

CANTOR

Spectrum & Tower Exchange

- Do Asset Discovery, Price Discovery and Overall Execution Costs maintain a limited spectrum marketplace?
- Is there a mis-assignment of resources today?
 - Both Physical & Radio Service Rules
- Does excessive concentration hurt liquidity?
- Do operators have a choice of spectrum?
 - License-Exempt, 700, PCS-Cellular, WCS, BRS/EBS, Auctions, More License-Exempt etc..
- Are primary auctions using the correct technology? BTA's, RSA's etc. Partition and Disaggregate on day 1?
- How do we track ownership on a real time basis? How do we track usage on a real time basis? Would this create more incentives for owners to take more action and buyers to more easily find opportunities?



- For more than 55 years, Cantor Fitzgerald LP has led Wall Street and the world in the institutional brokering of equities and government securities with annual transaction volume exceeding \$ 40 trillion.
- In the early 1980s, it began the executing a vision for moving the U.S. bond market and other financial instruments to a world class electronic trading environment where it exists today.
- At present, the firm has invested more than \$ 250 million dollars into this trading technology that is scalable, redundant and capable of adapting to new tradable products like spectrum and tower assets.



- For the past four years, Cantor has publicly supported the efforts of the FCC, OFCOM and other regulatory bodies to allow spectrum trading in secondary markets.
- As as broker or intermediary, Cantor Fitzgerald does not take title or acquire spectrum assets.
- Cantor evaluates potential markets and is committed to facilitating market transactions and to reducing transactional friction that make markets for efficient.
- Cantor operates in highly regulated environments and believes that a regulated, market-based trading approach will best serve the public interest.



- **Wireless spectrum plays a critical role in economic stimulation and progress both commercially and educationally.**
- **Innovative services are more likely to be developed in regions where spectrum rapidly can be obtained or offered, price discovery/valuation agreed and execution done with minimal time and friction.**
- **The Cantor Spectrum Exchange was initially developed for the US but the “Platform” can be modified and used in any jurisdiction both publicly and privately.**



KEY FEATURES & BENEFITS OF THE EXCHANGE

- Complete Spectrum/Tower Bid & Offer
- Price Discovery Tool
- Buy & Sell Side Development
 - Call Center Activity To FCC & FAA Records
 - Mobile Carriers, ILEC's, CLEC's, Municipalities, RLEC's, WISP's, Content Providers, Satellite, Software Companies etc.
- Current Market Analysis/Ownership Including Overlay Of Marketed Coverage By Carrier Marketing
- Digital Sub-Channel Development (Virtual Spectrum Matching Content Developers/Licensees with Operators)



The values of these assets change over time.

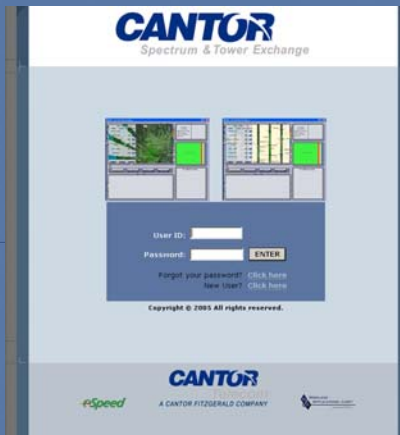
- M&A activity
- Regulatory rule changes
- Good or bad auction results
- Municipal deployments
- Technology innovation in new bands
- VOIP/mobile video/WiMax
- More efficient use of current spectrum bands
- New towers/rooftops available
- Business failure

Where do participants go today? Is it efficient?



Evolution Of An Electronic/On-Line Spectrum & Tower Marketplace

Introducing The:
Cantor Spectrum and Tower Exchange



- Sales & Trading
- Investment Banking
- Asset Management
- Market Commentary
- Market Data
- Brokerage Services



- Home
- Our Heritage
- Our People
- Our Commitment
- News
- Careers
- Contact Us

Cantor Spectrum & Tower Exchange



[Cantor Spectrum Exchange](#) |
 [Cantor TowerExchange](#) |
 [Contact Us](#) |
 [In the News](#)

Cantor Spectrum & Tower Exchange

- › [Registered Users Login](#)
- › [SELLER Registration for Wireless Spectrum](#)
- › [BUYER Registration for Wireless Spectrum](#)
- › [Cantor Spectrum Markets](#)
- › [About FCC Secondary Markets](#)
- › [Cantor Spectrum FAQs](#)

"The Cantor Fitzgerald Spectrum & Tower Exchange & Marketplace™ is a web-based service that makes offering, finding, pricing and executing transfer of wireless spectrum rights, tower assets and tower/rooftop space as efficient, neutral and transparent as possible."

Cantor Spectrum Exchange revolutionizes the market for radio frequency spectrum, including the manner in which wireless spectrum is bought, sold and leased between counterparties. The exchange is well poised to be the premier trading and data resource for spectrum available for lease and sale.

Cantor Telecom brings to you a scalable trading platform that is neutral and focused on the industry. Integrating our electronic and voice trading systems along with leading edge mapping and analysis methods we have formed a revolutionary spectrum and tower exchange.



Our primary goal is to create a viable marketplace for spectrum trading. We will make it easier to find/post specific assets, BID/OFFER these assets and execute these asset transactions more quickly, efficiently and at a lower cost.

Traditional methods of trading spectrum may not bring all the participants together and/or generate the right price.



New participants upload standard brokerage agreements, sign them and then are given a User ID & Password



CANTOR

Spectrum & Tower Exchange



User ID:

Password:

Forgot your password? [Click here](#)
New User? [Click here](#)

Copyright © 2005 All rights reserved.



