

SVOX Mobile Speech Recognition

DEDICATED TO CUSTOMER SUCCESS

Experience with high-profile projects
SVOX Professional Services offer mobile customers undivided attention. The team has amassed unique experience and understanding of the industry needs by running numerous successful and “industry-first” projects for SVOX customers.

Complete, industrial-grade tool chain

The value that customers can get from using SVOX Mobile is greatly enhanced by the availability of a complete, industrial-grade tool chain that makes it possible to execute big and complex speech projects efficiently. Such tools as SpeechCreate allow customers to achieve the desired speech quality level, while keeping costs down.

ABOUT SVOX

Profile

SVOX, a leading supplier of embedded speech solutions, has a reputation for quality and customer focus. SVOX drives adoption of speech user interfaces in automotive and mobile device industries. The company offers Speech Recognition (ASR), Speech Output (TTS) as well as complete Speech Dialog solutions.

History

Founded in 2000 as a university spin-off, SVOX is a fast-growing privately held company headquartered in Switzerland and with offices in Ger-

many and the USA. As of middle 2009, SVOX had about 90 permanent employees and more than 100 language experts employed on a project basis.

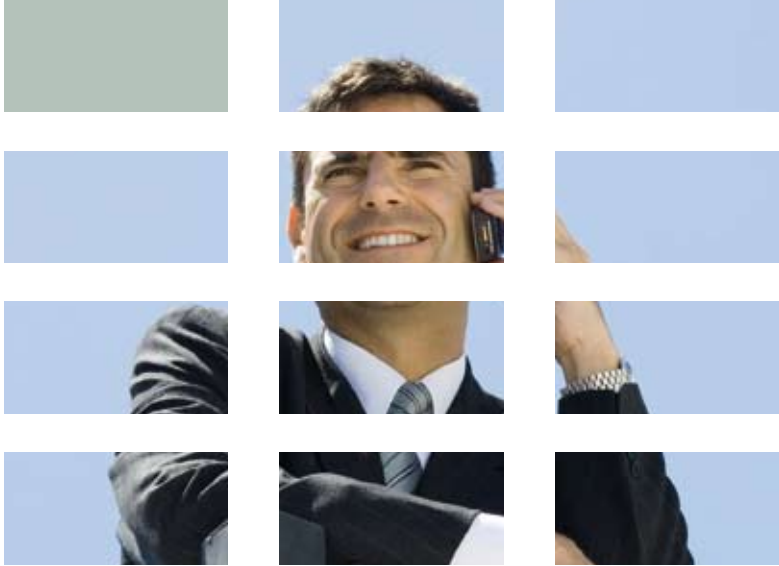
References

SVOX is proud to be a partner and supplier of leading companies including Android, Asahi Kasei, Audi, BMW, Continental, Elektrobit, Ferrari, Google, HarmanBecker, Hyundai, Mercedes-Benz, Nissan, Nokia, Peugeot, Porsche, Renault, Volkswagen and Xanavi.

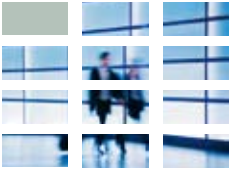


SVOX AG
Baslerstrasse 30
CH-8048 Zürich
Switzerland

Phone +41 43 544 06 00
Fax +41 43 544 06 01
info@svox.com
www.svox.com



SVOX Mobile
Speech
Recognition



SVOX Mobile Speech Recognition

Polyglot, Accurate

SVOX Mobile Speech Recognition solutions allows customers to enable reliable and accurate Automatic Speech Recognition in their mobile products. Specifically tailored for embedded mobile use and with a rich choice of languages covering all important markets, the solution is distinguished by a unique polyglot capability – recognition of words and phrases originating from several languages. Superior recognition rates in high-noise environments are achieved through the use of advanced noise reduction techniques.

Portable, Scalable

Available in a wide variety of footprints and configurations, SVOX Mobile ASR can scale from basic handsets to powerful smartphones – all using the same, uniform base technology. Porting to various embedded environments is straightforward thanks to platform-independent, modular architecture.

Technical specifications

All values in the table are approximate, exact values differ depending on the platform.

SVOX Mobile ASR solutions can scale from basic handsets to powerful smartphones.



	SVOX Mobile ASR Compact	SVOX Mobile ASR Standard	SVOX Mobile ASR Advanced
Code size, ROM (ASR engine)	200 KB	700 KB	800 KB
Generalist HMM, ROM (per language)	200 KB (80 KB compressed), 7,500 prototypes	200 KB (80 KB compressed), 7,500 prototypes	500 KB (200 KB compressed), 20,000 prototypes
Digits HMM/spelling HMM, ROM (per language)	140 KB/140 KB (60 KB/60 KB compressed)		
Vocabulary and grammar, ROM (per language)	15–200 KB (control of menu system in simple mobile phones)	15–200 KB (control of menu system in simple mobile phones)	2 MB (complex dialogs in high-end smartphones or PNDs)
Vocabulary and grammar, RAM (per language)	150 KB (control of menu system in simple mobile phones)	150 KB (control of menu system in simple mobile phones)	5 MB (complex dialogs in high-end smartphones or PNDs)
Recognition with database of 70,000 city names, RAM	N/A	10 MB	
Supported APIs	C/C++ SVOX API*	C/C++ SVOX API MS SAPI v5.0 (Win32 and WinCE)*	
Chipsets supported	X86, SH4, X-Scale, Strong ARM, ARM7-9-11, OMAP, TI Jacinto, MIPS*		
OS supported	MS WinCE, MS Windows, Linux, Symbian*		
Languages	Canadian French, Czech, Danish, Dutch, Finnish, French, German, Greek, Italian, Japanese, Korean (2010), Mandarin Chinese, North American Spanish, Portuguese, Russian (2010), Spanish, Swedish (2010), UK English, US English		
Continuous and isolated word recognition with grammar and n-best support	■ (no n-best)	■	■
Dynamic vocabulary switch		■	■
Grapheme-to-phoneme conversion		■ (one language)	■ (Polyglot)
Sophisticated spell matching			■
Speaker-dependent training for new words (say-in)	■	■	■
Speaker adaptation for digits and open vocabulary			■
Predefined rejection scenarios for word spotting		■	■
Phoneme set conversion		■	■
Generic music title selection module			■
Multistep search for one-shot destination entry			■
Platform-independent implementation, portable source code in ANSI-C, integer arithmetic	■	■	■
JSGF-Parser and graphical grammar editor	■	■	■

* Others available on request