Cerence Language Portfolio

October 2019

cerence™

Cerence currently supports:

- 63 Languages and 140 voices for embedded and cloud Text-To-Speech – Cerence TTS

- 39 Languages for embedded speech recognition – Cerence ASR - embedded

- 43 languages for cloud speech recognition – Cerence ASR - cloud

- 29 languages for automotive cloud ASR&NLU packages – Cerence Drive Domains

- 55 languages for Handwriting – Cerence Handwriting

- 110 languages for Text Input – Cerence Keyboard

cerence

Cerence Language Portfolio (1/2)

Language	ASR	TTS	ASR	NLU	TTS	HWR
Arabic (Gulf Region)	✓	✓	✓	✓	✓	✓
Basque		✓			✓	✓
Bengali		✓			✓	
Bhojpuri		✓			✓	
Bulgarian	✓	✓			✓	✓
Cantonese – CN	✓	(✓)	✓	✓	(✓)	✓
Cantonese – HK	✓	✓	✓	✓	✓	✓
Catalan		✓	✓		✓	✓
Croatian		✓	✓		✓	✓
Czech	✓	✓	✓	✓	✓	✓
Danish	✓	✓	✓	✓	✓	✓
Dongbei		✓			✓	
Dutch – BE	✓	✓	(✓)	(✓)	✓	✓
Dutch – NL	✓	✓	✓	✓	✓	✓
English – AU	✓	✓	✓	✓	✓	✓
English – GB	✓	✓	✓	✓	✓	✓
English – IE	(✓)	✓	(✓)	(✓)	✓	✓

Language	ASR	TTS	ASR	NLU	TTS	HWR
English – IN	✓	✓	✓	✓	✓	✓
English – SC	(✓)	✓	(✓)	(✓)	✓	✓
English – US	✓	✓	✓	✓	✓	✓
English – ZA		✓	(✓)		✓	✓
Farsi	✓	✓			✓	✓
Finnish	✓	✓	✓		✓	✓
French – CA	✓	✓	✓	✓	✓	✓
French – FR	✓	✓	✓	✓	✓	✓
Galician		✓			✓	✓
German	✓	✓	✓	✓	✓	✓
Greek	✓	✓	✓		✓	✓
Hebrew	✓	✓	✓		✓	✓
Hindi	2020	✓	✓	2020	✓	2021
Hungarian	✓	✓	✓		✓	✓
Indonesian	✓	✓	✓		✓	✓
Italian	✓	✓	✓	✓	✓	✓

All dates are calendar year (CY). Roadmap information is subject to change without notice.

Cerence Language Portfolio (2/2)

Language	ASR	TTS	ASR	NLU	TTS	HWR
Japanese	✓	✓	✓	✓	✓	✓
Kannada		✓			✓	
Korean	✓	✓	✓	✓	✓	✓
Malay	✓	✓	✓		✓	✓
Mandarin – CN	✓	✓	✓	✓	✓	✓
Mandarin – TW	✓	✓	✓	✓	✓	✓
Marathi		✓			✓	
Norwegian	✓	✓	✓	✓	✓	✓
Polish	✓	✓	✓	✓	✓	✓
Portuguese – BR	✓	✓	✓	✓	✓	✓
Portuguese – PT	✓	✓	✓	✓	✓	✓
Romanian		✓	✓		✓	✓
Russian	✓	✓	✓	✓	✓	✓
Serbian		2021			2021	✓
Shaanxi		✓			✓	
Shanghainese	✓	✓	✓	✓	✓	✓

Language	ASR	TTS	ASR	NLU	TTS	HWR
Sichuanese	✓	✓	✓	✓	✓	✓
Slovak	(✓)	✓	✓		✓	✓
Slovenian		Q4/19			Q4/19	✓
Spanish – AR	2021	✓	(✓)		✓	✓
Spanish – CL		✓	(✓)		✓	✓
Spanish – CO	2021	✓	(✓)		✓	✓
Spanish – ES	✓	✓	✓	✓	✓	✓
Spanish – MX	✓	✓	✓	✓	✓	✓
Swedish	✓	✓	✓	✓	✓	✓
Tamil		✓			✓	
Telugu		✓			✓	
Thai	✓	✓	✓	2020	✓	✓
Turkish	✓	✓	✓	✓	✓	✓
Ukrainian		✓	✓		✓	✓
Valencian		✓			✓	✓
Vietnamese		✓	✓		✓	✓

