

Loquendo TTS

TEXT TO SPEECH

Loquendo TTS software brings you truly natural sounding voices able to read any kind of dynamic data and prompts in your server-based, multimedia, embedded and multimodal voice applications.

Loquendo is the very first company to bring expressive synthetic speech to the market: new, high-quality voices guarantee Loquendo's market leadership in quality, efficiency and portability as well as in pronunciation accuracy, natural timbre and intonation.

Loquendo is the only speech technology vendor that provides a complete product line guaranteeing the same wide range of high-quality voices and languages, and the same core engine for all these environments.

The Benefits to You...

Give your users the **best available TTS technology** for IVR (banking, government...), live news, accessing business documents, e-learning, entertainment, automotive telematics, email reading and any embedded application - there are no limits!

Loquendo's truly lifelike TTS means there's no need for costly, time-consuming pre-recording, and it enables the **rapid deployment of vocal services** that customers will love using.

Loquendo's voices are **expressive, clear, natural and fluent**: they have been enriched with a repertoire of "expressive cues" that allow for **highly emotional** pronunciation.

Two ways for creating your own audio files are available:

- **Loquendo TTS Director** – a complete development environment for creating your own voice prompts, tuning them and saving customizations.
- **Loquendo TTS Voice Experience** – designed in a games console style, this is a highly interactive and user friendly environment in which voice parameters can be easily and rapidly adjusted.

With all this at your disposal, you can get Loquendo TTS voices talking just the way you want them to!

A World of Languages & Voices...

Loquendo gives its customers expanded reach in today's global marketplace. Loquendo TTS is a rapidly growing family of expressive voices and personas from around the world.

Loquendo's research and highly efficient methods of development enable the rapid release of new, high-quality voices and languages, as well as customized voices to suit your corporate profile.

To discover more about Loquendo's latest TTS successes, visit our interactive TTS Demos at: www.loquendo.com.

Loquendo TTS Director

Loquendo TTS Director is a complete Java environment (also available in client-server configuration) for creating your own voice prompts. It gives developers complete control over their voice applications so they can really enhance the user experience. Text is written in the edit box and interactively refined through a "listen & edit" procedure, which allows "fine-tuning" for even better TTS performance. Its many features include:

- A repertoire of "**expressive cues**" – commonly used phrases, such as "*How are you?*" or "*You've got to be kidding!*" and paralinguistic events such as yawning, coughing and laughing - enable highly expressive pronunciation, creating extremely natural sounding speech.
- "**Plug-in lexicons**" – make possible the reading of specific types of text (e.g. SMS abbreviations, emails).
- **Lexicons Manager** – is the tool to create and edit lexicons.
- **Mixed Language Capabilities** – allows the reading of multilingual texts: it has a built-in **language guesser** that automatically identifies the language of any text so that, through **phonetic mapping**, any of Loquendo's voices can pronounce any foreign word.
- **Audio Mixer** – gives you complete control over all audio sources (for music or other sounds there is a choice of sampling rates and coding): audio files can be mixed, looped, faded in and out, or synchronized with synthetic speech.
- **Voice Creator** – gives you the possibility to modify an existing voice and save it as a new one.
- **User-Driven Unit Selection Tool** – enables the user to perform an alternative acoustic unit selection from the speech database - so giving you the maximum flexibility for the smoothest pronunciation and intonation possible.
- **Reading Style** – allows prompt designers to activate/deactivate predefined reading styles.

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A Technological Leap...

Loquendo TTS delivers the highest levels of **flexibility, scalability, performance** and **robustness**; its multi-threaded, multi-process configuration supports deployment in any high performance software architecture, meeting all your business and technical requirements.

Loquendo TTS has highly performant algorithms and guarantees an extremely rapid response. The speech engine can synthesize different languages and voices simultaneously, switching between them at any time and on any channel. It is designed for use in any kind of voice application, including highly intensive TTS.

The **Pronunciation Lexicon** ensures that specialized vocabulary, abbreviations, acronyms and even regional pronunciation differences sound just as the developer intends them to. The characteristics of each voice (i.e. pitch, speaking rate and volume) can be **fine tuned** and fully **controlled**. Special formats such as phone numbers, currencies and e-mail addresses can also be read correctly.

Loquendo TTS is available for **Telephony, Multimedia** and **Embedded** applications, guaranteeing the same wide range of high-quality voices and languages, all with the same core engine.

Loquendo TTS - Technical Specifications

	Loquendo TTS Telephony	Loquendo TTS Multimedia	Loquendo TTS Multimedia Compact (Embedded)
Simultaneous Channels	Virtually unlimited	2 Channels	2 Channels
Memory Requirements	10 MB RAM for the engine, 80 MB per voice 3 MB per channel	10 MB RAM for the engine, 50 MB per voice, 3 MB per channel	10 MB RAM for the engine, 20 MB per voice
Sampling Rate	8 KHz PCM (linear, A-law, μ -law) mono	PCM mono/stereo. Any sample rate up to 48 KHz	
Licensing	Rapid network-based upgrade of language/voice/#ports	Serial number based	
CPU Requirements	Any Pentium family processor (or equivalent)		
OS Supported	MS Windows (7, XP, Vista, Server 2003, Server 2008*); Red Hat Enterprise Linux 3, 4, 5*; SUSE Linux 10, 11 * also available for 64 bit version		
Interfaces	C/C++ Loquendo API SAPI 4 and 5 (Win 32) Loquendo TTS ActiveX (Win 32)	Microsoft .net W3C SSML 1.1 W3C PLS 1.0	
Multilingual & Multivoice	Norwegian, Swedish, Danish, Finnish, Australian English, U.S. and U.K. English, Russian, Mandarin Chinese, French, Canadian French, American Spanish, Mexican, Chilean and Argentinian Spanish, Castilian, Catalan, Valencian, Galician, Brazilian, Portuguese, Esperanto, German, Dutch, Polish, Greek, Turkish, Italian, Arabic, Romanian*, Japanese*, Indian English* (* under development)		
SDK	TTS Director (includes also Lexicons Manager and Voice Creator); TTS Voice Experience; User and Developer Documentation		
Key Features	<ul style="list-style-type: none"> • Expressive TTS • Mixed Language Capability: <i>Phonetic Mapping, Language guesser</i> • Dynamic switching between multiple voices • Pronunciation lexicon - for user definable pronunciation (acronyms, foreign names, etc.) • Flexible voice control - for creating special effects, modifying speech rate, pitch and timbre • Voice Flavour - support for different compression and sampling rates • Variable output frequency coding up to 48 kHz • Audio Mixer • Built-in audio effects, i.e. reverb, stereo balance, graphic equalizer • SMS and E-mail preprocessing • Customized voices - for extending corporate image and branding through unique voices • Support of the phonetic alphabet X-SAMPA (TeleAtlas® and Navteq™ extensions included) and IPA • Interactive SSML validation 		

For Network/Telephony solutions see the **Loquendo MRCP Server** brochure. For Embedded solutions see the **Loquendo Embedded** brochure. To find out how Loquendo TTS can position your company for success, please visit www.loquendo.com and try our interactive TTS demo.

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