

Antares Resource Directory

BUILD IT ON ANTARES TODAY

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Gold Technology Developers

Gold Technology Developers are speech technology developers that meet the following requirements.

- Port their algorithm/technologies to the Antares DSP platform
- Have a contractual agreement with Dialogic
- Dialogic sells their products through its sales force under the Dialogic name
- Dialogic provides first-tier customer engineering for their products

The current Antares™ Gold Technology Developers are:

Voice Control Systems, Inc. (VCS)

14140 Midway Road, Suite 100

Dallas, TX 75244

and

100 CambridgePark Drive

Cambridge, MA 02140

Product(s)	ASR										
Phone	1-972-726-1200 (Dallas) 1-617-441-0000 (Cambridge)										
Fax	1-972-726-1267 (Dallas) 1-617-441-0001 (Cambridge)										
Demo Lines	<table> <tr> <td>Travel America</td> <td>1-617-497-7973</td> </tr> <tr> <td>Area Code Finder</td> <td>1-617-494-0350</td> </tr> <tr> <td>Congressional Directory</td> <td>1-617-441-0601</td> </tr> <tr> <td>Alphanumeric</td> <td>1-972-404-9405</td> </tr> <tr> <td>Amy (Personal Banking Demo)</td> <td>1-972-726-5392</td> </tr> </table>	Travel America	1-617-497-7973	Area Code Finder	1-617-494-0350	Congressional Directory	1-617-441-0601	Alphanumeric	1-972-404-9405	Amy (Personal Banking Demo)	1-972-726-5392
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Area Code Finder	1-617-494-0350										
Congressional Directory	1-617-441-0601										
Alphanumeric	1-972-404-9405										
Amy (Personal Banking Demo)	1-972-726-5392										
Web Home Page	http://www.voicecontrol.com										
Contacts	<table> <tr> <td>Deborah Myrick</td> </tr> <tr> <td>Phone: 1-617-441-0000</td> </tr> <tr> <td>Email: deborah.myrick@vcsi.com</td> </tr> <tr> <td>Sam Weber</td> </tr> <tr> <td>Director of Systems Engineering</td> </tr> <tr> <td>Phone: 1-972-726-1200</td> </tr> <tr> <td>Email: sweber@vcsi.com</td> </tr> </table>	Deborah Myrick	Phone: 1-617-441-0000	Email: deborah.myrick@vcsi.com	Sam Weber	Director of Systems Engineering	Phone: 1-972-726-1200	Email: sweber@vcsi.com			
Deborah Myrick											
Phone: 1-617-441-0000											
Email: deborah.myrick@vcsi.com											
Sam Weber											
Director of Systems Engineering											
Phone: 1-972-726-1200											
Email: sweber@vcsi.com											

Lernout & Hauspie (L&H) Speech Products

52 Third Avenue
Burlington, MA 01803

Product(s)	ASR, TTS, Speech Compression
Phone	1-781-203-5000
Fax	1-781-238-0986
Demo Lines	1-800-DEMO-LHS (1-800-3366-547) or 1-781-359-9007 TruVoice Demo 1-781-359-9008
Web Home Page	http://www.lhs.com
Contacts	<p>Pam Ravesi Director Telecom, Product Management Phone: 1-781-203-5343 Email: pravesi@lhs.com</p> <p>Anne Simoneau Product Marketing Manager Phone: 1-781-203-5352 Email: asimoneau@lhs.com</p> <p>Stephanie Youker Director, Corporate Marketing Phone: 1-781-203-5335 Email: syouker@lhs.com</p> <p>Christine Fromm Trade Shows Phone: 1-781-203-5142 Email: cfromm@lhs.com</p>

CSELT

Via Reiss Romoli 274
I-10148 Torino
Italy

Product(s)	ASR, TTS
Phone	39-11-228-6210
Fax	39-11-228-6207
Demo Lines	39-11-228-6342
Web Home Page	http://www.cselt.stet.it
Contact	Alberto Ciaramella Email: alberto.ciaramella@cselt.stet.it

