

**For Immediate Release**

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**Transfinite leads move to private spectrum management**

Spectrum management used to be the preserve of just governments. But not longer, as private companies such as Transfinite change the rules of the game by providing quick and efficient management of the radio spectrum using the latest technology.

Transfinite have been positioning themselves to take advantage of this opportunity since the creation of Ofcom by the Communications Act. Indeed John Pahl, one of Transfinite's directors, was an advisor to Lord Pilkington during the review of the Communications Bill by the Joint Select Committee as far back as July 2002.

According to John Pahl, "the Comms Act set the framework for Ofcom's liberalised view of spectrum management. It opened the door to licence trading, splitting and aggregation, with increased private ownership and control of the radio spectrum".

In parallel Transfinite were developing the technology needed to operate as a Spectrum Management Organisation, or SMO. Transfinite are one of the world's leading developers and providers of software tools that can be used to predict the performance of radio communications systems – including the key issue of modelling interference.

Over the years Transfinite have built a suite of software tools under the Visualyse brand, including the world-beating Visualyse Professional, a de-facto standard for interference studies at the global body responsible for radio management, the ITU.

Recently Transfinite have been working with Ofcom on a Research and Development project into new tools and technologies to manage spectrum licensing in a flexible liberalised environment. The result was the Generic Radio Modelling Tool or GRMT.

Transfinite have built on the lessons learnt from GRMT to develop their Visualyse Spectrum Manager, the next generation licence management solution.

According to John Pahl, Visualyse Spectrum Manager "provides Transfinite with the capability to offer customers low cost low risk flexible spectrum licensing".

The software is designed around a web-based server and includes:

- Easy submission of application for links via a user interface that adapts to each link type
- On-line technical analysis to check for interference and identify suitable parameters to use (such as transmit power and frequency)
- Generic methodology that can apply the same interference engine to all types of links

- Sophisticated technology based on .NET and SQL server to manage the link approval process

This means those wanting access to the radio spectrum can simply log onto the Transfinite server over the internet with any web browser. An example of what the user would see is shown below.

Visualyse SM John Pahl (Transfinite Systems Ltd) ?

TRANSFINITE SYSTEMS New Explore Reporting Configure Logout

Licence Explorer Search returned 595 licences. Only displaying the first 250.

**Licence Information**

**Frequency and Distance**

Within:  km      Frequency range:

Latitude:  deg N      Lowest (MHz):

Longitude:  deg E      Highest (MHz):

[See on map](#)

**Dates**

Map: Road Aerial Hybrid

*(Map showing radio links on Cape York Peninsula with various frequency labels like 158.4, 177.5, 185.5, etc.)*

