

Cerence TTS (Text-to-Speech)

Cerence's new generation of cloud and embedded text-to-speech solutions

Cerence TTS transforms the voice assistant experience by offering the most natural text-to-speech for every cloud and embedded use case.

Cerence TTS is offered through Cerence Cloud Services and embedded SDKs for Windows and Linux. Android and iOS-OSX are supported via Cerence SDK, with additional platforms supported through Cerence Professional Services.

Cerence TTS is a suite of speech output solutions to generate high-quality speech, with seamless blending of dynamic text-to-speech, pre-recorded audio, and tuned prompts. Cerence TTS is optimized to read long texts in a natural, human way. New, deep learning-based algorithms deliver higher smoothness and more natural prosody, resulting in a unique voice experience. Cerence TTS is available through distribution partners for automotive and non-automotive applications:

Transportation

- Route guidance
- Passenger information
- Infotainment

Accessibility

- Screen readers for PC and mobile phones
- Daisy book readers
- Talking kiosks & ATMs

Consumer electronics

- Phones
- · e-Book readers
- Toys and gaming
- Electronic dictionaries

Industrial

Warehouse logistics

Public Announcements

65 languages and 147 voices

Cerence TTS offers the world's largest language and voice portfolio:

- Arabic Gulf & Levantine Argentinean
- Bengali • Bhojpuri
- Brazilian
- Spanish Portuguese • Australian English • British English
- Basque
- Belgian Dutch Belgian French
- Bulgarian
- Canadian French
- Cantonese
- Catalan
- Chilean Spanish
- Chinese
- Mandarin
- Croatian
- Colombian
- Spanish Czech
- Danish
- Dongbei
- Dutch
- Farsi • Finnish
- French
 - Galician • German
- Greek
- Hebrew
- Hindi
- Hungarian
- Indian English
- Indonesian
- Irish Fnalish Italian
- Japanese • Portuguese
- Kannada
- Korean
- Malav
- Marathi
 - Mexican Spanish
- Norwegian Polish
- Romanian
- Russian
- Scottish English
- Shaanxi
- Shanghainese
- Sichuanese Slovak
- Slovenian • South African
- English
- Spanish Ukrainian
- Swedish • US English
- Taiwanese
 - Valencian

• Telugu

Turkish

• Thai

• Mandarin Vietnamese • Tamil

The most natural and dynamic text-to-speech user experience

Al for a World in Motion

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Cerence TTS

With a broad range of options, Cerence TTS offers an excellent quality trade-off for a variety of platforms and applications.

Embedded Code Size

The code size for a fully featured Cerence TTS Embedded engine is 7 to 13.7 MB depending on the target platform. This can be optimized based on required language set, features and compiler choices.

Voice and Language Data

Voice Operating Point (VOP)	Flash size (excl. Code)	RAM Usage
Embedded Pro High-quality TTS optimized for navigation, in-car infotainment readout; basic SMS reading capabilities	Average: 56MB Max: 125 MB	Average: 16 MB Max: 35 MB
Embedded High High-quality TTS read-out for SMS, news, e-mail reading on embedded targets, suitable for all types of applications and use cases	Average: 120 MB Max: 338 MB	Average: 25 MB Max: 73 MB
Embedded Premium Highest-quality deep learning based concatenative synthesis available for selected voices	Average: 245 MB Max: 559 MB	Average: 139 MB Max: 252 MB

Multi-lingual voices include recorded material for one or several foreign languages. They are released for all operating points except Embedded Compact and require up to 50% more memory (flash and RAM) compared to the numbers above.

Embedded SDK Platforms

PC	Windows: 32-bit and 64-bit	
	Linux x86: 32-bit and 64-bit	
Devices	Linux ARM: ARM32 Hardfp, ARM32 Softfp,	
	ARM64	

Feature	Benefits
Emotional TTS	Developers can choose from four different speaking styles: neutral, lively, forceful, and apologetic
Gilded speech databases	Speaking styles are enhanced by selecting expressive pre-recorded prompts (incl. non-verbal) from a "gilded speech" database accompanying the TTS voice
Gender neutral voice	New timbre markup tag controls the perceived age, gender, or physical size of a TTS voice
Multi-lingual support	Automatic language identification, foreign language dictionaries, and high-quality acoustic extensions provide unparalleled multi-lingual readout
Domain intelligence	Use markup tags to improve the readout of an address, date, phone number, number, spelling, currency, and more
Prosody control	Volume, pitch, speaking rate, and timbre can be changed at run time for more dynamic and lively effects
Phonetic input	Optimize quality using phonetic information from external content sources like music or map data
User text rules	Write regular expressions to expand custom abbreviations and text patterns
User dictionaries	Create your own dictionaries for out-of-vocabulary words
Prompt sculpting	Change unit selection results manually to increase expressivity and remove glitches (requires Cerence TTS Designer)
Seamless prompt insertion	Recorded audio prompts or tuned prompts are seamlessly blended with dynamic text-to-speech using automatic text matching (active prompt mechanism)
Cerence TTS Designer	A comprehensive Windows tool to create TTS tuning resources like user text rules, user dictionaries, and prompt databases
Languages and Voices	A truly universal voice portfolio offers 65 languages and 147 voices for the creation of global solutions using a single engine. The language and voice portfolio is continually expanding
Accuracy	High linguistic accuracy offers correct readout for all types of text, including a large set of personal names
Scalability	A wide range of embedded footprints scaling from 20 to over 550 MB ensures optimal performance from low cost platforms to powerful multimedia systems
SSML	Speech Synthesis Markup Language (SSML) allows for TTS vendor-independent markup
Daily dictionary updates	Daily dictionary updates are offered through Cerence Cloud, guaranteeing accurate pronunciation of trending words/names in the news domain. 10 languages (en-US, en-UK, fr-FR, fr-CA, it-IT, de-DE, es-ES, es-MX, pt-PT, pt-BR) are supported

