AGREEMENT

BETWEEN THE ADMINISTRATIONS OF AUSTRIA and THE CZECH REPUBLIC

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

IN THE FREQUENCY BANDS 791 - 821 MHz and 832 - 862 MHz

Geneva, 13th February 2012
1 - INTRODUCTION

The frequency bands 791 - 821 MHz and 832 - 862 MHz are designated for terrestrial systems capable of providing electronic communications services according to


2 - PRINCIPLES OF FREQUENCY PLANNING AND FREQUENCY USAGE AT BORDER AREAS

The administrations of Austria and the Czech Republic have agreed on the following frequency planning and frequency usage procedures based on the concept of equal access probability. This concept enables equitable coverage for two or more networks using the same frequency band with the same or different digital technologies in geographically adjacent areas without coordination. Operation of stations in the respective border area exceeding the specified field strength values after performing traditional frequency coordination would disturb the balance in the respective area and is therefore not desirable.

The following principles apply to frequency utilisation by terrestrial systems capable of providing electronic communications services in geographically adjacent areas in cases where concerned administrations agree to use the concept of equal access probability:

- Field strength values are defined inside 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 x log (bandwidth portion / 5 MHz)).

In order to assure equitable coverage and equal access probability to the spectrum in border areas even with different transmission technologies, and to enhance the efficiency of spectrum usage, the principles and field strength limits as given in chapter 3 of this agreement shall be respected by all network operators concerned.
3 - TECHNICAL CHARACTERISTICS

These frequency bands are parts of the "Digital Dividend".

The mode of operation shall be frequency division duplex (FDD) with the following arrangements: The duplex spacing shall be 41 MHz with base station transmission (down link) located in the lower part of the band starting at 791 MHz and finishing at 821 MHz and terminal station transmission (up link) located in the upper part of the band starting at 832 MHz and finishing at 862 MHz.

Base stations may be operated if the produced field strength at a height of 3 m above ground does not exceed the value of 55 dBμV/m in the reference bandwidth of 5 MHz at the border line, and does not exceed the value of 29 dBμV/m in the reference bandwidth of 5 MHz at a line of 9 km beyond the border.

4 - OPERATOR ARRANGEMENTS

To further improve the compatibility of terrestrial systems capable of providing electronic communications services in border areas, operators may conclude additional arrangements such as:

- preferential frequency distribution arrangements
- preferential code division arrangements (e.g. according to ERC/REC(01)01)
- frequency carrier definitions (e.g. according to ECC/REC/(11)04)
- synchronisation of concerned networks

Such operator arrangements

- shall only be valid as long as all participating operators hold exclusive rights for concerned frequencies
- shall not impose disadvantages on other operators
- should respect field strength levels and provisions given by relevant documents (e.g. ECC recommendations)
- are subject to prior consent of the administrations concerned

5 - FIELD STRENGTH PREDICTION

For the field strength calculations the tool of the HCM Agreement shall be applied. Time probability in all calculations is 10 %
6 - REVISION OF THE AGREEMENT

With the consent of the other administrations, 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.

7 - WITHDRAWAL FROM THE AGREEMENT

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

8 - 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.

9 - DATE OF ENTRY INTO FORCE

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

For Austria

[Signature]

For the Czech Republic

[Signature]