

**MEMORANDUM OF UNDERSTANDING ON  
FREQUENCY COORDINATION BETWEEN  
THE REPUBLIC OF IRELAND  
AND  
THE UNITED KINGDOM  
FOR WIRELESS ACCESS SERVICES  
IN THE FREQUENCY BAND  
3400 TO 3800 MHz**

## **1. INTRODUCTION**

- 1.1. This memorandum describes the procedures for the coordination of Wireless Access<sup>1</sup> (WA) radio services between the Republic of Ireland (ROI) and the United Kingdom (UK) in the frequency bands 3400 to 3800 MHz.
- 1.2. Services other than Wireless Access are not covered by this agreement.
- 1.3. Ofcom is the Administration of the United Kingdom responsible for all relations with Ireland concerning this MoU.
- 1.4. The Commission for Communications Regulation is the Administration of the ROI responsible for all relations with the UK concerning this MoU.
- 1.5. Accordingly, the Administrations of the UK and the ROI have agreed the following co-ordination procedures.
- 1.6. The co-ordination procedure, is based on the principle of equitable access to the spectrum resource

## **2. CRITERIA FOR COORDINATION**

- 2.1. A station may be established without co-ordination, provided that the predicted power spectral density (PSD) produced by the station, at a height of 10m above ground at 15km from the border of the border or coast line of the neighbouring country does not exceed 24 dB $\mu$ V/m in a bandwidth of 1MHz (equivalent to an aperture power of -122 dBW/MHz/m<sup>2</sup>).
- 2.2. In the case of time division duplex technology the interference power shall be the power, during the active part of the signal, in the stated bandwidth.

## **3. PREDICTION OF PROPAGATION**

The field prediction method shall be according to the current version of Recommendation ITU-R P.452<sup>2</sup> which shall be applied as follows:

- 10% of the time

Taking account of:

- Height of the receiver antenna set at 10 m above ground.
- Terrain profile for the base station in all main directions
- Type of terrain (e.g. land, sea, mixed path)
- Effective radiated field strength
- Antenna tilt and azimuth

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<sup>1</sup> Recommendation ITU R F 1399 Vocabulary of terms for Wireless Access

<sup>2</sup> Recommendation ITU-R P.452, Prediction procedures for the evaluation of microwave interference, between stations on the surface of the earth at frequencies above about 0.7 GHz.

## **4. CO-ORDINATION PROCEDURE**

- 4.1. The Administration of the ROI and the UK are committed to ensuring that the licensees covered by this Memorandum of Understanding, respect the limits for establishment of base stations without co-ordination, given in 2 above. However, there might be an occasional need to establish stations such that the PSD will exceed the limits given in 2 above. In such cases, each administration may seek co-ordination according to paragraph 4.
- 4.2. Receive stations in a neighbour country shall not claim protection from interference from transmit stations that operate such that the signal level in a neighbour country is less than the trigger level described in this MoU or are coordinated according to this MoU.

## **5. EXCHANGE OF INFORMATION**

- 5.1. An MoU between the administrations of the ROI and the UK, which enables co-ordination between operators, subject to agreement of the Administrations, was signed on the 22 November 2000.<sup>3</sup> This principle shall be extended to operators of systems for the frequency bands identified in this MOU.
- 5.2. In the event of interference the affected parties shall exchange information with a view to resolving the dispute by mutual agreement. A report of the interference and the details of the information exchanged shall be sent to both administrations. The Administrations of Ireland and the United Kingdom agree to facilitate the exchange of information between operators.
- 5.3. An Administration wishing to bring a station into service or wishing to modify the characteristics of a station, such that the signal exceeds a coordination threshold given in paragraph 2, must submit a request for co-ordination with the other Administration by way of notice.
- 5.4. Exchanges of information for coordination/notification purposes shall be in the format set out in the HCM agreement Appendix 2A (revised at Vilnius 2005).
- 5.5. The affected Administration shall evaluate the request for co-ordination and shall within 30 days notify the result of the evaluation to the Administration requesting co-ordination.
- 5.6. If in the course of the co-ordination procedure the affected Administration requires additional information, the Administration seeking co-ordination shall provide such information upon request.
- 5.7. An Administration not having responded within 30 days following communication of the reminder shall be deemed to have given its consent and the station may be brought into use with the characteristics given in the request for co-ordination.

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<sup>3</sup> Agreement between the administrations of United Kingdom/Ireland concerning the approval of planning arrangements between operators of mobile radio communication networks 22 November 2000

## **6. REVIEW ARRANGEMENTS**

The limits and prediction methods defined in this Memorandum of Understanding may be reviewed in the light of experience of operation of networks in both countries and future prediction developments.

## **7. TERMINATION OF THE MEMORANDUM OF UNDERSTANDING**

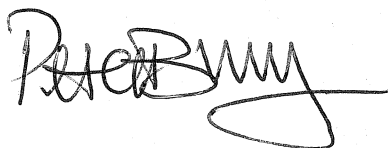
Either Administration may withdraw from this Memorandum of Understanding subject to 6 months notice.

## **8. DATE OF ENTRY INTO FORCE**

This Memorandum of Understanding shall enter into force on 1 April 2008.

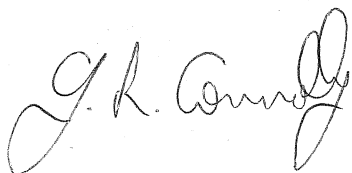
Signed on 3/ March 2008.

For the UNITED KINGDOM administration

A handwritten signature in black ink, appearing to read 'P. Bury', with a stylized, flowing script.

P BURY

For the administration of the REPUBLIC OF IRELAND

A handwritten signature in black ink, appearing to read 'J. Connolly', with a stylized, flowing script.

J. CONNOLLY