

## **Background to Transfinite**

Transfinite is an independent UK company, with an excellent track record of consultancy support, study work and software development. We specialise in products and services to analyse compatibility between radiocommunications systems and their use of the radio spectrum, with particular emphasis on interference analysis, spectrum management and frequency co-ordination. Our study work has encompassed a wide range of communications systems including both terrestrial and satellite services.

Transfinite's areas of expertise comprise two key strengths:

- We can provide what we believe is amongst the best advice in the industry in the fields of tools, methodologies, simulation and modelling applicable to interference analysis and radio spectrum management;
- We can enhance this expertise by combining it with our wider knowledge of regulatory frameworks, spectrum management requirements and operational needs. We therefore understand the wider implications of sharing studies and, for example, can propose suitable regulatory solutions.

We have been involved in issues from high level policy (such as support for the review of the Communications Bill by the Joint Committee) to detailed studies of new spectrum management techniques (such as a proposal for a new approach to analyse spectrum efficiency and occupancy).

We are active world-wide, with an international client base, which gives us the ability to compare approaches used by other Regulatory Authorities and identify best practices.

Our product range includes:

- Visualyse Professional – a generic study tool to undertake interference analysis between a wide range of radio services including terrestrial and satellite;
- Visualyse Coordinate – to undertake analysis required to coordinate satellite earth stations with terrestrial services such as Fixed Service;
- Visualyse GSO – to support the coordination of GSO satellite networks during coordination trigger and detailed coordination stages.

We are active in work to develop a framework for spectrum trading in the UK, including the development of Technology Neutral Spectrum Usage Rights.

We are currently working for Ofcom for the further development of a Generic Radio Modelling Tool for Spectrum Trading. This software allows change of use to be analysed between almost any type of radio system by applying an Algorithm developed under this project. This tool could be used by either Ofcom or a group of Operators to ensure that licences are issued or modified only in a way that protects the rights of other licensees.

## **Information Memorandum Section 3.34 – Bullet 1**

It would be clearer if the last line indicated which low tide coastline should be used.

### **Information Memorandum Section 3.34 – Bullet 2**

It is sufficient to say “Calculation: Based upon the ITU-R Rec.P.452-12 at 10% of time” as that Recommendation includes basic path loss and references Rec.P.676.

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