Simple On-Line Log In



CANTOR

Spectrum & Tower Exchange



Telecom Home



Analysis & Research



General Information

Spectrum

Tower/Structures

Change Password

All Fields marked with * are required

Save Changes

* First Name: Anita

* Last Name: Phreq

* Company Name: Cantor Exchange

FCC/FAA Filing Name/Affiliated:

Name for Trading Anita

Don't Reveal Identity

Street Address: 186000 Spectrum Ave

City: Exchange

State/Province: WA

Zip/Postal Code: 98850

Country: USA

* Contact Email Address: CantorExchange@wacorp.net

Set Notification Preferences

* Phone Number: 425-643-5000

Mobile Number:

First, users must create a profile of how to be contacted and what name to use when placing trades.





Telecom Home



Analysis & Research



Legal & Regulatory Documents



Business Solutions by Frequency

General Information | Spectrum | Tower/Structures | Change Password

Notify Email Address:

Notify	Email		Notify	Email	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	My New Listing Releases	<input type="checkbox"/>	<input type="checkbox"/>	My Preferences Match My New Listing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	My Preferences Match New Listing By Others	<input checked="" type="checkbox"/>	<input type="checkbox"/>	My Listing Is Cancelled
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Listing I Bid On Is Cancelled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	My Listing Expires
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Listing I Bid On Expires	<input checked="" type="checkbox"/>	<input type="checkbox"/>	My Listing Closes
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Listing I Bid On Closes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	I Bid On Listing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	My Listing Is Bid On	<input checked="" type="checkbox"/>	<input type="checkbox"/>	I Counter Bid On Listing
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Counter Bid To My Bid			

Phone Number:

Mobile Number:

**Notification Configuration Is Key
Given The Size Of The
Marketplace & Depth Of Activity**





Telecom Home



Analysis & Research



General Information

Spectrum

Tower/Structures

Change Password

Save Changes

Preferences Preset S1

State Preferences: CO,IN,KY,MD,MN,MT,NH,NY,
OH,PA,SD,TX,UT,WA,WY
Desired Bands/Frequencies: Cellular

Preferences Preset S2

State Preferences: AL,AR,CT,FL,ID,IA,LA,MA,
MS,MO,NE,NV,NJ,NC,OK,
OR,RI,TN,TX,VT,WV,WI
Desired Bands/Frequencies: Mass Media

Preferences Preset S3

State Preferences: AL,AK,AZ,AR,CA,CO,CT,DE,
DC,FL,GA,HI,ID,IL,IN,
IA,KS,KY,LA,ME,MD,MA,
MI,MN,MS,MO,MT,NE,NV,
NH,NJ,NM,NY,NC,ND,OH,
OK,OR,PA,RI,SC,SD,TN,
TX,UT,VT,VA,WA,WV,WI,
WY
Desired

Users Can Set Broad or Specific Preferences Down To The Channel For Spectrum Along With Geography





Telecom Home



Analysis & Research



Legal & Regulatory Documents



Business Solutions by Frequency

General Information | Spectrum | Tower/Structures | Change Password

Preferences Preset T1 Save Changes

State Preferences: ME,MD,MA,MI,MN,MS,MO

State Selection - Microsoft Internet Explorer

<input type="checkbox"/> Alabama	<input type="checkbox"/> Alaska	<input type="checkbox"/> Arizona
<input type="checkbox"/> Arkansas	<input type="checkbox"/> California	<input type="checkbox"/> Colorado
<input type="checkbox"/> Connecticut	<input type="checkbox"/> Delaware	<input type="checkbox"/> District of Columbia
<input type="checkbox"/> Florida	<input type="checkbox"/> Georgia	<input type="checkbox"/> Hawaii
<input type="checkbox"/> Idaho	<input type="checkbox"/> Illinois	<input type="checkbox"/> Indiana
<input type="checkbox"/> Iowa	<input type="checkbox"/> Kansas	<input type="checkbox"/> Kentucky
<input type="checkbox"/> Louisiana	<input checked="" type="checkbox"/> Maine	<input checked="" type="checkbox"/> Maryland
<input checked="" type="checkbox"/> Massachusetts	<input checked="" type="checkbox"/> Michigan	<input checked="" type="checkbox"/> Minnesota
<input checked="" type="checkbox"/> Mississippi	<input checked="" type="checkbox"/> Missouri	<input type="checkbox"/> Montana
<input type="checkbox"/> Nebraska	<input type="checkbox"/> Nevada	<input type="checkbox"/> New Hampshire
<input type="checkbox"/> New Jersey	<input type="checkbox"/> New Mexico	<input type="checkbox"/> New York
<input type="checkbox"/> North Carolina	<input type="checkbox"/> North Dakota	<input type="checkbox"/> Ohio
<input type="checkbox"/> Oklahoma	<input type="checkbox"/> Oregon	<input type="checkbox"/> Pennsylvania
<input type="checkbox"/> Rhode Island	<input type="checkbox"/> South Carolina	<input type="checkbox"/> South Dakota
<input type="checkbox"/> Tennessee	<input type="checkbox"/> Texas	<input type="checkbox"/> Utah
<input type="checkbox"/> Vermont	<input type="checkbox"/> Virginia	<input type="checkbox"/> Washington
<input type="checkbox"/> West Virginia	<input type="checkbox"/> Wisconsin	<input type="checkbox"/> Wyoming

