

Bring Life to Your Products

Sensory's FluentSoft™ SDK enables you to integrate revolutionary high quality, advanced speech recognition technology into your high-end embedded consumer electronics while using moderate amounts of memory and CPU resources. Improve your user's experience with your products with a broad range of voice recognition functionality.

Sensory's FluentSoft SDK delivers large vocabulary, highly accurate, noise robust, speaker independent (SI) speech recognition, capable of accommodating a wide variation in accents. It allows integration of high-performance speech recognition functions into devices including music players, Internet appliances, smart phones, PDAs, navigation gear, set-top boxes, and other consumer electronics devices.

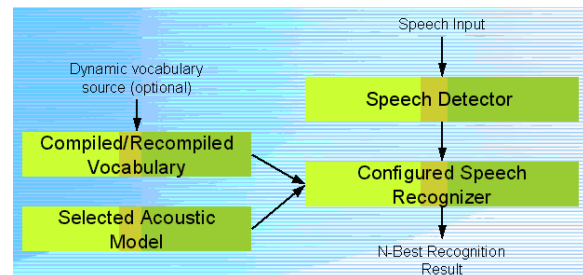
No training is required! Sensory's FluentSoft phonetic recognition engine can build new vocabularies by implementing dynamic text-based recognition-set creation--even on the device. Highly scalable, vocabulary size and response time can be selected based on available processing power and memory.

Advanced features like word spotting, phrase spotting, and continuous recognition work together to eliminate the limitations of discrete word command-and-control, creating a more natural user interface.

Sensory's FluentSoft SDK is designed to run on a variety of hardware platforms and operating systems. MS Windows, Linux and Symbian OS' are supported on either Intel or ARM processor cores.

Creating a FluentSoft Application

The FluentSoft SDK provides a streamlined, process to create robust voice recognition applications. Develop and compile your application on the desktop, then copy to your target platform.



- **Compile Vocabulary** – Specify a text-based vocabulary or an advanced grammar-based vocabulary depending upon your application. Note that new recognition sets can be created on the fly from incoming text data, essential for applications with dynamic databases. Because FluentSoft works with or without a file system, you can build and store the vocabulary as a file or in memory.
- **Configure Speech Detector** – Reduces resource utilization by filtering when to activate the Recognizer.
- **Select Acoustic Model** – In addition to selecting a language, Sensory's FluentSoft SDK allows you to optimize limited memory resources for best accuracy results.
- **Configure Recognizer** – Tune recognition parameters that affect confidence levels and recognition speed. Configurable detection and recognition parameters allow you to improve performance under variety of environments.





FluentSoft provides value across a range of applications including:

- Mobile/Wireless Devices (*PDA, Phones, GPS*)
- Connected Devices (*Internet Appliances, MP3, Set top box*)
- Automotive (*Navigation, Command & Control*)
- Medical Devices & Industrial Automation
- Security Products

SDK Components:

- Dynamic software libraries
- Sample Projects and Data
- Hyperlinked Documentation
- Optional Platform packs to expand support for new platforms
- Optional Language packs to expand support for new languages
- Support for general-purpose or task-specific (e.g. Digits) vocabularies
- PC Recognizer Demo for rapid conceptualization

System Requirements:

- MS Windows (9x/ME/NT/2000/XP) or Linux for development platform
- 32 MB RAM
- 10 MB free hard disk space
- Sound card and microphone
- ANSI C development environment

KEY FEATURES

Speech Technologies:

- Phrase and Wordspotting
- Hybrid Neural Net/HMM Phonetic, SI Recognition
- Continuous Digits Recognition
- Provides N-best recognition results
- Small Footprint

Vocabulary:

- Large Vocabularies of thousands of words
- Runtime or Offline Recognition Set Creation
- Grammar Specification
- International Language Support - *American English, Mandarin, Japanese, Latin American Spanish, German, and more in development*

SDK Features:

- ANSI C Implementation
- Modifiable example code
- API to provide/build vocabulary/grammar
- API to tune speech recognition and detection engines

Operating Systems and Platforms Supported (note ports are OS and processor dependent)

- Microsoft Windows Family / x86
- Pocket PC & Smartphone 2002/2003 (and emulator) ARM9-based*
- Linux / x86
- Embedded Linux / ARM9-based*
- Symbian / ARM9-based*
- Palm OS 5
- Custom solutions available

* ARM9-based processors include StrongARM, Xscale, and OMAP platforms

KEY BENEFITS

- High accuracy speaker independent (SI) SR
- No Training Required
- Command Sequence Recognition
- Broad range of speech functionality
- Keyword activation for hands free control
- Robust performance in noisy environments
- Natural User Interface
- Portable across a variety of platforms and architectures
- Scalable vocabularies

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