

ReadSpeaker® speechEngine SAPI

ReadSpeaker speechEngine SAPI provides a vast portfolio of highly accurate, intelligible ReadSpeaker TTS voices to use with Microsoft Speech API-compliant software.

Product Description

ReadSpeaker speechEngine SAPI can be used to speech enable a variety of Microsoft Speech API compatible programs for screen reading, e-learning, screencasting, audio publishing, IVR and more. Examples of such software are: Adobe Captivate (Authoring), NextUp (MP3 generation software), flight simulation software, accessibility software, ATM machines, etc. You can choose from an increasingly wide range of VoiceText SAPI voices to make your application appeal to a global audience.

ReadSpeaker speechEngine SAPI also supports multithreaded server use.

SAPI stands for Speech Application Programming Interface. ReadSpeaker speechEngine SAPI is essentially a license to use one or several voices with Microsoft SAPI5. The installer consists of speech engine libraries, voice specific

files and documentation. The context within which the voices(s) and the audio produced with the voice(s) may be used, usually the name and a description of the app or device that will be speech-enabled, is governed by a required separate license agreement.

Features

Leading synthetic speech for superior customer experience

ReadSpeaker's text-to-speech voices are extremely accurate, clear and natural, designed to deliver the highest quality sound and exceptional performance every time and are continually optimized.

50+ voices in 30+ languages available

New voices are being developed all the time. Presently, ReadSpeaker has TTS voices that can be used for ReadSpeaker speechEngine SAPI available in 30+ languages and 50+ voices. For a complete list of available languages go to [our languages web page](#) and please contact your Account Manager if you would like to use a language not presently supported.

Modifiable speaking rate, pitch, and volume (DSP)

The speaking rate, pitch, and volume can be configured as desired.

Voice/language switch

Switching to another language or to another speaking voice in the same language during the conversion from text to speech is supported.

User dictionary

The voice specific files included in ReadSpeaker speechEngine SAPI for each licensed language include a dictionary file, the user dictionary, in which the customer can customize the pronunciation of words or sequences of words in a specific way to increase the quality of the reading. The user can create multiple user dictionaries per language if required.

Viseme output support

speechEngine SAPI can output information for syncing mouth movements.

Technical Specifications

Supported Operating Systems

- Windows 7, 8 and 10

Supported architecture

Intel 32 and 64 bit (x86/x86_64)

CPU

1 GHz or higher

RAM

2 GB or more is recommended

Voice footprint

64 MB - 2.2 GB per voice developed using Unit Selection Synthesis (USS) technology

Runtime memory

- 35 MB ~ 90 MB (USS)

Supported text input formats

- Plain text
- SAPI XML

Supported character encoding for text input

- UNICODE

Supported audio formats

- 16-bit linear PCM Wave

Voice/language switch

Switching to another language or to another speaking voice in the same language can be realized through a SAPI tag in the input text.

Simple implementation

ReadSpeaker speechEngine SAPI is easy to install using the supplied installer and will immediately make the licensed voices available in your SAPI application.

Installation and implementation support

ReadSpeaker speechEngine SAPI includes implementation support by our Support Team, who will assist the customer wherever necessary in understanding the instructions to carry out the integration.

License file required

The use of ReadSpeaker speechEngine SAPI is governed by a required separate license agreement. This license agreement determines which voices are licensed and the context within which the product may be used, usually the name and a description of the application that will be speech-enabled. It also specifies technical restrictions to the text-to-speech conversion, such as the synthesis speed rate. A license file is a part of the product and technically enforces

elements of the license agreement. The agreement is based on trust that the customer will not exceed the specified use.

Product Components

ReadSpeaker speechEngine SAPI is delivered as an installation package made for Windows operating systems. It comes in the form of an .exe file for end users OR as library files for software developers. Once the .exe file is executed within Windows (end user version), it loads different libraries and registry files within Windows OS. When the very simple straightforward Windows installation process is complete, Windows and any other software that is enabled to recognize SAPI voices can recognize the installed voice(s).

ReadSpeaker TTS Engine

The ReadSpeaker TTS Engine includes the voice database and a pronunciation dictionary for each licensed language/voice. The voices database(s) contain audio fragments which are used by the TTS Engine for voice synthesis. The TTS engine is called upon by the application to convert text to voice.

User documentation

Includes the implementation instructions.

Requirements and Limitations

Scope of use

ReadSpeaker speechEngine SAPI may only be used within the context and with the restrictions described in the license agreement. These will include for which application the product was licensed and the intended use of that application.

Intended Use

Customers may only use ReadSpeaker speechEngine SAPI in accordance with this product specification and the separate required license agreement.

Any other use of ReadSpeaker speechEngine SAPI is not considered intended use.

Disclaimer

Features listed in this document are guaranteed only if ReadSpeaker speechEngine SAPI has been implemented according to our implementation instructions. Specifications and features as described in this product specification can be changed by the manufacturer without prior notice.