**Tower And Rooftop Preferences
Are Determined By State**



Entity Name

CANTOR
Spectrum & Tower Exchange

CREATE LISTING SEARCH MY TRADES PROFILE DEMOS LOGOFF

CREATE LISTING: EXISTING ASSETS

Config Spectrum Towers Search Rings Backhaul

Asset Management

Search Entity Names: spec [Go]

You Searched:
 spect

We Found Companies Like:

- SPECTA GUARD
- SPECTACOR MANAGEMENT GROUP
- SPECTACOR MANAGEMENT GROUP DBA SMG
- SPECTACOR MANAGEMENT GROUP INC
- SPECTACOR MANAGEMENT INC
- SPECTAGUARD INC
- SPECTER, MARVIN M DBA : M M SPECTER P E L S
- SPECTHRIE, ROBYN L

Add all

Company Names to Search Assets

- DI
- DI
- M
- L
- L
- M
- U
- U
- N
- N
- A
- A
- T

CANTOR
Spectrum & Tower Exchange

CREATE LISTING: EXISTING ASSETS

Config Spectrum Towers Search Rings Backhaul

Asset Management

Customer Information

Radio Service Codes:

- CN (10) - PCS Narrowband
- CP (341) - Part 22 VHF/UHF Paging (excluding 931MHz)
- PC (4) - Public Coast Stations
- QA (8) - 220-222 MHz Band
- QT (2) - Non-Nationwide 5 Channel Trunked, 220 MHz
- YC (3) - SMR, 806-821/851-866 MHz
- YD (2) - SMR, 896-901/935-940 MHz

Radio Service Type

**Selling/Leasing Assets- We Pull
Your FCC Records Automatically
For Ease Of Use & Accuracy**



CANTOR
Spectrum & Tower Exchange



CREATE LISTING: EXISTING ASSETS

Config

My Spectrum

My Towers

My Search Rings

My Backhaul

Asset Management

Company Names Searching:

DC... of ...

CW - PCS Broadband

Call Sign	Status	Type	Name	Address	FRN
KNLF707	A	L	Delaware Cellular Systems, Inc.		000-1880719
	<input type="checkbox"/>		1880A - 1880B		
	<input type="checkbox"/>		1880C - 1880D		
KNLF708	A	L	Delaware Cellular Systems, Inc.		000-1880719
	<input type="checkbox"/>		1880A - 1880B		
	<input type="checkbox"/>		1880C - 1880D		
KNLF885	A	L	Delaware Cellular Systems, Inc.		000-1880719
	<input type="checkbox"/>		1885 - 1890		

Post

**Sellers/Lessees Get A Breakdown
Of The Entity Names, Radio
Service & Specific Call Sign**



**Sellers/Lessees Can
Review The FCC Info
Obtained By The
Exchange And See A
Snapshot In Real-Time**

Call Sign:
KNLF707

LICENSE STATUS:
A - ACTIVE

OWNER:
DOBSON CELLULAR SYSTEMS, INC.

LICENSEE TYPE:
O - OWNER

Boundary: BTA345



Largest Cities: ?

PRINT 

GENERAL INFORMATION

RADIO SERVICE CODE:	CW	GRANT DATE:	09/17/1996
UNIQUE SYSTEM IDENTIFIER:	9366	EXPIRED DATE:	09/17/2006
FRN:		CANCELLATION DATE:	
RADIO SERVICE TYPE:	PCS BROADBAND	EFFECTIVE DATE:	12/24/2004
REGULATORY STATUS:	COMMON CARRIER	LAST ACTION DATE:	12/24/2004

MARKET INFORMATION

FREQUENCY (LOW / HIGH, MHZ):	1982.5 1990		
CHANNEL BLOCK:	C		
SUBMARKET:	1	BOUNDARY TYPE:	BTA345

LICENSEE / CONTACT INFO

CONTACT COMPANY:	DOBSON CELLULAR SYSTEMS, INC.	CERTIFIER NAME:	RONALD RIPLEY SR. V.P. & GENERAL COUNSEL
ATTN:		PHONE:	
		FAX:	
		EMAIL:	



CANTOR
Spectrum & Tower Exchange



Telecom Home



Analysis & Research



Legal & Regulatory Documents

Business Solutions by Frequency

CREATE LISTING: SPECTRUM

FROM:

EXISTING ASSETS

OR..

GRAPHICALLY DESIGN:

- SPECTRUM** -- BUY
- TOWERS -- SELL
- ROOFTOPS -- LEASE
- LAND -- OFFER

CHOOSE THIS OPTION TO BUY SPECTRUM FROM SOMEONE ELSE.



Telecom Home



Analysis & Research



Legal & Regulatory Documents

Business Solutions by Frequency

Would Like To

Trading Name: Don't Reveal Identity
 Transaction Type: Sell
 Entry Date: 22 October 2005
 Spectrum/Boundary: Define
 Desired Acquisition Date: 22 Oct 2005
 Price(\$): 1,000,000.00
 Legal Regulatory: Browse
 Upload More Info: Browse
 Listing Comments: 5 mhz PCS spectrum, choice location
 Trade Type: Indication Request
 Server Time: 10:56:57 AM
 Trade Start Time: 11 02 AM 22 Oct 2005
 Trade End Time: 11 02 AM 22 Nov 2005

Sellers Can Post Their Spectrum Assets Manually By Breaking Up The Assets (Partition And Desegregation)



Since We Are Capable
Of Describing These
Multi-Dimensional Assets,
Participants Can More Easily
Buy, Sell & Lease These Assets
In The Marketplace

Cantor Spectrum Exchange Powered By WAC™ - Geo Pick Spectrum - Microsoft Internet Explorer

No Map Available At This Zoom

No Map Available At This Zoom

Hold down the 'S' key and click into the Map to select area.

