

AGREEMENT

**BETWEEN THE ADMINISTRATIONS OF
FRANCE AND GERMANY**

**ON FREQUENCY PLANNING AND FREQUENCY
COORDINATION AT BORDER AREAS FOR
TERRESTRIAL SYSTEMS CAPABLE OF
PROVIDING ELECTRONIC COMMUNICATIONS
SERVICES**

**IN THE FREQUENCY BAND
790 - 862 MHz**

Maisons-Alfort, 15th April 2011

1. INTRODUCTION

The frequency band 790 - 862 MHz is designated for terrestrial systems capable of providing electronic communications services according to the Decision of the European Commission of 6 May 2010 on harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (2010/267/EU).

This Agreement is based on the principles of frequency planning and frequency coordination as laid down in ECC Recommendation (11)04.

The Administrations of France and Germany have agreed on the following coordination procedures.

2. PRINCIPLES OF FREQUENCY PLANNING AND FREQUENCY COORDINATION AT BORDER AREAS

Frequency coordination at border areas is necessary to ensure efficiency spectrum use and equal access to spectrum in the border areas. The following principles apply:

- Frequency coordination with a neighbouring country is not necessary if the mean field strength does not exceed the field strength limits provided in paragraph 3. Coordination of stations exceeding the specified field strength as defined in paragraph 3 is not desirable.
- Field strength values are defined within a reference frequency block of 5 MHz.
- The field strength calculations shall take into account the sum of all signals radiated from the respective antenna sector within the reference frequency block. The respective field strength values for each signal should be applied by each antenna sector and can be deduced by reducing the limit proportionally to the bandwidth portions falling into the reference frequency block (reduction factor = $10 \times \log(\text{frequency block portion} / 5 \text{ MHz})$).

3. PROVISIONS FOR COORDINATION

The frequency band 790 – 862 MHz is typically used for FDD systems. The duplex spacing shall be 41 MHz. The base station transmissions (down link) are located in the lower part of the band starting at 791 MHz and finishing at 821 MHz and terminal station transmissions (up link) are located in the upper part of the band starting at 832 MHz and finishing at 862 MHz.

3.1. Maximum field strength in cases where only FDD systems are used

Base stations of FDD systems may be operated if the produced field strength at a height of 3 m above ground does not exceed the value of 59 dB μ V/m in the reference bandwidth of 5 MHz at the border line, and does not exceed the value of 41 dB μ V/m in the reference bandwidth of 5 MHz at a line of 6 km beyond the border.

3.2. Maximum field strength in cases where TDD systems are used

Base stations of TDD systems may be operated if the produced field strength at a height of 3 m above ground does not exceed the value of 15 dB μ V/m in the reference bandwidth of 5 MHz at the border line.

3.3. The use of LTE systems in border areas

In order to ensure the optimum network performance between LTE systems deployed in the border areas, the two administrations shall ensure that operators will not use the same PCI group for LTE signals using the same centre frequency in bordering areas in accordance with ECC Recommendation (11)04.

4. TRANSITORY PROVISION RELATED TO THE MILITARY TRAINING CAMP OF BITCHE

Until 1st July 2015, the field strength from any base station transmitting in the frequency band 804,385-830,305 MHz at a height of 1.5 m above ground shall not exceed 28 dBµV/m/MHz at any of the following test points:

- Point 1 : 7°30'29"E - 49°05'55"N
- Point 2 : 7°31'45"E - 49°06'08"N
- Point 3 : 7°32'11"E - 49°05'44"N
- Point 4 : 7°32'27"E - 49°05'28"N
- Point 5 : 7°33'25"E - 49°05'01"N
- Point 6 : 7°33'02"E - 49°04'42"N

5. OPERATOR ARRANGEMENTS

The establishment of arrangements between operators shall be encouraged to the extent possible.

The provisions laid down in the "Agreement between the administrations of Belgium, France, Germany, Luxembourg, the Netherlands and Switzerland concerning the approval of arrangements between operators of mobile radio communications networks" done at Saint-Dié on 17th October 2001 shall be applicable to the 790 – 862 MHz band.

6. FIELD STRENGTH PREDICTION

For the field strength calculations the tool of the HCM Agreement shall be applied. Time probability in all calculations is 10 %.

7. REVISION OF THE AGREEMENT

This Agreement may be modified at the request of one of the Signatory Administrations where such a modification becomes necessary in the light of administrative, regulatory or technical developments.

The technical characteristics may be reviewed in the light of practical experience of its application and of the operation of terrestrial systems capable of providing electronic communications services in general.

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8. WITHDRAWAL FROM THE AGREEMENT

Any Administration may withdraw from this Agreement subject to six months notice.

9. LANGUAGE OF THE AGREEMENT

This Agreement has been concluded in English.

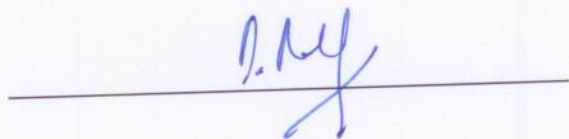
One original version of this Agreement is handed over to each Signatory Administration and a copy is submitted to the Managing Administration of the HCM Agreement.

10. DATE OF ENTRY INTO FORCE

The date of entry into force is the date of signature.

Done in Maisons-Alfort on 15th April 2011

For FRANCE
Agence nationale des fréquences
D.J. Rolfo



For GERMANY
Bundesnetzagentur
E. Zilles