All dates are calendar year (CY). Roadmap information is subject to change without notice.

cerence

Cerence Language Portfolio - Comments

- This overview describes the currently available and planned languages per technology as of day of release of this document

- Entries in the tables and their meaning

Technologies	Icon		Availability	Icon
Cerence ASR & NLU – embedded	ASR		Language available	✓
Cerence TTS – embedded	TTS		Covered by other language (e.g. nl-NL for nl-BE)	(✓)
Cerence ASR – cloud	ASR		Language can be provided upon request	☞
Cerence NLU – cloud	NLU		Language shall be available by given time	Q4/19
Cerence TTS – cloud	TTS		Will be covered by other language by given time	(Q4/19)
Cerence Handwriting - embedded	HWR			

cerence

Nuance Automotive Speech Technologies

Abbreviations of Countries for Regional TTS Languages

- AR   Argentina
- AU   Australia
- BE   Belgium
- BR   Brazil
- CA   Canada
- CL   Chile
- CN   China
- CO   Colombia
- ES   Spain
- FR   France

- GB   Great Britain
- HK   Hong Kong
- IE   Ireland
- IN   India
- MX   Mexico
- NL   Netherlands
- PT   Portugal
- SC   Scotland
- TW   Taiwan
- US   United States
- ZA   South Africa

cerence

Voice Portfolio (1/2)

140 Voices available with Cerence TTS in November 2019

Language	Female	Male
Arabic Gulf	Mariam	
Arabic Levantine	Laila 🅖	Maged-ML, Tarik 🅖
Argentinian Spanish	Isabela	Diego 🅖
Australian English	Karen	Lee
Basque	Miren 🅖	--
Belgian Dutch	Ellen	--
Bengali	Paya	--
Bhojpuri	Jaya	--
Brazil. Portuguese	Fernanda 🅖, Luciana	Felipe 🅖
British English	Serena 🅖, Kate 🅖, Stephanie	Malcolm, Daniel, Oliver
Bulgarian	Daria	--
Canadian French	Amelie-ML 🅖, Chantal	Nicolas
Cantonese	Sinji-ML	Aasing-ML
Catalan	Montserrat 🅖	Jordi 🅖
Chilean Spanish	Francisca	--
Chinese Mandarin	Lili-ML, Shasha-ML, Tiantian-ML, Tingting-ML, Lisheng-ML, Shanshan-ML, Lanlan-ML	Binbin-ML, Bobo-ML, Taotao-ML

Language	Female	Male
Colombian Spanish	Soledad 🅖, Ximena	Carlos 🅖
Croatian	Lana	--
Czech	Zuzana-ML, Iveta	--
Danish	Sara	Magnus 🅖
Dongbei	Dongmei-ML	--
Dutch	Claire-ML	Xander
Farsi	--	Dariush
Finnish	Satu	Onni 🅖
French	Audrey-ML 🅖, Aurelie	Thomas
Galician	Carmela 🅖	--
German	Petra-ML 🅖, Anna-ML	Viktor, Markus, Yannick
Greek	Melina	Nikos 🅖
Hebrew	Carmit	--
Hindi	Lekha, Kiyara-ML 🅖	Neel-ML
Hungarian	Mariska	--
Indian English	Sangeeta, Veena	Rishi-ML