- AMT
- BEA
- BTA
- CEA
- CMA
- EAG
- MEA
- MTA
- Nationwide
- PSR
- REA
- RPC
- VPC
- County
- State
- Radius

C F Engine Pick Spectrum

PICKLIST FILES POST

Address: City: St: Zip: GO

Area Pending BTA: 182 - Harrison, AR

Service Group:
Personal Communication Services - PCS

Radio Service Code:
CW - PCS Broadband

APPEND

INFO PARTITION

UNLOAD List Builder

Spectrum_Post_3074 Areas

- BTA - 182 Harrison, AR

When you have completed your Spectrum List, Click the POST button to complete your Geo Pick Selection.



CANTOR
Spectrum & Tower Exchange



Telecom Home



Analysis & Research



Trading Name:
Asset Type:
Transaction Type:
Entry Date:
Desired Acquisition Date:

Spectrum/Boundary:

Price(\$):

Legal Regulatory:

Upload Category Documents:

Transaction Title:

Listing Comments:

Trade Type:

Current Exchange Time:

Transaction RELEASE Date:

Transaction ENDING Date:

Anita
Spectrum
Buy
4 February 2006

Open or Firm



Already Defined

PCS Broadband

\$1,650,000 or Negotiable

Upload

Executive Summary.pdf
and/or Legal Assistant

Upload



demographics_cma066_dob_1_.pdf

Great PCS property in Upper NW

15Mhz PCS frequency
available, firm offers only Indication Firm Request (Requires Escrow)

12:18:52 PM

12 15 PM 04 Feb 2006

4 February 2006 or Open

For The First Time, Participants
Can Now Send Out And Respond
To Spectrum & Tower Asset
Bids/Offeres In A Trading Format



CANTOR
Spectrum & Tower Exchange

CREATE LISTING SEARCH MY TRADES PROFILE DEMOS LOGOFF

Spectrum Tower Structures Tower/Rooftop Space

Type: For Sale For Lease Indication ID:

Area: Spectrum: Personal Communication Ser...

Indication ID	Owner	Entry Date	SpectrumType Geography	Bid Price	Status Type	Graphical Illustration
004035	Anita Phreq none	9/5/2005		\$.00	Sell	

Ownership
CW-Personal
Communication Services
- PCS

A
B
C
D
E
F

Telecom Home

Analysis & Research

Legal & Regulatory Documents

Business Solutions by Frequency

Routine Spectrum Ownership & Mapping For Most All FCC Licensed Frequencies For Advanced Analysis





Telecom Home



Analysis & Research



Legal & Regulatory Documents



Business Solutions by Frequency

Would Like To Buy Spectrum

Trading Name: Anita
Asset Type: Spectrum
Transaction Type: Buy
Entry Date: 4 February 2006
Desired Acquisition Date: Open or Firm
Spectrum/Boundary: Define
Price(\$): \$ or Negotiable
Legal Regulatory: Upload and/or Legal Assistant
Upload Category Documents: Upload
Transaction Title:
Listing Comments:
Trade Type: Indication Firm Request (Requires Escrow)
Current Exchange Time: 12:11:39 PM
Transaction RELEASE Date: 12 15 PM 04 Feb 2006
Transaction ENDING Date: 4 February 2006 or Open

**Easy To Use Trade Screens
Allow Participants To Add The
Additional Information Beyond
Maps & Analysis For Bids &
Offers**



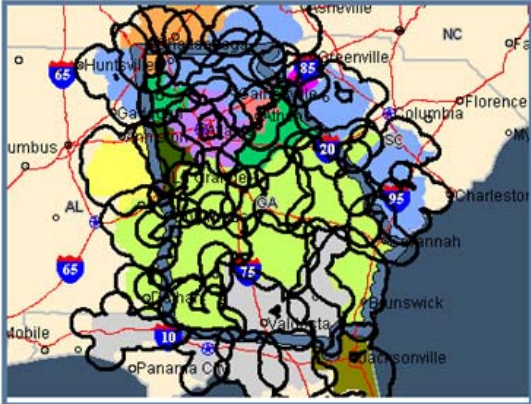
CANTOR
Spectrum & Tower Exchange

CREATE LISTING SEARCH MY TRADES PROFILE DEMOS LOGOFF

Spectrum Tower Structures Tower/Rooftop Space

Type: For Sale For Lease Indication ID:

Area: Spectrum: Cellular
Code: CL
Band: A

Indication ID	Owner	Entry Date	SpectrumType Geography	Bid Price	Status Type	Graphical Illustration
004035	Anita Phreq	9/5/2005		\$0.00	Sell	

Ownership
CL-Cellular
A
B

Telecom Home

Analysis & Research

Legal & Regulatory Documents

Business Solutions by Frequency

Routine PCS, Cellular, BRS-EBS, 700MHz, etc.
Spectrum Contour Ownership & Pop Counts



CANTOR
Spectrum & Tower Exchange

CANTOR Telecom
A CANTOR FITZGERALD COMPANY

Wireless Spectrum Brokerage Services
Cantor Spectrum Exchange Powered By WAC™ - Geo Pick Spectrum - Microsoft Internet Explorer

CREA

CANTOR Telecom
Telecom Home

Analysis & Research

Legal & Regulatory Documents

Vendor Solutions by Frequency

Custom

Legal Nan Transaction

Entry Date

Spectrum, Desired A

Time Fran

Price(\$):

Terms and

Listing Co

Trade Typ

Server Tir

Release T

Trade End

Powered by **eSpeed**

No Map Available At This Zoom

No Map Available At This Zoom

You have not built or selected a Spectrum File yet.

