



Commission for  
**Communications Regulation**

## General

### **Registration of 5.8GHz Wireless Access Base Stations**

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**An Coimisiún um Rialáil Cumarsáide**

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## 1 Introduction to Registration of 5.8GHz FWA/MAN Stations

In Ireland, from July 2002, wideband data transmission systems for the provision of fixed wireless access networks/metropolitan area networks (FWA/MAN) in the 5.8GHz (5725 – 5875MHz) band have been permitted up to a maximum radiated power of 2W eirp on a licence exempt basis. This national decision was made following a public consultation on the subject of fixed wireless access (documents 02/19 & 02/49). FWA consists of the provision of telecommunications services to the public by means of radio access from a base station to one or more subscriber terminals. A MAN normally consists of a network established for private use, connecting a number of related entities by means of radio. The 5.8GHz band should not be considered an alternative to licensed point-to-point bands for the provision of public network infrastructure links.

Operation in the 5.8GHz band is subject to meeting the following conditions:

- Operating Frequency Band: 5725 – 5875MHz;
- Maximum permitted radiated power: 100mW/MHz eirp (to a maximum of 2W eirp);
- Registration of operational base stations.

The purpose of the registration process is to facilitate management of the band in the event of changes being necessitated by European standards or regulatory developments and to afford users in the band, adequate notice of any anticipated changes. Operators should also note ComReg's intention to establish a User's group for the 5.8GHz band to facilitate exchanges of information relating to operational and sharing issues. Please indicate in the registration form below if you would be interested in joining a User's group and/or be kept informed of issues within the group.

Operators should note that, in common with all other licence exempt services, 5.8 GHz FWA/MAN systems, despite registration, will not be entitled to any protection from interference from any other licensed or licence exempt service. In particular, operators should note the presence of road transport and traffic telematic (RTTT) systems in the 5795 - 5805 MHz band and the presence of other short range devices such as motion sensors throughout the band. It is the responsibility of the operator to minimise the potential for interference to and from neighbouring systems and adequate measures should be taken to avoid interference in all cases. In addition, operators should note that while operation in the 5.8GHz band is on a licence exempt basis under the Wireless Telegraphy Act 1926, provision of telecommunications services to the public requires the operator to hold an appropriate telecommunications licence, details of which are available from the ComReg web-site ([www.comreg.ie/lic\\_ov\\_telecoms.asp](http://www.comreg.ie/lic_ov_telecoms.asp)).

Section 2 of this document is a form containing the required registration details for a 5.8GHz base station. This form should be completed and returned to ComReg for inclusion in our database of stations operating in the 5.8GHz band. Part 2 of the form should be completed by operators deploying an FWA network and Part 3 by those deploying a MAN.

- Part 1 of the registration form should detail the operator or company who own and operate the radio equipment deployed at the location detailed in Part 2/3 of the form and the contact details of an individual to whom correspondence regarding the registered base station may be sent;
- Part 2 of the form details the location, coverage area and services provided by an FWA base station;
- Part 3 of the form details the location of stations and topology employed in a MAN.

This registration process may also be completed on the ComReg web-site at the following location: [www.comreg.ie/5\\_8GHzRegistration.asp](http://www.comreg.ie/5_8GHzRegistration.asp). Details of registered operators will also be made available to the public at the ComReg web-site.

## 2 Registration Form for 5.8GHz Wireless Access Base Stations

Where an operator has previously registered a base station under this process and the ‘operator contact details’ have not changed it will suffice to enter only the ‘Operator Name’ under Part 1 of the following form with base station details entered under Part 2 or 3.

### PART 1. OPERATOR CONTACT DETAILS

- 1.1 Operator Name (Company name) \_\_\_\_\_
- 1.2 Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- 1.3 Phone No \_\_\_\_\_
- 1.4 Fax No \_\_\_\_\_
- 1.5 E-mail address \_\_\_\_\_
- 1.6 Web Site (URL) \_\_\_\_\_
- 1.7 Contact Name \_\_\_\_\_
- 1.8 Contact Phone No. \_\_\_\_\_
- 1.9 Contact E-mail address \_\_\_\_\_

- Please indicate if the Operator (Part 1.1) is a Telecommunications Licence holder:
- Please indicate if you wish to be included in a 5.8GHz User’s Group:
- Please indicate if you wish to receive information output from a 5.8GHz User’s Group:

### PART 2. FWA BASE STATION DETAILS

- 2.1 Base Station Location  
 (e.g. Geographic coordinates/address) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- 2.2 Approximate Geographical Coverage Area  
 (e.g. Radius of Operation in km) \_\_\_\_\_
- 2.3 Outline details of the services being provided  
 by this base station \_\_\_\_\_  
 \_\_\_\_\_

- Please indicate if this base station is used to provide telecommunications services to the public:
- Please indicate if further base station deployment is anticipated in this geographic area:

**PART 3. MAN STATION DETAILS**

**In this part, please outline the details of the Metropolitan Area Network to be registered. Where point-to-point links are being employed please indicate both stations and the details of the antennas employed.**

3.1 Outline Network Topology \_\_\_\_\_  
\_\_\_\_\_

3.2 Please detail the location of each node of the MAN to be registered (attach additional sheets where necessary and a network map where appropriate) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3.3 Antenna gain and beamwidth \_\_\_\_\_

**Radio equipment deployed must comply with the essential requirements of the R&TTE Directive and bear the CE mark. For further information on the R&TTE Directive please refer to document 00/61 on the ComReg website ([www.comreg.ie](http://www.comreg.ie)).**

**Completed Registrations should be sent to:**  
Brian O'Dwyer  
Commission for Communication Regulation  
Abbey Court  
Irish Life Centre  
Lower Abbey Street  
Dublin 1