

SRI International

DynaSpeak®

Speech Recognition Engine

DynaSpeak combines the reliability and accuracy of a high performance, server-based speech recognizer with the advanced new features essential to mobile applications. These features include: footprint miniaturization to fit mobile processors; speaker and noise adaptation for noisy environments; rapid grammar switching to support dynamic applications from a single recognizer; and lightweight grammar updates that enable use with remote data services and natural-language engines.

DynaSpeak is a product of SRI's Speech Technology and Research Laboratory, a world leader in speech technology research.

Features

- *Small footprint: 750KB–2MB enables compact deployment*
- *Statistical grammar option for natural language and domain-specific dictation*
- *Adaption to background noise*
- *Compact grammars for fast updates*
- *Speaker adaption improves recognition with each new utterance*
- *Non-native speech models for robustness to strong accents*
- *Support very large vocabulary (50,000+ words)*



Full-Featured Speech Recognition Engine for Scalable Use in Smartphones to Cloud Servers

Specifications

• *Minimum Processor Requirements*

200 MHz StrongArm

66 MHz Intel x86

Support for other hardware available on request

• *Minimum Memory Requirements (KBs)*

Total: 750

Executable (ROM): 350

Acoustic Models (ROM): 100

Active Search (RAM): 300 or greater for highly complex grammars

• *Supported Languages*

Adults: American & British English, Latin American Spanish, Iraqi Arabic, Pashto, and Dari (others on request)

Children: American English

Grammars: Statistical or JSGF forms; static or dynamic; dictation option

• *Software Environments*

Operating Systems: Windows, Mac OSX, Linux, and Android (others on request)

Development: C/C++, Java (via JNI), client/server versions available

SRI International

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Commemorating its 65th anniversary in 2011, SRI is known for world-changing innovations in computing, health and pharmaceuticals, chemistry and materials, sensing, energy, education, national defense, and more.

SRI Sarnoff is well known for its broadcasting, vision, and semiconductor innovations.

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