Build List Select from File

UNLOAD List Builder

Spectrum_Post_5672 Areas

CallSign - 240 WWWI-FM

Results for Market ,

Population Density (Pop/Sq. Mile)	58.33	Area (Sq. Miles)	656.45
Area	636 2.48%	Population	25,619
Mean_Age	18	Male	12,769 49.84%
White	25,012 97.63%	Female	12,850 50.16%

PICKLIST FILES POST

Posting Analysis To Assist Users In Demographics & Valuation Analysis



CANTOR Telecom
A CANTOR FITZGERALD COMPANY

Wireless Spectrum Brokerage Services
Cantor Spectrum Exchange Powered By WAC™ - Geo Pick Spectrum - Microsoft Internet Explorer

Click [RETURN](#) to return to the application.

Please Choose the Spectrum List to POST

You Are Currently Viewing Spectrum List "Spectrum_Post_5672".

Click [HERE](#) to Post this Picklist.

[Spectrum_Post_5672](#)

[Spectrum_Post_2197](#)

[Spectrum_Post_4488](#)

Powered by **eSpeed**

CREA

CANTOR Telecom
Telecom Home

Analysis & Research

Legal & Regulatory Documents

Vendor Solutions by Frequency

Legal Nan
Transactio
Entry Dat
Spectrum,
Desired A
Time Fran
Price(\$):
Terms and
Listing Co
Trade Typ
Server Tir
Release T
Trade End

**Store, Manage & Post Assets To The Marketplace
From Your Files Inside The Exchange**



CANTOR
Spectrum & Tower Exchange

SiteSync™ -- Market Analysis - Microsoft Internet Explorer

Map Resources

230.99 miles

SiteSync ▶ Projects ▶ Analysis ▶ Tools ▶ Market ▶ FCC

UTILS ?

GENERAL SPECIFIC

Call Sign	Owner	FRN	Status	Channel
B402	Nextel Spectrum Acquisition Corp.	0003768553	A	
WGW280	FMA LICENSEE SUBSIDIARY, INC.	0004357224	A (PSA)	
WGW513	Fixed Wireless Holdings, LLC	0010490498	A (PSA)	
WGW606	TV COMMUNICATIONS NETWORK, INC.		A (PSA)	
WHT584	Nextel Spectrum Acquisition Corp.	0003768553	A (PSA)	
WHT636	Nextel Spectrum Acquisition Corp.	0003768553	A (PSA)	
WHT653	ALDA WIRELESS HOLDINGS, INC.	0004340436	A	

