	2	AUT	AUT	AUT	HNG	HRV	HRV	HRV	921,4000
876,6000	200	3	SVN	HNG	HRV	HNG	HNG	SVN	HNG	921,6000
876,8000	200	4	AUT	AUT	AUT	SVN	HRV	HRV	HRV	921,8000
877,0000	200	5	SVN	HNG	HRV	HNG	HNG	SVN	HNG	922,0000
877,2000	200	6	AUT	AUT	AUT	HNG	HRV	HRV	HRV	922,2000
877,4000	200	7	AUT	AUT	AUT	SVN	HRV	HRV	HRV	922,4000
877,6000	200	8	SVN	HNG	HRV	HNG	HNG	SVN	HNG	922,6000
877,8000	200	9	SVN	SVN	SVN	SVN	SVN	SVN	HNG	922,8000
878,0000	200	10	AUT	AUT	AUT	HNG	HRV	HRV	HRV	923,0000
878,2000	200	11	AUT	HNG	HRV	HNG	HNG	HRV	HNG	923,2000
878,4000	200	12	SVN	SVN	SVN	SVN	SVN	SVN	HRV	923,4000
878,6000	200	13	SVN	HNG	HRV	HNG	HNG	SVN	HNG	923,6000
878,8000	200	14	AUT	HNG	AUT	HNG	HNG	HRV	HNG	923,8000
879,0000	200	15	SVN	SVN	SVN	SVN	SVN	SVN	HNG	924,0000
879,2000	200	16	SVN	SVN	SVN	SVN	SVN	SVN	HNG	924,2000
879,4000	200	17	AUT	AUT	HRV	HNG	HRV	HRV	HRV	924,4000
879,6000	200	18	SVN	SVN	SVN	SVN	SVN	SVN	HRV	924,6000
879,8000	200	19	SVN	SVN	SVN	SVN	SVN	SVN	HRV	924,8000
880,0000	200	20	Guard							925,0000

* existing agreement