



## The Voice Reader Studio 15 Command Line Utility

### Table of Content

1. Foreword .....	2
2. Use Cases .....	2
3. Installation .....	2
4. Activation .....	3
5. Using the command line utility .....	3
6. Parameters .....	3
6.1. Necessary Parameters .....	4
6.1.1. Voice .....	4
6.1.2. Input .....	4
6.2. Additional Parameters .....	4
6.2.1. Format .....	4
6.2.2. Output .....	4
6.2.3. Codepage .....	5
6.2.4. Lang .....	5
6.2.5. Coding .....	5
6.2.6. Speed .....	5
6.2.7. Pitch .....	6
6.2.8. Volume .....	6
7. Examples .....	6

### Annex A.

Voice and language description for parameters “voice” and “lang” .....	8
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### Annex B.

Character Set Coding for parameter „codepage“ .....	10
---	----

### Annex C.

Coding for parameter „coding“ .....	11
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# Voice Reader Studio 15 Command Line Utility



voice reader  
STUDIO 15

## 1. Foreword

The Voice Reader Studio 15 Command Line Utility „vrs15cmd.exe“ converts input text or a text file into an audio file via a command line prompt. It can be easily controlled also via batch-file and thus offers the possibility of an automated audio conversion of multiple text files.

The Voice Reader Studio 15 Command Line Utility is accessing the Voice Reader Studio 15 Text-to-Speech-Engine.

For installation, activation and usage of Voice Reader Studio 15 Command Line Utility please follow these instructions.

## 2. Use cases

Many tasks can be easily done under Windows via the command line.

Voice Reader Studio 15 Command Line Utility can be perfectly integrated into script-programs or into script-controlled processes.

For example you can use it for a specific and automated conversion into audio of

- certain lines from large files or
- specific files from a directory

without the need of any user interaction.

## 3. Installation

At first, please install the main program **Voice Reader Studio 15** in the desired language via download or with the installation-DVD (one DVD per language).

The Voice Reader Studio 15 Command Line Utility will be delivered on a separate storage medium (CD).

The CD contains the folder "**Voice Reader Studio 15 command line util**" in which you can find all necessary files : the Voice Reader Studio Command Line Utility "**vrs15cmd.exe**" as well as the examples of usage "**test.\***".

After the full installation of the main program „Voice Reader Studio 15“, please copy the whole content of the folder “Voice Reader Studio 15 command line util”,

- a) the Voice Reader Studio 15 Command Line Utility „vrs15cmd.exe“ and
- b) all the examples of usage „test.\*“,

into the installation folder of Voice Reader Studio 15.

The default installation folder of Voice Reader Studio 15 is

under 32-bit operating systems: **C:\Program Files\Linguattec\VoiceReaderStudio15\**

under 64-bit operating systems: **C:\Program Files (x86)\Linguattec\VoiceReaderStudio15\**

You need full admin rights to get the permission for the copying of files into this directory!

Detailed information for the installation of Voice Reader Studio 15 can be found in the user manual

<http://www.linguattec.de/services/manuals#vrs> and on our FAQ page:

<http://www.linguattec.de/services/support/vrs15>

## Voice Reader Studio 15 Command Line Utility



voice reader  
STUDIO 15

### 4. Activation

The Voice Reader Studio 15 Command Line Utility is working with all languages which have been installed and activated in the main program „Voice Reader Studio 15“.

The activation for each language of Voice Reader Studio 15 can be performed only in the main program „Voice Reader Studio 15“. Each language has to be activated separately and requires its own license key. The license key can be found on the DVD or DVD cover of Voice Reader Studio 15. If you purchased a download, the online vendor will send you the license key after the purchase.

Voice Reader Studio 15 and Voice Reader Studio 15 Command Line Utility can be tested within 30 days following installation (it counts the day of installation of the particular language) without activation.