Current Ownership

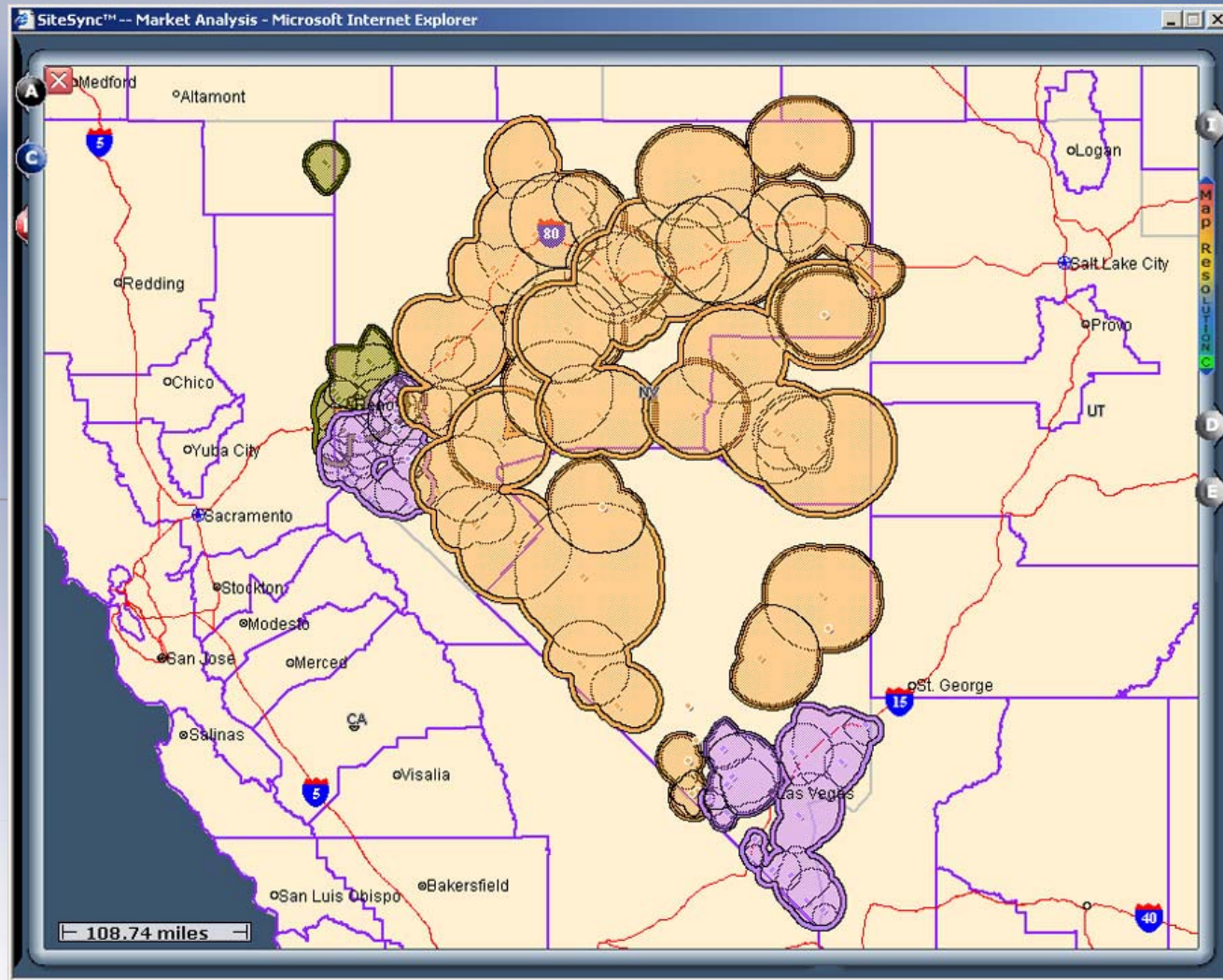
BRS E1

- NEXTEL SPECTRUM ACQUISITION CORP.
- FMA LICENSEE SUBSIDIARY, INC.
- FIXED WIRELESS HOLDINGS, LLC
- TV COMMUNICATIONS NETWORK, INC.
- ALDA WIRELESS HOLDINGS, INC.
- WBSS LICENSING CORPORATION
- FRESNO MMDS ASSOCIATES

Powerful Analysis Of Existing FCC License Frequencies.



CANTOR
Spectrum & Tower Exchange



Ownership Of Cellular With True Contours & Territories



SiteSync™ -- Market Analysis - Microsoft Internet Explorer

Zoom: 362 miles

Map Resources

No Map Available At This Zoom

No Map Available At This Zoom

FCC Data

Current Ownership

PCS D

- IOWA WIRELESS SERVICES HOLDING CORPORATION
- BLUE LICENSES HOLDING, LLC
- NEW CINGULAR WIRELESS PCS, LLC
- USCOC OF GREATER IOWA, INC.
- MIDWEST WIRELESS IOWA L.L.C.
- CRICKET LICENSEE (REACTION), INC.
- STOUXLAND PCS, INC.
- CELLCO PARTNERSHIP

Call Sign	Owner Name	Market #	Market Name
KNLH741	Iowa Wireless Services Holding Corporation	BTA061	Burlington, IA
KNLG860	BLUE LICENSES HOLDING, LLC	BTA070	Cedar Rapids, IA
KNLH743	Iowa Wireless Services Holding Corporation	BTA086	Clinton, IA-Sterling, IL
KNLG408	New Cingular Wireless PCS, LLC	BTA105	Davenport, IA-Moline, IL
KNLG871	USCOC of Greater Iowa, Inc.	BTA111	Des Moines, IA
KNLG861	Midwest Wireless Iowa L.L.C.	BTA118	Dubuque, IA
KNLG432	BLUE LICENSES HOLDING, LLC	BTA150	Ft. Dodge, IA
KNLG862	BLUE LICENSES HOLDING, LLC	BTA205	Iowa City, IA

Address: _____ City: _____ St: _____ Zip: _____ GO

QUERY

D-Link AirPlus

Spectrum, Microwave Paths, Details,
& More, Much More...



CANTOR
Spectrum & Tower Exchange

Cantor Exchange Powered By WAC™ - Spectrum Analysis - Microsoft Internet Explorer

No Map Available At This Zoom

No Map Available At This Zoom

BTA: 303 - Modesto, CA

Back GO

C F Engine Analysis Spectrum

UTILS ?

DEMOGRAPHICS COVERAGES ADVANCED

Address: City: St: Zip: GO

Results for Market 303, bta

Population Density (Pop/Sq. Mile)	134.49	Area (Sq. Miles)	3,728.80
Area	3,729	0.74%	Population 501,498
Mean_Age	35	Male	248,650 49.58%

W A

Sellers Can Check Their Property Boundaries, Demographics & Adjacent Owners.



CANTOR
Spectrum & Tower Exchange

Cantor Exchange Powered By WAC™ - Spectrum Analysis - Microsoft Internet Explorer

The screenshot displays a web application interface for spectrum analysis. The main map shows California with various colored regions representing different coverage patterns. A scale bar indicates 30.81 miles. To the right of the map, there are two boxes stating "No Map Available At This Zoom". Below these is a "Marketed Coverage" section with a "Tower Location" form. The form contains the following data:

Tower Location

Lat: 37° 37' 44.47" N
 Lon: 121° 00' 27.84" W

Buttons: Pick, GO

Below the map, there are navigation tabs: DEMOGRAPHICS, COVERAGES, and ADVANCED. A data table is visible below the tabs:

	NAD83	NAD27
Lat:	37° 37' 44.47"	37° 37' 44.72"
Lon:	121° 0' 27.84"	121° 0' 24.09"

Below the table, there is a section for "Marketed Coverage Data (1 mile radius)" with the following information:

Marketing Name: Sprint
 Entity Name: Sprint Nextel (fmr Nextel Communications)
 Protocol: IDEN

Buttons: LOAD, STYLE, UN-LO

Query And/Or Just Overlay Nearly 200 Existing (Carrier Marketed) Coverage Patterns



CANTOR
Spectrum & Tower Exchange

Google | Cantor Tower Exchange Powered By WAC™ - Tower Analysis Advanced - Microsoft Internet Explorer

Address: http://exchar

CANTOR
Spectrum & Tower Exchange

CANTOR
Telecom
A CANTOR FITZGERALD COMPANY

Telecom Home

Analysis & Research

Legal & Regulatory Documents

Business Solutions by Frequency

Map Resources

Tower Company Summary

- ATC (4)
- GlobalSignal (17)
- KGI (4)
- Spectra Site (20)
- TRM (13)
- Total Tower Company Sites: (58)**

C F Engine | Analysis | Towers | PowerSearch | Utils

FCC | FAA | MICROWAVE | TOWER Co.