CNET

c/o Dialogic Telecom Europe
Airway Park
Lozenberg 23
Sint Stevens Woluwe, B-1932
Belgium

Product(s)	ASR
Phone	32-2-712-43-11
Fax	32-2-712-43-00
Contact	Frederic Bruel

Telefónica

Emilio Vargas, 6
E-28043 Madrid
Spain

Product(s)	ASR, TTS
Phone	34-1-337-4000
Fax	34-1-337-4202
Contact	Mr. Juan Calero

Diamond Technology Developers

Diamond Technology Developers are algorithm developers who

- Port their algorithm/technologies to the Antares DSP platform
- Have no contractual agreement with Dialogic
- Sell their Antares platform-based products directly to end users
- Provide all software support directly to customers

The current Antares Diamond Technology Developers are:

SpeechWorks (Formerly ALTech)

695 Atlantic Avenue

Boston, MA 02111

Product(s)	ASR
Phone	1-617-428-4444
Fax	1-617-428-1122
Demo Lines	1-888-SAY-DEMO
Web Home Page	http://www.altech.com
Contacts	Stuart Patterson President and CEO Email: stuart.patterson@altech.com
	Bill Ledingham Vice-president, Product Development Email: bill.ledingham@altech.com
	Todd Barber Vice-president, Corporate Partnerships Email: todd.barber@altech.com
	Lauren Richman Director of Marketing Communications Email: lauren.richman@altech.com
	Brian Tyler Sales Manager for Dialogic Email: brian.tyler@altech.com
	Carolyn Read Director, Channel Programs Email: carolyn.read@altech.com

Dragon Systems, Inc.

320 Nevada Street

Newton, MA 02160

Product(s)	ASR
Phone	1-617-965-5200
Fax	1-617-527-0372
Demo Lines	The White House 1-617-965-6416
Web Home Page	http://www.dragonsys.com
Contacts	Peter Wolf Manager, Telephony Products Email: peterw@dragonsys.com
	John Davey 1-650-323-0180 Director of Sales, Telephony Products Email: johnd@dragonsys.com
	Janet Baker President Email: janet@dragonsys.com
	England Office (Antares Developers) 011-44-1242-678-581 John Bridle Melvin Hunt Alan Kristie

DSP Software Engineering, Inc.

175 Middlesex Turnpike

Bedford, MA 01730

Product(s)	Speech Compression, Modems, Fax, and Echo Cancellation
Phone	1-781-275-3733
Fax	1-781-275-4323
Web Home Page	http://www.dspnet.com
Contacts	Mike Gaudette Director, System Engineering Email: mike@dspse.com
	John Della Morte Vice-president, Development
	Joe Della Morte CEO
	Bob Wang GM International Sales Email: bob@dspse.com
	Marcia Macres Marketing Communications Manager Email: marcia@dspse.com

Nuance Communications

1380 Willow Road

Menlo Park, CA 94025

Product(s)	ASR
Phone	1-650-847-0000
Fax	1-650-847-7979
Demo Lines	Banking 1-650-847-7438 Travel Plan Verifier 1-650-847-7427
Web Home Page	http://www.nuance.com
Contacts	<p>Chuck Buffum Director of Marketing Phone: 1-650-847-7711</p> <p>Steve Erlich Vice-president, Marketing Phone: 1-650-847-7720</p> <p>Dr. Matthew Lennig Vice-president, Engineering Phone: 1-650-847-7777</p> <p>Bruce Dougherty Vice-president, Sales Phone: 1-650-847-7707</p> <p>Ron Croen President and CEO Phone: 1-650-847-7700</p> <p>Kathy Frostad Director, Telecommunications Solutions Marketing Phone: 1-650-847-0000 Email: kfrostad@nuance.com</p>

Syrinx Speech Systems (Australia)

Level 8, 132 Arthur Street
North Sydney, NSW 2060
Australia

Product(s)	ASR
Phone	61-02-9925-0477
Fax	61-02-9925-0761
Web Home Page	http://www.syrinx.com.au
Contacts	Peter Goss Sales & Marketing Manager Email: pgoss@syrinx.com.au
	Clive Summerfield Managing Director Email: clive@syrinx.com.au