ML: multilingual voice, 🅖 : gilded speech DB available

Voice Portfolio (2/2)
140 Voices available with Cerence TTS in November 2019

Language	Female	Male
Indonesian	Damayanti	--
Irish English	Moira	--
Italian	Alice-ML, Federica-ML G, Paola G	Luca G
Japanese	Mizuki, Ayane, Sakura, Koharu	Daisuke, Ichiro
Kannada	Alpana	--
Korean	Yuna-ML, Nuri-ML, Sora	Minsu
Malay	Amira	--
Marathi	Ananya	--
Mexican Spanish	Paulina-ML, Angelica	Juan
Norwegian	Nora	Henrik G
Polish	Ewa, Zosia G	Krzysztof G
Portuguese	Joana, Catarina	Joaquim G
Romanian	Ioana G	--
Russian	Katya-ML, Milena	Yuri
Scottish English	Fiona	--
Shaanxi	--	Haohao-ml

Language	Female	Male
Shanghainese	Lulu-ML	--
Sichuanese	Fangfang-ML, Feifei-ML	--
Slovak	Laura	--
South African English	Tessa	--
Spanish	Mónica-ML, Marisol-ML	Jorge G
Swedish	Alva, Klara	Oskar
Taiwanese Mandarin	Meijia-ML	--
Tamil	Vani	--
Telugu	Geeta	--
Thai	Kanya, Narisa	--
Turkish	Yelda	Cem-ML
Ukrainian	Lesya	--
US English	Ava-ML G, Zoe-ML G, Allison G, Joelle, Noelle, Samantha, Susan G	Evan, Nathan, Tom
Valencian	Empar	--
Vietnamese	Linh	--

ML: multilingual voice, G : gilded speech DB available

cerence

Multi-lingual Voices
Available for all Operating Points except Embedded Compact

Native Language	Voice	ML-Capabilities
Arabic	Maged-ML	English
Canadian French	Amelie-ML	US English
Cantonese	Sinji-ML Aasing-ML	English
Chinese Mandarin	Binbin-ML, Bobo-ML, Lanlan-ML, Lili-ML, Lisheng-ML, Shasha-ML, Tiantian-ML, Tingting-ML, Shanshan-ML	US English
Czech	Zuzana-ML	English, German
Dongbei	Dongmei-ML	US English
Dutch	Claire-ML	English, French, German, Italian, Spanish
French	Audrey-ML	English, German, Italian, Spanish
German	Anna-ML, Petra-ML	English, French, Italian, Spanish
Hindi	Neel-ML, Kiyara-ML	Indian English
Indian English	Rishi-ML	Hindi

Native Language	Voice	ML-Capabilities
Italian	Alice-ML, Federica-ML	English, French, German, Spanish
Korean	Nuri-ML, Yuna-ML	US English
Mexican Spanish	Paulina-ML	US English, Canadian French
Russian	Katya-ML	English
Shaanxi	Haohao-ml	US English
Shanghainese	Lulu-ml	US English
Sichuanese	Fangfang-ML, Feifei-ML	US English
Spanish	Marisol-ML	English, French, German, Italian, Portuguese
Spanish	Monica-ML	English, French, German, Italian
Taiwanese Mandarin	Meijia-ML	English
Turkish	Cem-ML	English
US English	Ava-ML, Zoe-ML	Canadian French, Mexican Spanish

Cerence Handwriting – Language Portfolio

Now supports 55 languages

Afrikaans	Danish	Icelandic	Norwegian	Tajik
Arabic*	Dutch	Indonesian	Polish	Thai
Basque	English*	Italian*	Portuguese	Turkish
Belarusian	Estonian	Japanese*	Romanian	Ukrainian
Bosnian	Farsi	Kazakh	Russian	Urdu
Bulgarian	Finnish	Kirghiz	Serbian	Uzbek Cyrillic
Catalan	French*	Korean*	Slovak	Vietnamese
Chinese CN*	Galician	Latvian	Slovenian	
Chinese HK*	German*	Lithuanian	Spanish*	
Chinese TW*	Greek	Macedonian	Swahili	
Croatian	Hebrew	Malay	Swedish	
Czech	Hungarian	Mongolian	Tagalog	

