

## **AGREEMENT**

**BETWEEN THE ADMINISTRATIONS OF  
AUSTRIA, GERMANY, LIECHTENSTEIN  
AND SWITZERLAND**

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

**IN THE FREQUENCY BANDS  
880–915 MHz PAIRED WITH 925–960 MHz  
AND  
1710–1785 MHz PAIRED WITH 1805–1880 MHz**

**VIENNA, 28 OCTOBER 2015**

## 1. INTRODUCTION

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The frequency bands 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz are designated for terrestrial systems capable of providing pan-European electronic communication services

- For Austria, Germany and Liechtenstein according to the Decision of the European Commission implementing Decision of 18 April 2011 amending Decision 2009/766/EC on the harmonisation of the 900 MHz and 1800 MHz frequency bands for terrestrial systems capable of providing electronic communications services in the Community (2011/251/EU)
- For Switzerland according to the national frequency allocation table as approved by the Federal Council

The Administrations of Austria, Germany, Liechtenstein and Switzerland 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 efficient spectrum usage and equal spectrum access in the border areas. This agreement is based on the principle of frequency planning and frequency coordination as laid down in ECC-Recommendation (08)02 revised in 2012.

The following principles apply:

2.1 Stations using GSM technology will be coordinated according to the Agreements in place.

2.2 Stations using FDD broadband technologies (e.g. UMTS, LTE, WiMAX) may be used without coordination with a neighbouring country if the mean field strength produced by the base station does not exceed a value of:

a. In the frequency band 925-960 MHz:

59 dB $\mu$ V/m/5MHz at a height of 3 m above ground at the border line between two countries and 41 dB $\mu$ V/m/5MHz at a height of 3 m above ground at a distance of 6 km inside the neighbouring country.

b. In the frequency band 1805-1880 MHz:

65 dB $\mu$ V/m/5MHz at a height of 3 m above ground at the border line between two countries and 47 dB $\mu$ V/m/5MHz at a height of 3 m above ground at a distance of 6 km inside the neighbouring country.

- 2.3 In order to ensure optimum network performance between UMTS systems deployed in the border areas administrations shall encourage operators to use the code groups provided in the relevant annex of ECC/REC(08)02.
- 2.4 In order to ensure optimum network performance between LTE systems deployed in the border areas administrations shall encourage operators to coordinate the use of PCI code groups and other radio parameters in accordance with the relevant annex of ECC/REC(08)02, for LTE signals using the same centre frequency in border areas.

### **3. OPERATOR ARRANGEMENTS**

The establishment of arrangements between operators shall be allowed to the maximum extent possible within the framework laid down in the latest version of the *“Agreement between the Administrations of Austria, Germany, Liechtenstein and Switzerland concerning the approval of arrangements between operators of terrestrial systems capable of providing electronic communications services”*.

### **4. FIELD STRENGTH PREDICTION**

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

### **5. REVISION OF THE AGREEMENT**

With the consent of the other Administrations this Agreement may be modified on request of one of the Signatory Administrations where such 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.

### **6. WITHDRAWAL FROM THE AGREEMENT**

Any Administration may withdraw from this Agreement subject to 12 month notice.

## **7. WITHDRAWAL OF EXISTING AGREEMENTS** *Innovation und Telekommunikation*

The existing Agreement between Austria and Germany “*Agreement between the Administrations of AUSTRIA and GERMANY on frequency planning and frequency coordination at border areas for terrestrial systems capable of providing electronic communications services in the frequency bands 880–915 MHz paired with 925–960 MHz and 1710–1785 MHz paired with 1805–1880 MHz, Warsaw 23 April 2013*” is withdrawn.

## **8. LANGUAGE OF THE AGREEMENT**

This Agreement has been concluded in the English language.

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.

## 9. DATE OF ENTRY INTO FORCE

This Agreement shall enter into force at the date of its signature.

Done at Vienna on 28 October 2015

Bundesnetzagentur  
(DEUTSCHLAND)  
(Tobias Schnetzer)



Amt für Kommunikation  
(LIECHTENSTEIN)  
(Kurt Bühler)



Bundesministerium für Verkehr,  
Innovation und Technologie  
(ÖSTERREICH)  
(Franz Ziegelwanger)



Bundesamt für Kommunikation  
(SCHWEIZ)  
(Konrad Vonlanthen)

