

Appendix B (ARCHIVED)

Survey on GURL for fixed radio links


Background

In May 2003 a new [General Radio User Licence](#) (GURL) was issued for [Fixed Radio Links](#) (FRL). The GURL allowed the use of fixed point to point links in the 5725 to 5825 MHz band (5.8 GHz band) to operate with an e.i.r.p. up to 200 Watts without applying for individual licences. The GURL was regarded as a significant step outside the traditional use of GURLs and as such the initial licence was issued on a pilot basis and is only valid until 30 June 2004.

Consideration is now being given to removing the pilot conditions on this licence. As part of this review the Ministry would value input from suppliers and users on their experience with FRL services. This survey has some specific questions but any other comments related to the FRL GURL will be welcomed.

This survey is specific to the Fixed Radio Links. It is not intended to cover other general user devices.

Questionnaire

 Please note that this questionnaire expired in 2004. The questions contained in the online questionnaire have been provided below simply for reference purposes.

1. Future Demand - Your estimates of the market demand for fixed radio link service in the 5.8 GHz band will assist the Ministry to plan for the future. Any responses will be treated in confidence and will only be used to evaluate the future demand for FRL spectrum.

There are separate questions for Equipment Suppliers and Network Operators/users.

- 1.1 Equipment Suppliers
 - 1.1a What are your sales to date of equipment which is being used for fixed radio links in the 5.8 GHz band with a radiated power greater than 4 Watts?
 - 1.1b What are your estimated sales over the next 3 years for equipment to be used for fixed radio links in the 5.8 GHz band with a radiated power greater than 4 Watts?
 - 1.1c Any other comments on the market demand for FRL devices?
- 1.2 Network Operators & Users
 - 1.2a How many fixed radio links in the 5.8 GHz band have you installed and/or use which have a radiated power greater than 4 Watts?
 - 1.2b What is your estimate of the number of fixed radio links in the 5.8 GHz band with a radiated power greater than 4 Watts you will install over the next 3 years?
 - 1.2c Any other comments on the market demand for FRL devices?

Coordination Issues

The GURL for fixed radio links in the 5.8GHz band is issued with the express condition that:

"Frequency use is on a shared basis and the chief executive does not accept liability under any circumstances for any loss or damage of any kind occasioned by the unavailability of frequencies or interference to reception".

To manage potential and actual interference the MED does encourage coordination amongst users, particularly in areas where there is high usage. Since the FRL spectrum is shared with Short Range Devices it is likely that there will be a growing need for local coordination as the usage increases.

Have you experienced any actual or suspected radio interference with any Fixed Radio Link equipment operating in the 5725 to 5825 MHz band? (This may be interference into your equipment or from your equipment into other services). Please give details.

How do you see local coordination working in areas of interest to you? Have you been involved in any coordination actions?

Any other comments on interference management and coordination within the 5725 to 5825 MHz band?

Technical Details

The technical details of the GURL were based on similar regulations issued by the FCC in USA for Unlicensed National Information Infrastructure (U-NII) networks (For technical details and definitions refer to ref 2, section 15.401). The U-NII equipment uses wideband digital modulation techniques in the 5725 to 5825 MHz band to provide high data rate communications in a national network.

The FCC also allow operation of point to point links in the band 5825 to 5850 MHz using digital modulation or frequency hopping technologies (ref 2, section 15.247 (b) (4) (ii)). This provides for fixed links which not used for the wide band U-NII service.

In your estimation is there any demand in New Zealand for FRL services outside of the band 5725 to 5825 MHz?

Are there any other technical issues relevant to this review which you wish to comment on?

Any Other Comments:

Here is your opportunity to make any other comments on the implications of removing the limited term or any other issues related to the GURL

2

2a

2b

2c

3

3a

3b

4

References:

[REF 1](#) Radiocommunications Regulations (General User Radio Licence for Fixed Radio Link Devices) Notice 2004

[REF 2](#) Chapter 1 - Federal communications commission part 15 - Radio frequency devices.