

AGREEMENT

between Administrations of
Bosnia and Herzegovina and Croatia

on the frequency coordination for
Broadband Wireless Access (BWA) systems
in the bands
3410 – 3500 MHz and 3510 – 3600 MHz

Sarajevo, 04 November 2009

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1 Introduction

In the framework of the bilateral agreement dealing with frequency coordination in general the Communication Administrations of Bosnia and Herzegovina and Croatia concluded this Agreement for the purpose of the frequency coordination for Broadband Wireless Access (BWA) systems in the frequency band 3410 – 3500 MHz paired with 3510 – 3600 MHz. The relevant provisions of the general bilateral agreement dealing with frequency coordination 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 BWA systems using FDD technology only. The channel arrangement used in this Agreement is in conformity with CEPT/ERC/REC 14-03 Annex B1.

The Recommendation ECC/REC/(04)05 recommends that systems with uplink band (terminal to central station) 3410-3500 MHz and downlink band (central station to terminal) 3510-3600 MHz should be used.

Therefore, this Agreement is applicable for systems with uplink band (terminal to central station) 3410-3500 MHz and downlink band (central station to terminal) 3510-3600 MHz.

- 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 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 3.3 of this Agreement are fulfilled.
- 2.4 All other cases shall be coordinated in line with relevant international regulation.
- 2.5 Notifications for the central stations are not necessary unless required by the procedure mentioned in Paragraph 4 of this Agreement.
- 2.6 The entire frequency band 3410 – 3500 MHz paired with 3510 – 3600 MHz 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.

3 Technical provisions

- 3.1 The preferential frequency division is described in the Annex of this Agreement.
- 3.2 Transmitters using preferential frequencies may produce a spectral power flux density (pfd) not exceeding $-122\text{dBW}/(\text{MHz}\cdot\text{m}^2)$ at a distance of 15 km in the neighbouring country.
- 3.3 Transmitters using non-preferential frequencies may produce a spectral power flux density (pfd) not exceeding $-122\text{dBW}/(\text{MHz}\cdot\text{m}^2)$ at the border to the neighbouring country.
- 3.4 The calculation of the interfering spectral pfd shall be based on the Recommendation ITU-R P.452-13 for free space propagation taking into account an additional statistical loss of 15 dB for the calculation to consider the influence of topography and morphology.
- 3.5 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.
- 3.6 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.

4 Procedure in case of harmful interference

- 4.1 In cases of harmful interference the Administrations affected shall inform each other and endeavour to achieve a mutually satisfactory solution.
- 4.2 In cases of harmful interference all necessary technical parameters shall be exchanged between Administrations.

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 the other Signatory Administration required.
- 5.2 The revision of the preferential distribution annexed to this Agreement may be done with the agreement of the Signatory Administrations.

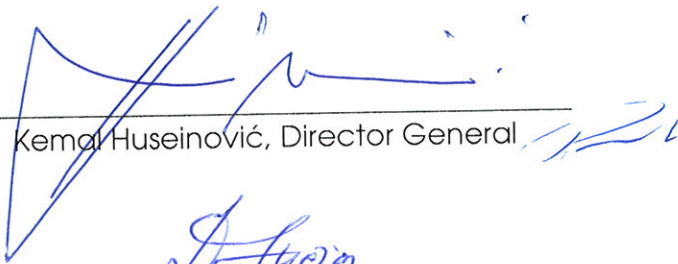
6 Language of the Agreement

This Agreement has been concluded in English language in two originals.

7 Date of entry into force of the Agreement

This Agreement enters into force at the date of signature.

On behalf of the Administration
of Bosnia and Herzegovina



Kemal Huseinović, Director General

On behalf of the
Administration of Croatia



Dražen Lučić, Executive Director

7 MHz channels			
Channel number	Center frequency		BIH/HRV
	lower band [MHz]	upper band [MHz]	
1	3413,5	3513,5	BIH
2	3420,5	3520,5	HRV
3	3427,5	3527,5	BIH
4	3434,5	3534,5	HRV
5	3441,5	3541,5	HRV
6	3448,5	3548,5	BIH
7	3455,5	3555,5	HRV
8	3462,5	3562,5	HRV
9	3469,5	3569,5	BIH
10	3476,5	3576,5	BIH
11	3483,5	3583,5	HRV
12	3490,5	3590,5	BIH