T-Netix

371 Hoes Lane

Piscataway, NJ 08854

Product(s)	ASR (Speech Verification)
Phone	1-908-981-1960
Fax	1-908-981-1966
Demo Lines	Speaker Verification: Wireline: 1-800-4-HEAR IT (1-800-443-2748) or 1-908-981-1882 (from outside the U.S.) Cellular: 1-888-2-SPEAKEZ (1-888-277-3253) or 1-908-981-1967 (from outside the U.S.)
Web Home Page	http://www.t-netix.com
Contact	Patrick Flanagan VP, Marketing Phone: 1-303-705-5525 Email: Pat.Flannery@T-Netix.com

General ASR/TTS Sources

Dialogic Publications

Most of the following publications can be obtained through the Dialogic On-Line Information Retrieval System. To request literature, dial **1-800-755-5599** (or **1-973-993-1063** outside the U.S. and Canada) and follow the instructions.

Application Notes

The following Application Notes are available for Antares:

1. Getting Started with Discrete Voice Recognition (00-1771-001) (#1771 on Dialogic Fax Server)
2. A Guide to Making Lernout & Hauspie Text-to-Speech Work in Your Application (00-2612-001) (#2612 on Dialogic Fax Server)

White Papers

1. Antares Open DSP Platform (00-0272-003)
2. Market Requirements for Text-to-Speech Applications (00-2421-002) (#2421 on Dialogic Fax Server)
3. Using Text-to-Speech (TTS) Technology for Email Reading (00-2600-001)
4. Using Text-to-Speech (TTS) in Interactive Voice Response (IVR) Applications (00-2792-001)
5. Using Speech Recognition in Telecommunications Applications (00-2726-001) (#2726 on Dialogic Fax Server)
6. Enhancing Computer Telephony Applications Using ASR Technology (00-2837-001)

Data Sheets

1. Antares™ Platform Overview (00-1550-007) (#1550 on Dialogic Fax Server)
2. Introduction to Speech Technologies (ASR/TTS) (00-3049-002) (#3049 on Dialogic Fax Server)
3. Antares 2000/50™, 3000/50™, 6000/50™ ISA Platform (00-1871-005) (#1871 on Dialogic Fax Server)
4. Antares Software Development Kit (SDK) (00-2538-005) (#2538 on Dialogic Fax Server)
5. Antares L&H.asr1500/T (00-1740-008) (#1740 on Dialogic Fax Server)
6. Antares L&H.tts 2000/T (00-1745-007) (#1745 on Dialogic Fax Server)
7. Antares L&H TruVoice™ TTS (00-1748-006) (#1748 on Dialogic Fax Server)
8. Antares VCS ASR (00-2338-007) (#2338 on Dialogic Fax Server)
9. Antares Telefonica TTS (00-2534-005) (#2534 on Dialogic Fax Server)
10. Antares Telefonica ASR (00-2533-004) (#2533 on Dialogic Fax Server)
11. Antares CSELT (ELOQUENS® 2000) (00-2528-004) (#2528 on Dialogic Fax Server)
12. Antares CNET ASR (Phil90®) (00-2517-004) (#2517 on Dialogic Fax Server)
13. Antares CSELT ASR (AURIS®) (00-2527-004) (#2527 on Dialogic Fax Server)
14. Antares CSELT ASR (Flexus® 1000) (00-2529-004) (#2529 on Dialogic Fax Server)

Background Documentation

1. “Don’t Touch That Dial — Voice Recognition Enters the Network” (A magazine article. Aurum Code: dont_touch)
2. Speech Rec’s Many New Opportunities (A magazine article. Aurum Code: reprint_spch)
3. Demonstrations for Telephone Speech Recognition (A comprehensive list. Aurum Code: demo_sr)
4. ASR and TTS Technology and Applications Overview (Sales Bulletin #3054. Also available as #2555 on Dialogic Fax Server)

