

ClearSpectrum

BWA/WiMAX WORLDWIDE LICENSING & TECHNICAL DATABASES

- Are you tired of wasting time searching for WiMAX spectrum information and not finding all you need?
- Are you confused by contradictory sources of information and unclear foreign language sources?
- Do you need a single and reliable source for regulatory information on BWA/WiMAX?

CLEARSPPECTRUM IS THE ANSWER TO YOUR BWA/WiMAX REGULATORY INFORMATION NEEDS!

CUSTOMER TESTIMONIALS

*"We have purchased Maravedis's ClearSpectrum database and are extremely satisfied with the quality work that was put into it. In fact the database was very helpful in defining our new product development strategy at **Canopy Motorola**."*

Juan C. Santiago
Director of Strategy Motorola, Inc.
Canopy(tm) and W4i Wireless
Broadband Products

"We have purchased ClearSpectrum from Maravedis and found it very useful for our understanding of regulation of WiMAX in many countries. In fact this tool saved us hundreds of hours of research and the quarterly updates are very useful too."

Lisa Gregorski
Wireless Standards & Spectrum Planning
Nortel Networks

Maravedis has surveyed country regulators in 53 of the world's largest economies in order to build and maintain **THE ONLY** comprehensive and up-to-date list of BWA/WiMAX spectrum license holders and technical regulations worldwide. ClearSpectrum is the result of that research and is composed of two separate databases: the Licensing and the Technical Databases.

THE BENEFITS OF CLEARSPPECTRUM ARE CLEAR

- **Generate substantial new revenues:** ClearSpectrum is being used TODAY by your competitors to quickly identify the most promising market opportunities for selling equipment to license holders!
- **Support your license acquisition strategy:** The market for spectrum licenses is warming up quickly! Take advantage of the information NOW to quickly determine the best investment opportunities in the market!
- **Increase your productivity and save hundreds of thousands dollars worth of research.** To research and keep up-to-date such a scope of information could consume precious company resources, and require language skills!
- **Support your decision-making:** We collected the data directly from the regulators themselves so as to provide you with information you can rely on!

FEATURES INCLUDED

- Initial purchase prices include quarterly updates for a six month period.
- ClearSpectrum includes extensive comments
- ClearSpectrum is now ready for delivery by email in Excel format.

WANT TO KNOW MORE ?

Please contact us at: **afellah@maravedis-bwa.com** or call **+1 (305) 865-1006** for pricing information and other questions.

LICENSING DATABASE

The Licensing Database provides you with the following information for more than 600 license holders worldwide!

	<i>Countries</i>	<i>Frequencies</i>	<i>Name of License holder</i>	<i>Date allocation</i>	<i>Duration of License (start-stop dates)</i>	<i>Geographical scope of license</i>
Licensing Database (part 1)	Countries	Frequencies	Name of License holder	Date allocation	Duration of License (start-stop dates)	Geographical scope of licenses acquired
	Belgium	3.4-3.6 GHz	Clearwire	Apr-04	No stop date	Nationwide
	Belgium	3.4-3.6 GHz	MAC Telecom SA	Apr-04	No stop date	Nationwide
	Belgium	2,5 GHz	Clearwire	Apr-04	Not Until 2009	Nationwide
	Cyprus	3.4-3.6 GHz	Not Allocated yet	N/A	N/A	N/A

	<i>Spectrum Acquired</i>	<i>Nature of License Process (bid, contest beauty,...)</i>	<i>Amount Paid for License</i>	<i>License constraints (re-use, re-sales...)</i>	<i>Total Population serviced (Millions)</i>	<i>Equipment Vendor</i>
Licensing Database (part 2)	Spectrum Acquired	Nature of License Process (bid, contest beauty,...)	Amount Paid for License	License constraints (re-use, re-sales...)	Total Population serviced (Millions)	Equipment Vendor
	25 MHz duplex	beauty contest	Marginal fee for the licence itself : only annual fees for the use of frequencies.	Respect of rollout provisions in the application	10,2	See comment
	25 MHz duplex	beauty contest	Marginal fee for the licence itself : only annual fees for the use of frequencies.	Respect of rollout provisions in the application	See comment	See comment
	See comment	See comment	See comment	See comment	See comment	See comment
	N/A	N/A	N/A	N/A	0,7	N/A

