

Speak, Find. ...**EASY!**<sup>®</sup>

**Single-Input Voice Search for Mobile**  
— including very long lists

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The Voice Search Company



# Novauris Single-Input Voice Search Demonstrations

- To make the demo results easily visible
  - all demos are run over a network
  - the results are sent to a webpage for projection here
    - the sole exception is the operational VZW-Medio-Novauris *Get It Now Search* application, which can't use a webpage
- The demos use:
  - 3G data links
  - cellphone voice links
  - fixed-line telephone or VoIP links  
(when sound output is important)
- Most demos can be run over any kind of link

# Overview of Novauris Single-Input Voice Search Demos

- Location-related searches
  - 245 million US names & addresses
  - Any number-street-city-state address in the U.S.
  - >>10 million POIs + generic categories
- Entertainment –related searches
  - Song titles & artists (130,000 titles, 20,000 artists...)
  - VZW *Get It Now Search*
  - TV programs 10 days, 70 channels
- “Free” language inputs

# U.S. Names and Addresses spoken as a single shot

- 245 million U.S. names & addresses  
e.g. “Brandi Martz, 8583 Lansdale Court, Orlando,  
Florida 32818”
- Real addresses, interpolated house numbers,  
names synthesized from frequency data in  
US census.
- Example application: self-identification of caller  
who does not have his/her ID number available.



# Novauris Single-Input Location Entry (1)

□ All basic US addresses:

– Entered as a single input

number – street – city – state

*e.g. “333 West Harbor Drive, San Diego, California”*

~ 5 million street-city-state combos X all numbers



# Novauris Single-Input Location Entry (2)

- US Points of Interest (POIs)

- Single input

- POI in city – state

- e.g. “San Diego Marriot Hotel & Marina, in San Diego, California”*

- >>10 million specific POIs

- + 270 generic categories + synonyms & variants  
for all cities

- e.g. “Ice cream parlors in La Jolla, California”*



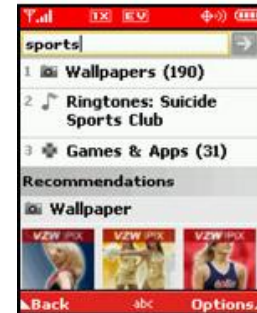
# Novauris Single-Input Entertainment Requests (1)

- Music Selection. The spoken entry can be:
  - Title by artist (250,000 items) e.g. *“Hips don’t Lie by Shakira”*
  - Artist, title (250,000 items) e.g. *“Shakira: Hips don’t lie”*
  - Just the title (130,000 items) e.g. *“Hips don’t lie”*
  - Just the artist (20,000 items) e.g. *“Shakira”*

- Selection of Music, Games, etc.  
Verizon Wireless *Get It Now Search*

- Operational since August 2006
- ~ 1 million voice-accessible items
- For more on this, please come to:

*“The World’s Largest Multi-modal Search Solution –  
Challenges, Solutions & Opportunities”  
Session A202, Tuesday 11.15 a.m.*



# Novauris Single-Input Entertainment Requests (2)

- TV Program Selection using EPG
  - e.g. *“Record Desperate Housewives on NBC on Monday Night”*
  - 20,000+ items
  - covers 70 channels (+ synonyms)
  - for 10 days





# “Free” Language inputs

- Specific demo to be determined, examples are:
  - Inputs to a spoken-translation system
  - Instructions to a human-like robot
  - Inquiries to an automated tech-support system
- For more on this, please come to:  
*“Natural Language Input for Voice Search”*  
Session B203, 1.30 p.m. on Tuesday