General Publications

Books

1. Peter Foster and Dr. Thomas B. Schalk, *Speech Recognition, The Complete Practical Reference Guide*, Telecom Library, Inc., NY, August 1993.
2. Marc Robins, *The Speech Recognition Reference Manual and Buyer’s Guide*, Robins Press, Riverdale NY, 1994.
3. Bob Edgar, *PC-Based Voice Processing*, Parity Software Development Corporation, Second Edition, 1994.
4. Peter B. Denes, Elliot N. Pinson, *The Speech Chain*, W. H Freeman & Co., NY, 1993.
5. Christopher Schmandt, *Voice Communications With Computers*, Van Nostrand Reinhold, 1994.
6. Judith A. Markowitz, *Using Speech Recognition*, Prentice Hall PTR, 1996.

Trade Publications

1. **Speech Recognition Update**
TMA Associates
P.O. Box 17598
Encino, CA 91416-7598
Phone: 1-818-708-0962
2. **ASR News**
Voice Information Associates, Inc.
P.O. Box 625
Lexington, MA 02173
Phone: 1-617-861-6680
3. **Speech Technology**
CI Publishing Corp.
43 Danbury Road
Wilton, CT 06897
Phone: 1-203-834-1430

Web Sites

The following sites contain information directly related to speech technologies (such as technology descriptions/applications, research, research institutions, etc.):

http://mambo.ucsc.edu/psl/speech.html	Speech research
http://www.cse.ogi.edu/CSLU	Oregon Graduate Institute of Science & Technology

You can also search under “speech recognition” using any of Web’s search engines.

Research Facilities

Following is a short list of research institutions/labs that specialize in speech technologies.

Oregon Graduate Institute of Science & Technology

Center for Spoken Language and Understanding

c/o Ron Cole

P.O. Box 91000

Portland, OR 97291-1000

Phone: 1-503-690-1142

Web: <http://www.cse.ogi.edu/CSLU>

Spoken Language Systems Group

c/o Victoria Palay
MIT Laboratory for Computer Science
545 Technology Square
Cambridge, MA 02139

Phone: 1-617-253-8924
Fax: 1-617-258-8642
Web: <http://www.sls.lcs.mit.edu>

Carnegie Mellon University

Interactive Systems Laboratories
School of Computer Science
Pittsburgh, PA 15221

Phone: 1-412-268-7676
Fax: 1-412-268-5593
Web: <http://www.is.cs.cmu.edu/>
<http://www.speech.cs.cmu.edu/speech>

University of Pennsylvania

Linguistic Data Consortium
441 Williams Hall
University of Pennsylvania
Philadelphia, PA 19104-6305

Phone: 1-215-898-0464
Fax: 1-215-573-2175
Email: ldc@unagi.cis.upenn.edu
Web: <http://www.cis.upenn.edu/>

Designing User Interface for ASR/TTS Applications

The following people/organizations offer consulting services for designing user interface in ASR/TTS applications.

Ergo Research

Peter Mitchell, Ph.D.

83 East Avenue, Suite 208

Norwalk, CT 06851-4902

Phone: 1-203-838-0500

Users First, Inc.

Martha J. Lindemann, Ph.D.

Columbus, OH

Phone: 1-800-787-3771

Bruce Balentine, Design Consultant

517 Roberts

Denton, TX 76201-2028

Phone: 1-817-382-2143

Fax: 1-817-387-9515

Email: bruce@denton.com

Data/Compression Algorithms Based on Antares

DSPSE

DSP Software Engineering Inc. offers the following algorithms that can be enabled on the Antares platform (for details, contact DSPSE — see the Diamond Technology Developers section):

Voice and Audio Compression

TIA IS-54 VSELP

DSPSE Low Memory CELP

DSPSE Multi-Rate CELP

DSPSE VoiceWave

ITU G.728 LD-CELP

ITU G.726 ADPCM

ITU G.723 CELP

ITU G.722 SB-ADPCM

ITU G.711 μ -law/A-law compander

FAX and Modems

ITU V.22bis/Bell212A Modem

ITU V.32bis Modem

ITU Group 3 Fax

Bell 103 Modem

DSPSE V Series Modem Interface

Telephony

IDEC-II Acoustic Echo Canceller

Telco Call Progress Generator/Detector

Telco DTMF Signaling Generator/Detector

Bellcore Caller ID Detector

ITU G165-T Audio Line Echo Canceller

DSPSE Audio Line Hybrid Echo Canceller

DSPSE Speech Time Scaler and Multi-rate Filter

Lernout & Hauspie (L&H)