TECHNICAL DATABASE

The Technical Database is being used TODAY by industry leaders to define critical product research and development efforts. The Technical Database provides the following information for every country:

<i>Countries</i>	<i>Frequencies</i>	<i>Channel Sizes (MHz)</i>	<i>Block Sizes (MHz)</i>	<i>Separation "Guard band" (MHz)</i>	<i>Go (Rx) Downlink (BS to CPE)</i>
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Technical Database (part 1)

Countries	Frequencies	Channel Sizes (MHz)	Block Sizes (MHz)	Separation "Guard band" (MHz)	Go (Rx) Downlink (BS to CPE)
Austria	3.4-3.6 GHz	7	2x84Mhz	100	3.41-3.494
Austria Region 1	3.4-3.6 GHz	7	A,B,C	100	See comment
Austria Region 2	3.4-3.6 GHz	7	A,B,C	100	See comment
Austria Region 3	3.4-3.6 GHz	7	A,B,C	100	See comment
Austria Region 4	3.4-3.6 GHz	7	D,E	100	See comment

<i>Return (Tx)- Uplink (CPE to BS)</i>	<i>Power Constraints</i>	<i>FDD/TDD Status</i>	<i>Services Allowed (fixed, mobile,...)</i>
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Technical Database (part 2)

Return (Tx)- Uplink (CPE to BS)	Power Constraints	FDD/TDD Status	Services Allowed (fixed, mobile,...)
3.51 - 3.594	See comment	TDD/FDD	Fixed
See comment	See comment	See comment	See comment
See comment	See comment	See comment	See comment
See comment	See comment	See comment	See comment
See comment	See comment	See comment	See comment



WHO SHOULD USE CLEARSPPECTRUM?

- **Service Providers** that need to understand the licensing situation in their own countries or in new markets where they would like to expand;
- **Equipment Vendors** who want to strengthen their knowledge of the technical regulations by country in order to fine tune their product development. Manufacturers can also use ClearSpectrum to identify business development opportunities;
- **Regulators** who need international benchmarks for their own BWA/WiMAX spectrum allocation strategy
- **Financiers** who want to understand the revenue potential of BWA/WiMAX and the emerging service providers;
- **Consultants and Others** who want to develop a strategic understanding of Broadband Wireless in general and WiMAX in particular.

WANT TO KNOW MORE ?

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ABOUT MARAVEDIS

Maravedis has established itself over the years as the most credible and reliable resource for market intelligence in the broadband wireless industry. Maravedis works with equipment vendors, service providers, Regulators, and the investment community to produce a sound market analysis based on hard primary data and on in-depth understanding of technology, market and regulation trends.

MORE THAN FIFTY COUNTRIES COVERED¹

- **European Union:** Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, United Kingdom
- **Non EU countries:** Norway, Russia, Romania, Turkey, Croatia
- **CALA countries:** Brazil, Mexico, Chile, Argentina, Venezuela, Colombia, Peru, Uruguay, Ecuador
- **APAC countries:** China, India, Japan, South Korea, Singapore, Malaysia, Thailand, Taiwan, Hong Kong, Australia, New Zealand, Sri Lanka, Indonesia
- **North America:** USA & Canada

¹ Note: Other countries can be added in the future for an additional fee. Maravedis may also decide to review and include new countries as regulator activity or customer demand warrants.

FREQUENCIES COVERED

- 500 - 900 MHz (Only in selected countries)
- 2.3 - 2.4; 2.5 - 2.7 GHz
- 3.3 - 4.2 GHz (3.3 - 3.4; 3.4 - 3.6; 3.6 - 4.2)
- 5.725 - 5.850 GHz
- 10.5 GHz