* Languages currently supporting all writing styles including cursive
All languages supporting single character and multi character input as well as on-top writing

cerence

Cerence Keyboard – Language Portfolio

Now supports 110 languages

Afrikaans	Chinese-HK	Georgian	Javanese	Maori	Sesotho	Thai
Albanian	Chinese-TW	German*	Kannada	Marathi	Sinhala	Turkish
Amharic	Croatian	Greek	Kashmiri	Mongolian	Slovak	Turkmen
Arabic*	Czech	Gujarati	Kazakh	Nepali	Slovenian	Ukrainian
Armenian	Danish	Hausa	Khmer	Norwegian	Spanish*	Urdu
Assamese	Dutch	Hebrew	Kirghiz	Oriya	Spanish-ES*	Uyghur
Azerbaijani	English*	Hindi	Korean*	Pashto	Spanish-LATAM*	Uzbek-Latin
Basque	English-AU*	Hinglish	Kurdish	Polish	Sundanese	Uzbek-Cyrillic
Belarusian	English-UK*	Hungarian	Lao	Portuguese*	Swahili	Vietnamese
Bengali	English-US*	Icelandic	Latvian	Portuguese-BR*	Swedish	Welsh
Bosnian	Estonian	Igbo	Lingala	Portuguese-PT*	Tagalog	Xhosa
Bulgarian	Farsi	Indonesian	Lithuanian	Punjabi	Tajik	Yoruba
Burmese	Finnish	Irish	Macedonian	Romanian	Tamil	Zulu
Burmese-Zawgyi	French*	Italian*	Malagasy	Russian*	Tatar	
Catalan	French-CA*	Japanese-Romaji	Malay	Sanskrit	Telugu	
Chinese-CN	Galician	Japanese-Kana	Malayalam	Serbian	Tibetan	

* Languages supporting QuickText

cerence

Cerence Drive Domains - Regional coverage

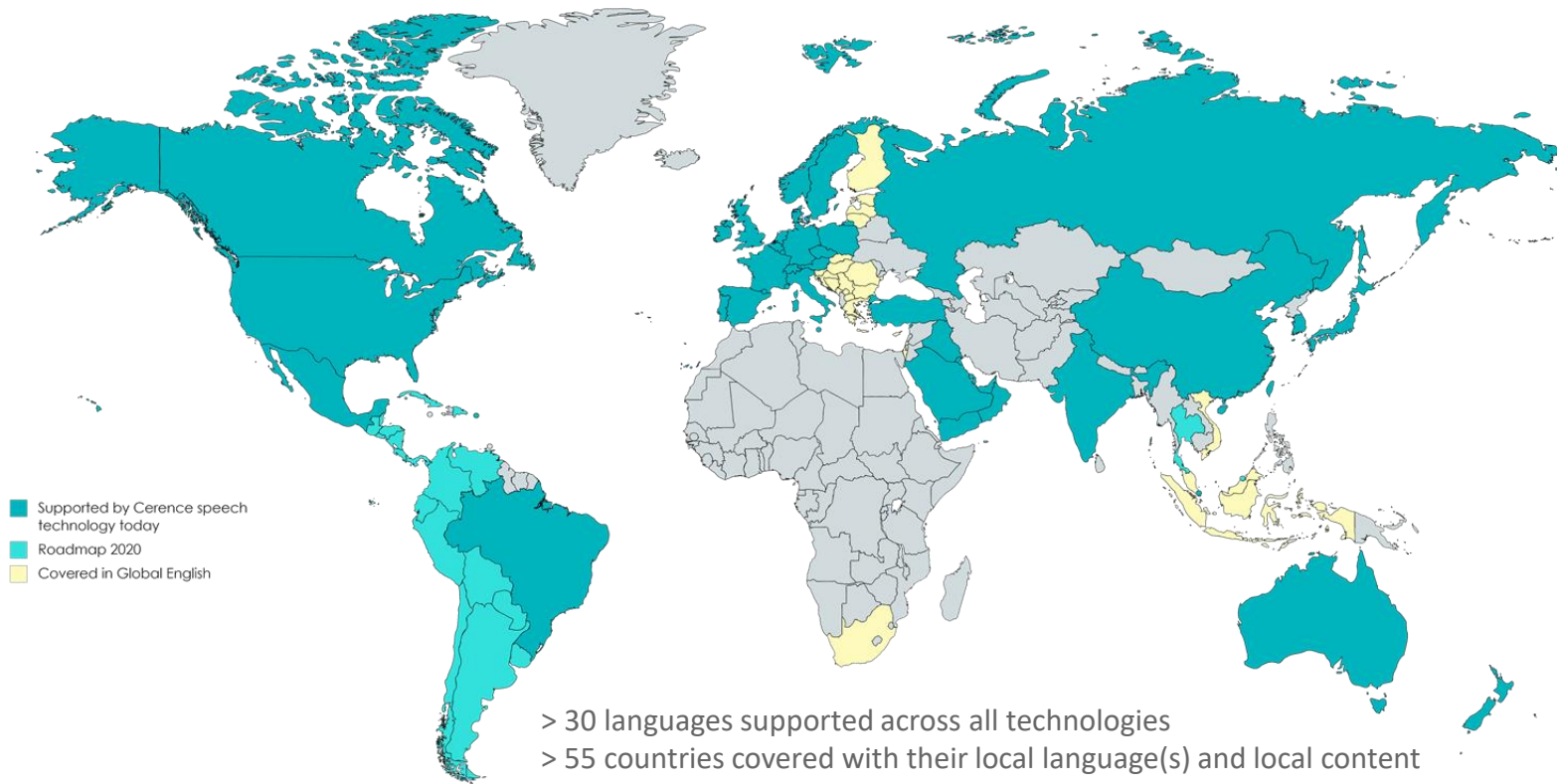Availability and regional coverage of cloud ASR/NLU models and content for Cerence Drive Domains