Address: _____ City: Beaverton St: OR Zip: _____ GO

Search Tower Company Records

Dec NAD83 NAD27 City
 Address X-Street Market Poly

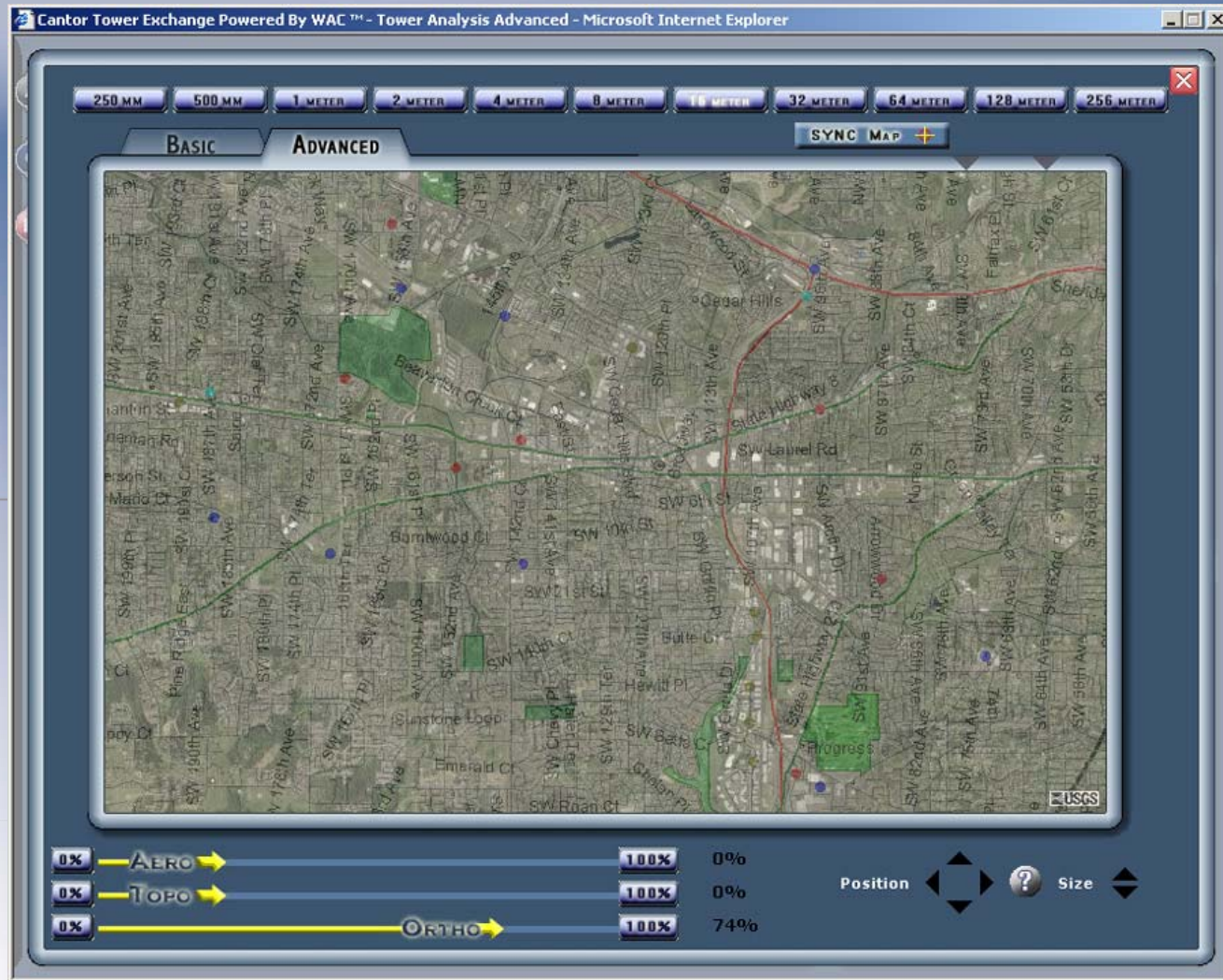
Company: All Companies
 State: ...
 Zip: _____
 Height: >= 0 ft m
 Ring: 4.74 mile radius

SEARCH [REPEAT]

Structures, Locations, Analysis, Topos,
Competitive Data



CANTOR
Spectrum & Tower Exchange



Unique Blending Method For Aerial,
Topos and Orthos.



CANTOR
Spectrum & Tower Exchange

Cantor Tower Exchange Powered By WAC™ - Tower Analysis Advanced - Microsoft Internet Explorer

9.75 miles

C F Engine Analysis Towers PowerSearch Utils

FCC FAA MICROWAVE TOWER Co.

