

AGREEMENT

between the Administrations of
Croatia, Hungary, Romania,
Slovenia and Ukraine

on the frequency coordination for
fixed wireless systems
in the bands
24.549 – 25.053 GHz and 25.557 – 26.061 GHz

Budapest, 21 October 2005

26 GHz Agreement

1 Introduction

In the framework of the bi- or multilateral agreements dealing with frequency coordination in general, the Telecommunication Administrations of Croatia, Hungary, Romania, Slovenia and Ukraine concluded this agreement for the purpose of the frequency coordination for the fixed wireless systems in the frequency bands 24.549 - 25.053 GHz paired with 25.557 - 26.061 GHz. The relevant provisions of the general bi- or multilateral agreements dealing with frequency coordination (e.g. Berlin Agreement) in general shall apply 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 division of preferential frequencies for fixed wireless systems using FDD technology only. The channel arrangement used in the agreement is in conformity with CEPT Recommendation T/R 13-02 Annex B. The use of the frequency bands shall be in accordance with ERC Recommendation (00)05 for FDD systems. These frequency bands may also be used for point-to-point systems as deemed appropriate by each Administration.
- 2.2 Preferential frequencies are frequencies which can be assigned by Administrations concerned without any coordination, provided that the provisions laid down in Paragraph 3.2 or 3.3 of this agreement are fulfilled.
- 2.3 Non-preferential frequencies are frequencies which can be assigned by Administrations concerned without any coordination, provided that the provisions laid down in Paragraph 3.4 or 3.5 of this agreement are fulfilled.
- 2.4 All other cases shall be coordinated.
- 2.5 Notifications for assignments are not necessary unless required by the procedure mentioned in paragraph 4.
- 2.6 The entire band 24.549 - 25.053 GHz paired with 25.557 - 26.061 GHz is divided into blocks of preferential frequencies in a way that equal access to the spectrum is ensured for each Administration. The frequency partitioning as outlined in this agreement may, however, be subject to bi- or multilateral accommodations negotiated on a case by case basis in the event that the actual frequency demand in particular border areas of the countries concerned requires modification of the frequency partitioning.
- 2.7 Operators shall have the possibility to co-operate in order to minimise interference and to achieve the most efficient use of the available spectrum. Such agreements between operators shall be subject to confirmation by the Administrations concerned.

3 Technical provisions

- 3.1 The preferential frequency division is described in the Annex.

- 3.2 Transmitters of point-to-multipoint* systems using preferential frequencies may produce a spectral power flux density (pfd) not exceeding $-105 \text{ dBW}/(\text{MHz.m}^2)$ at a distance of 15 km inside the neighbouring country.
 - 3.3 Transmitters in point-to-point links using preferential frequencies may produce a spectral power flux density (pfd) not exceeding $-115 \text{ dBW}/(\text{MHz.m}^2)$ at a distance of 25 km inside the neighbouring country.
 - 3.4 Transmitters of point-to-multipoint* systems using non-preferential frequencies may produce a spectral power flux density (pfd) not exceeding $-105 \text{ dBW}/(\text{MHz.m}^2)$ at the border line .
 - 3.5 Transmitters in point-to-point links using non-preferential frequencies may produce a spectral power flux density (pfd) not exceeding $-115 \text{ dBW}/(\text{MHz.m}^2)$ at the border line .
 - 3.6 The calculation of the interfering spectral pfd shall be based on the Recommendation ITU-R P.452-12 on the basis of free space propagation and an atmospheric attenuation of 0.21 dB/km.
 - 3.7 The above mentioned pfd values and the calculation of interference are provisional, and should be revised in accordance with relevant ECC documents to be developed or on the basis of practical experiences of the signatory administrations.
 - 3.8 In case of multiple interferers at any point of the interference contour the resulting interfering signal shall be derived by summing up the contributing pfd values.
- * Point-to-multipoint systems do not refer to a set of point-to-point links concentrating in the same node.

4 Procedure in case of harmful interference

- 4.1 In cases of harmful interference the Administrations affected shall inform each other and endeavour to mutually find solutions.
- 4.2 For exchange of data between Administrations the technical parameters as described in the general bi- or multilateral agreements in force shall be used.

5 Revision of this Agreement

- 5.1 The text of this Agreement can be revised in light of administrative, regulatory or technical developments at the proposal of any Signatory Administration with the agreement of all other Signatory Administrations required.
- 5.2 The revision of the preferential distribution annexed to this Agreement may be done with the agreement of the affected administrations. All the signatory administrations shall be informed about the approved changes.

6 Languages of the Agreement

This Agreement has been concluded in English.

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 notified 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 Date of entry into force

This agreement enters into force for each administration at the date of its signature , pending approval within 3 months if necessary according to the national legislation.

For the Administration of Croatia



Željko TABAKOVIĆ

For the Administration of Hungary



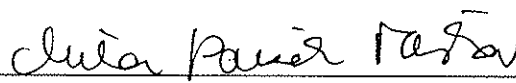
Dr. Emília ULELAY

For the Administration of Romania



Adrian IONESCU

For Administration of Slovenia



Meta PAVSEK TASKOV

For the Administration of Ukraine



Maryna BOLTS

Handwritten signatures and initials:
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**PREFERENTIAL FREQUENCY DISTRIBUTION
 IN THE 26 GHz BAND**

28 MHz channels		Zone									
Channel number	Center frequency lower band [MHz]	Center frequency upper band [MHz]	HNG-UKR*	ROU-UKR	HNG-ROU-UKR	HNG-ROU	HNG-HRV	HNG-HRV-SVN	HRV-SVN	HNG-SVN*	
			1	24563	25571	UKR	UKR	UKR	ROU	HRV	HRV
2	24591	25599	UKR	ROU	ROU	ROU	HRV	HRV	SVN	SVN	
3	24619	25627	HNG	UKR	HNG	HNG	HNG	HNG	SVN	HNG	
4	24647	25655	HNG	ROU	HNG	HNG	HNG	HNG	HRV	HNG	
5	24675	25683	UKR	UKR	UKR	ROU	HNG	SVN	SVN	SVN	
6	24703	25711	UKR	ROU	ROU	ROU	HRV	HRV	HRV	SVN	
7	24731	25739	HNG	ROU	HNG	HNG	HNG	HNG	HRV	HNG	
8	24759	25767	HNG	UKR	HNG	HNG	HNG	SVN	SVN	SVN	
9	24787	25795	UKR	UKR	UKR	ROU	HRV	HRV	HRV	HNG	
10	24815	25823	HNG	ROU	HNG	HNG	HNG	HNG	HRV	HNG	
11	24843	25851	HNG	ROU	ROU	ROU	HRV	HRV	HRV	SVN	
12	24871	25879	UKR	UKR	UKR	HNG	HRV	SVN	SVN	SVN	
13	24899	25907	HNG	ROU	ROU	ROU	HNG	HNG	SVN	HNG	
14	24927	25935	HNG	ROU	ROU	ROU	HRV	HRV	HRV	SVN	
15	24955	25963	HNG	UKR	HNG	HNG	HRV	SVN	SVN	SVN	
16	24983	25991	UKR	UKR	UKR	HNG	HNG	HNG	SVN	HNG	
17	25011	26019	UKR	UKR	UKR	HNG	HNG	HRV	HRV	HNG	
18	25039	26047	UKR	ROU	ROU	ROU	HRV	SVN	SVN	SVN	

* Existing agreement

Provisional change of the channels. This version will be confirmed by correspondence.