Language	Native market*
US English	United States, Canada, Puerto Rico*, US Virgin Islands*, Bahamas*, Cayman Isl.*
German	Germany, Austria, Switzerland, Liechtenstein*, Luxembourg*, South Tyrol*, German Belgium*
Simpl. Mandarin	China, Hong Kong, Macau
UK English	United Kingdom, Ireland, Gibraltar*, Isle of Man*, Malta*
EU French	France, Belgium, Switzerland, Luxembourg*, Monaco*
Italian	Italy, Switzerland, San Marino*, Vatican City*
EU Spanish	Spain
Mexican Spanish	Mexico, United States, Puerto Rico*
Canadian French	Canada
Japanese	Japan
Korean	South Korea
Braz. Portuguese	Brazil

Language	available
Cantonese, Trad (HK)	x
Cantonese, Simp. (CHN)	x
Russian	x
Dutch (incl. Flemish)	x
Polish	x
Czech	x
Turkish	x
Swedish	x
Portuguese, EU	x
Mandarin, Trad (Taiwan)	x
Sichuanese	x
Arabic (Gulf Region)	x
Shanghainese	x
Norwegian	x
Danish	x
Malay	2020
Thai	2020
Indonesian	2020
Latam Spanish	2020/21

Regional English	Covered region*
Australian English	Australia, NZ
Indian English	India
English for China	China, Hong-Kong, Taiwan
English for South East Asia	Malaysia, Singapore, Indonesia
"Worldwide English"	> 40 countries

*) supports recognition of addresses and PoIs from this region

cerence

Cerence Drive Domains Global Language Coverage

Legend:
- Supported by Cerence speech technology today
- Roadmap 2020
- Covered in Global English

> 30 languages supported across all technologies
> 55 countries covered with their local language(s) and local content
Additional regions covered via "global English"

Created with mapchart.net ©

cerence

Cerence Studio Languages Portfolio

Availability and regional coverage of the Cerence Studio tool

Language
English, USA
German
Mandarin, Simp (CHN)
English, UK
French, EU (France)
Italian
Spanish, EU
Spanish Mexico
French, Canada

Language
Japanese
Korean
Portuguese, Brazil
Cantonese, Trad (HK)
Cantonese, Simp. (CHN)
Russian
Dutch
Polish
Czech

Language
Turkish
Swedish
Portuguese, EU
Mandarin, Trad (Taiwan)
English, Australia
Norwegian
Danish
English for China
Thai

cerence

Thank you