Address: City: St: Zip: GO

Search Tower Company Records

Dec NAD83 NAD27 City
 Address X-Street Market Poly
 :Map Pick :Draw :Cancel

County , Forsyth

Company: All Companies
 State: ...
 Zip:
 Height: >= 0 ft m

RESET SEARCH

Tower Company Summary

- ♦ AAT (3)
- ♦ ATC (31)
- ♦ Crown (40)



City, State	Height
OLD TOWN, NC	199 ft. / 652.9 m.
WINSTON SALEM, NC	48 ft. / 157.5 m.
WINSTON-SALEM, NC	200 ft. / 656.2 m.

**Search Structures Multiple Ways,
Multiple Boundaries.**



CANTOR
Spectrum & Tower Exchange

Info for ID 3010522 - Microsoft Internet Explorer

Site ID: 3010522

Geographical Data [Print](#)

NAD 83	NAD 27
Lat: 35° 53' 16.63" N	Lat: 35° 53' 16.14" N
Long: 79° 55' 10.20" W	Long: 79° 55' 11.07" W

Latitude/Longitude (83) Latitude/Longitude (27)
 GPS: 35.887953° / -79.919500° GPS: 35.887817° / -79.919742°
 DEC: 35.887953° / -79.919500° DEC: 35.887817° / -79.919742°

Search Ring 35° 56' 44.57" N / 80° 5' 32.22" W
 Distance : 0.00
 Azimuth : 0

GIS 90 Meter Ground Elevation:
221.01 m / 725.10 ft
Discrepancy

Nearest City : Archdale Zip Code : 27263
 State : NC (North Carolina) County : Randolph

FCC Market Boundaries - Smallest to Largest:

CMA: 47 / Greensboro	MEA: 7 / Charlotte-Greensboro- Greenville-Raleigh
BEA: 18 / Greensboro-Winston-Salem-High Point, NC-VA	VPC: 2 / Mid-Atlantic
CEA: 144 / Data Not Supplied	REA: 2 / Southeast
BTA: 174 / Greensboro--Winston-Salem--High Point, NC	EAG: 2 / Mid-Atlantic
MTA: 6 / Charlotte-Greensboro-Greenville-Raleigh	RPC: 2 / South
PSR: 31 / North Carolina	AMT: 144 / Data Not Supplied

Regulatory Info

FAA Number: Data Not Supplied
 FCC ASR Number: Data Not Supplied
 Built: Data Not Supplied

Supplied Address / Location Info


5862 Trotter County Road, ARCHDALE, NC

Supplied Structure Info

Overall Height (Tip): 194
 Structure Height: 59 m. / 194 ft.


Ground Elevation: 283 m. / 929 ft.


Propagation Type: T



Tower Company Info

Global Signal Inc.
 Site Name: High Point
 Tenant Count: Data Not Supplied Contact: Data Not Supplied
 Shelter: Data Not Supplied Phone: Data Not Supplied
 Pad Size: Data Not Supplied Email: Data Not Supplied
 Company URL: <http://www.pinnacleltowers.com/>



a product of 

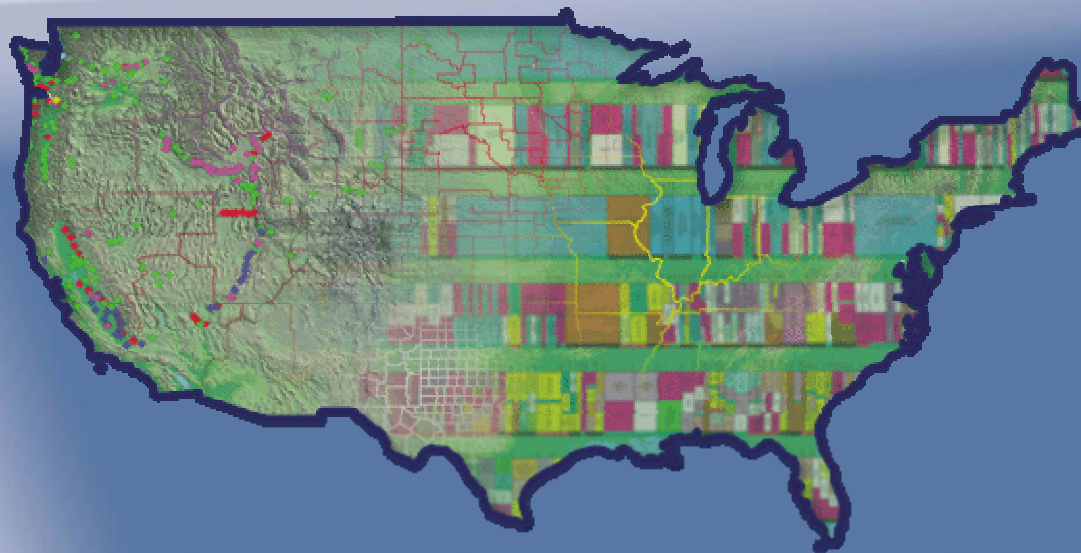
©2005 Wireless Applications, Corp., All rights reserved.

Enhanced Tower Company Portfolio Details Mixed With GIS Data & Propagation Results.



- **Does a innovative Spectrum Marketplace tool create an automatic incentive?**
- **Will investors fund more businesses cases with licensed wireless in the mix?**
- **Should the government provide funds to operators to serve the digital divide? Free Internet, Low Cost CPE's etc.**
- **Does the current system work? What are the measures?**
- **Where will the USA be in 5 years? Where will the rest of world be?**





CANTOR

Spectrum & Tower Exchange

Please Contact Me For A Live Online Demo

THANK YOU!

dmylet@cantor.com