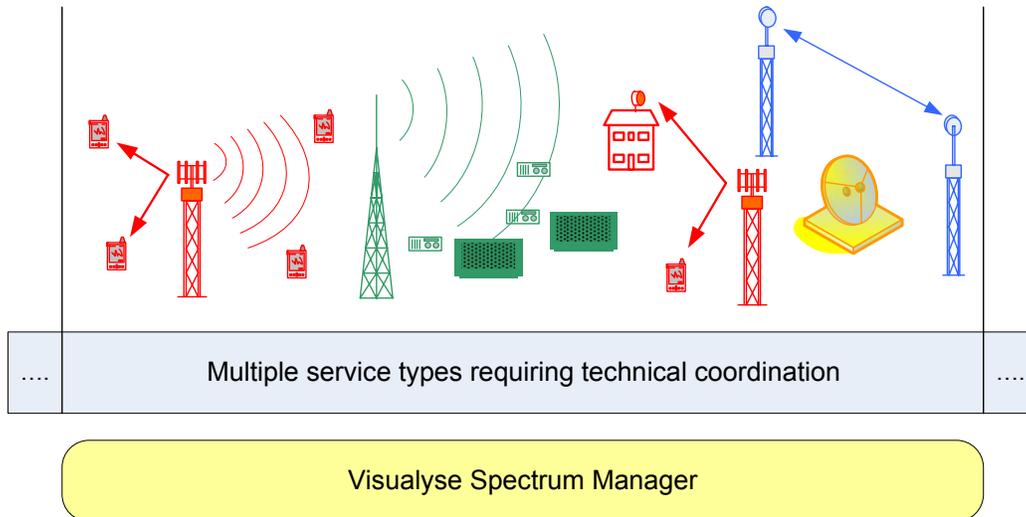
150 km

Licence ID	Name	State	Date Approved
<input type="checkbox"/> 233	RRL LICENCE_NO: 65867	Active	01 June 2009
<input type="checkbox"/> 234	RRL LICENCE_NO: 65870	Active	01 June 2009
<input type="checkbox"/> 235	RRL LICENCE_NO: 65871	Active	01 June 2009
<input type="checkbox"/> 237	RRL LICENCE_NO: 65875	Active	01 June 2009
<input type="checkbox"/> 239	RRL LICENCE_NO: 65878	Active	01 June 2009
<input type="checkbox"/> 241	RRL LICENCE_NO: 65882	Active	01 June 2009
<input type="checkbox"/> 242	RRL LICENCE_NO: 65889	Active	01 June 2009
<input type="checkbox"/> 243	RRL LICENCE_NO: 65892	Active	01 June 2009
<input type="checkbox"/> 246	RRL LICENCE_NO: 65905	Active	01 June 2009
<input type="checkbox"/> 248	RRL LICENCE_NO: 65909	Active	01 June 2009
<input type="checkbox"/> 249	RRL LICENCE_NO: 67124	Active	01 June 2009
<input type="checkbox"/> 250	RRL LICENCE_NO: 67249	Active	01 June 2009
<input type="checkbox"/> 252	RRL LICENCE_NO: 68786	Active	01 June 2009
<input type="checkbox"/> 253	RRL LICENCE_NO: 68787	Active	01 June 2009
<input type="checkbox"/> 254	RRL LICENCE_NO: 68788	Active	01 June 2009
<input type="checkbox"/> 255	RRL LICENCE_NO: 75010	Active	01 June 2009
<input type="checkbox"/> 256	RRL LICENCE_NO: 75679	Active	01 June 2009
<input type="checkbox"/> 258	RRL LICENCE_NO: 75691	Active	01 June 2009
<input type="checkbox"/> 260	RRL LICENCE_NO: 76626	Active	01 June 2009
<input type="checkbox"/> 261	RRL LICENCE_NO: 76953	Active	01 June 2009
<input type="checkbox"/> 263	RRL LICENCE_NO: 82258	Active	01 June 2009
<input type="checkbox"/> 265	RRL LICENCE_NO: 83743	Active	01 June 2009
<input type="checkbox"/> 266	RRL LICENCE_NO: 83744	Active	01 June 2009
<input type="checkbox"/> 268	RRL LICENCE_NO: 83746	Active	01 June 2009
<input type="checkbox"/> 270	RRL LICENCE_NO: 83748	Active	01 June 2009

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The software is based upon advanced algorithms that are able to analyse interference between almost any type of system, including point to point links (such as those used for backhaul), point to multi-point links or even satellite earth stations.

Transfinite’s spectrum management vision can be seen in this picture:



This approach is unlike that of traditional analysis tools that are able to manage only one or at most two different types of system, and are desktop based rather than a native internet application.

Yet again the latest internet based technology is enabling the smaller company compete with the big telecommunication companies.

### About Transfinite Systems Ltd

Transfinite Systems Ltd are a UK based SME that specialises in software and consultancy for management of the radio spectrum.

Transfinite develop and market a range of Commercial Off The Shelf (COTS) software products including:

- Visualyse Professional – a generic study tool to undertake interference analysis between a wide range of radio services including terrestrial and satellite
- Visualyse GSO – to support the coordination of GSO satellite networks during coordination trigger and detailed coordination stages
- Visualyse Coordinate – to support the coordination of satellite earth stations with terrestrial services such as Fixed Service
- Visualyse Spectrum Manager – to manage blocks of spectrum and undertake planning and interference assessment as part of licensing system

Transfinite provide full support for all products including customisation, training, support, and maintenance to a world-wide customer base.

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