L&H offers the following speech compression algorithms that can be enabled on the Antares platform (for details, contact L&H — see the Gold Technology Developers section):

Product	Coding Rate (Kb/s)
L&H.smc250	2.4
L&H.smc350	3.4–9.6
L&H.smc355	4.8–8.9
L&H.smc450	16–17.5
L&H.smc550	LD-CELP 16 Kb/s
L&H.smc650	ADPCM 32 Kb/s

Antares Porting consulting

The following companies provide expert advice and service for porting algorithms to the Antares platform under (and between) a variety of operating systems.

DSP Software Engineering, Inc.

175 Middlesex Turnpike

Bedford, MA 01730

A provider of highly complex digital signal processing software used in telecommunications and multimedia applications such as computer telephony, digital wireless, PSTN and satellite communications, and videoconferencing.

Phone	1-781-275-3733
Fax	1-781-275-4323
Web Home Page	Http://www.dspnet.com
Contacts	Mike Gaudette Director, System Engineering Email: mike@dspse.com
	John Della Morte Vice-president, Development
	Joe Della Morte CEO
	Bob Wang GM International Sales Email: bob@dspse.com

Interface Alternative, Inc.

3088 State Highway 27

Kendall Park, NJ 08824

Interface Alternative, Inc. are experts in advanced IVR system design and system integration. They have brought ASR and TTS features to a number of the voice processing industries' leading toolkits.

Phone	1-908-398-1600
Fax	1-908-398-0244
Web Home Page	http://www.mcsp.com/ia.html
Contacts	Jeff Dworkin President and Managing Director Email: jeff@iface.com

	Alex Vishnev Vice-president and Technical Director
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TCOM, Inc.

14 Ridgedale Avenue
Cedar Knolls, NJ 07927

A software technology consulting firm specializing in the design, development, and porting of device drivers and other low-level software technology including firmware and ancillary products such as libraries, DLLs, utilities, and testing suites.

TCOM has significant experience with Antares software development and porting including device driver, technology SDK, technology library, and technology porting and development.

Phone	1-973-539-1777
Fax	1-973-539-1885
Contacts	Thom Butler Vice-president, Business Operations Email t.butler@tcom-inc.com

General ASR/TTS Consultants

Gary Wright

Applied Speech Resources™
4849 Frankford Road #1112
Dallas, TX 75287
Phone: 1-972-713-9758
Email: gwright@cyberramp.net

Applied Speech Resources provides a wide variety of consulting services involving the integration of automatic speech recognition (ASR) and text-to-speech (TTS) into telephony applications. These include

- Development of strategies for integrating ASR and TTS into computer telephony platforms and applications
- Development of strategic marketing plans for telephony products and services including ASR and TTS
- Design of speech recognition interfaces for interactive telephony applications
- Determining product requirements for projects including ASR and TTS
- Competitive evaluation of commercial ASR and TTS products
- On-site training in the application of ASR in telephony applications

Bill Meisel, Ph.D

TMA Associates

P.O. Box 17598

Encino, CA 91416-7598

Phone: 1-818-708-0962

Fax: 1-818-345-2980

John Oberteuffer

Voice Information Associates

P.O. Box 625

Lexington, MA 02173

Phone: 1-617-862-8185

Fax: 1-617-863-8790

Web: <http://www.tiac.net/users/asrnews>

Judith A. Markowitz, Ph.D

Voice ID Consultants

Technology Innovation Center

Northwestern University Research Park

1840 Oak Street

Evanston, IL 60201

Phone: 1-773-769-9243

Fax: 1-773-769-9253

Email: jma057@nwu.edu

Providing the human side of computing

- Voice ID security
- Speech recognition
- Human interface design
- Knowledge-based systems

00-3373-005
11-25-98