



Commission for
Communications Regulation

Information Notice

Short Range Devices in the 10.4 – 10.42 GHz band

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1 Executive Summary

The purpose of this Information Notice is to detail the latest revision of ComReg's Short Range Devices document 02/71R1. The main change has been to include new interface requirements for equipment for movement detection and alert in the 10.4 - 10.42 GHz band.

2 SRDs in the 10.4 – 10.42 GHz band

2.1 Background

Short Range Devices (SRDs) are defined as radio transmitters which provide uni-directional or bi-directional communication and which, in general, have low capability of causing interference to other radio equipment. In Ireland, such devices are generally permitted to operate on a non-interference, non protected basis.

The regulatory requirements for the operation of SRDs in Ireland are laid down in the ComReg document 02/71R. All SRDs which operate in accordance with the requirements of 02/71R (and revisions thereof) are exempt from licensing in Ireland under Statutory Instruments (S.I.) 160 of 2006 and S.I. 405 of 2002.

2.2 New requirements for Equipment for Detecting Movement and Alert in 10.4 – 10.42 GHz band

In July 2007, ComReg published an information notice (ComReg document 07/37) which, *inter alia*, outlined proposals for the introduction into the 10.4 - 10.42 GHz frequency band of high power (up to 500mW EIRP) equipment for movement detection and alert (e.g. Field Disturbance and Doppler Apparatus (FDDA)), for which there is increasing market demand. These higher power applications include equipment used for traffic applications to detect the movement of pedestrians and vehicles so as to facilitate traffic light changes (motion detectors). In document 07/37, ComReg drew attention to the fact that the existing Short Range Devices (SRD) document (02/71R) stipulated a maximum power of 25 mW EIRP for the operation of such equipment in the 10.5 – 10.6 GHz band. However, ComReg had become aware of an increasing demand for the use of licence exempt FDDA-type systems at higher power levels (≤ 500 mW EIRP) than was currently provided for in document 02/71R.

ComReg decided not to increase the power limits for the use of equipment for movement detection and alert in the 10.5 – 10.6 GHz band due to the potential for interference to existing Fixed Wireless Access Local Area (FWALA) users in the 10.5 - 10.6 GHz band. Instead, ComReg conducted internal investigations on the feasibility of the adjacent 10.4 - 10.42 GHz band for the introduction of this higher power equipment and these were found to be positive. ComReg therefore proposed to introduce the higher power limit (≤ 500 mW EIRP) for the use of equipment for movement detection and alert into the 10.4 - 10.42 GHz band.

To formalise the introduction of this higher power limit for equipment for movement detection and alert into the 10.4 – 10.42 GHz band, ComReg underwent a formal notification process with the European Commission. This involved notifying the European Commission (EC) of the draft interface requirements for the use of equipment for movement detection and alert on a licence exempt basis in the 10.4 - 10.42 GHz band (see ComReg document 07/41). After this notification was made a 3 month standstill period was invoked and during this time other Member States and the European Commission could comment on our draft interface requirements. The standstill period for this notification ended on 17 October 2007. A minor comment was received from the European Commission on 22 October 2007 and this has been taken into account in the final interface requirements for

equipment for movement detection and alert contained in Table 4 of document 02/71R1 published today.

2.3 Additional changes to ComReg's Short Range Devices document

In order to improve the level of detail in ComReg's Short Range Devices document, a general information section has now also been introduced into ComReg document 02/71R1. This section includes background information on the equipment requirements to be met by SRDs (e.g. Radio and Telecommunications Terminal Equipment Directive (R&TTE) Directive requirements), as well as details on relevant legislation.

In addition to this, references to a new European Commission Decision (2007/90/EC) and to the new Radio Frequency Plan 07/81 have also now been included.