Detailed information for the activation of Voice Reader Studio 15 can be found in the user manual <http://www.linguatec.de/services/manuals#vrs> and on our FAQ page: <http://www.linguatec.de/services/support/vrs15>

### 5. Using the Command Line Utility

The Voice Reader Studio 15 Command Line Utility „vrs15cmd.exe“ has to be located in the installation folder of Voice Reader Studio 15. You need to start it from there.

Open the command console (Start – Run – cmd.exe) and navigate to the program folder of Voice Reader Studio 15, in which you can find the “vrs15cmd.exe”.

For example, on a 64-bit operating system with a default installation of Voice Reader Studio 15:

```
cd "c:\Program Files (x86)\Linguatec\VoiceReaderStudio15"
```

Call the Voice Reader Studio 15 Command Line Utility as follows: **vrs15cmd.exe**

When you simply start the Voice Reader Studio 15 Command Line Utility (without entering any parameters) all supported parameters and some examples will be shown.

You can find a batch file example „test\_vrs15cmd.bat“ in the same directory in which the vrs15cmd.exe is located. It converts the text from different „test\_XX.txt“ files into MP3s.

The batch file „test\_vrs15cmd.bat“ will create the following directory:

```
„c:\VoiceReaderStudio15CommandLineResult“.
```

This is the directory in which the audio files will then be saved.

### 6. Parameters

The Voice Reader Studio 15 Text-to-Speech can be controlled via diverse parameters.

Please use the following parameters:

We differentiate between „necessary“ and „additional parameters“.

„Necessary parameters“ (**voice** and **input**) have to be specified.

„Additional parameters“ (e.g. **lang**, **codepage**, **format**...) don't have to be specified.

In the event that an additional parameter is not specified, the default value for this parameter will be applied.

# Voice Reader Studio 15

## Command Line Utility



voice reader  
STUDIO 15

The different parameters have to be separated with blanks.

Please enclose the value of the parameter with quotation marks, if the file name or file directory which is named in the parameter contains blanks.

### 6.1 Necessary parameters:

#### 6.1.1 **voice**=<name of the voice>

This parameter defines the voice and thus language and gender (male or female voice). Please use the names which you can find in the table of annex A.

#### 6.1.2 **input**=<name of input text file>

If the text file is in the current directory, (this means in the same directory in which the VRS15cmd.exe is located), it is sufficient to name the file name.

Example:       input=test1.txt

If the text file is not in the current directory, you need to describe the file name with the full path. If the parameter **output** is not specified, the result audio file name will be generated automatically from the **input** parameter.

If the file location or file name contains spaces, the specification must be enclosed with quotation marks.

Example:       input="d:\my work\test2.txt"

### 6.2. Additional Parameters:

#### 6.2.1 **format**=<audio file format >

Defines the audio file format. Possible values are WAV or MP3. The default value is WAV.

Example:       format=mp3

#### 6.2.2 **output**=<name of output audio file>

Defines the exact file name and location (file path) for the generated audio file.

If the file location or name contains spaces, the specification must be enclosed with quotation marks.

Example:       output="c:\my result\test2\_de.wav"

# Voice Reader Studio 15

## Command Line Utility



voice reader  
STUDIO 15

### 6.2.3 **codepage**=<Character Set Coding>

Please use the coding as described in annex B (column "coding")

All possible codepage values can be found in the Microsoft-table „system.text.encoding“ under [http://msdn.microsoft.com/library/system.text.encoding\(v=vs.80\).aspx](http://msdn.microsoft.com/library/system.text.encoding(v=vs.80).aspx)

If no codepage is defined as parameter, a default value will be generated automatically from the BOM (Byte Order Mark) of the "input" text file.

If the text file contains no BOM, the parameter "**codepage**" has to be defined!

Example:       codepage=1252

### 6.2.4 **lang**=<language description>

Defines the language of the input text file.

Please use the language description as shown in annex A (column "lang").

Please ensure that the specific language is supported by the chosen voice. If no language is defined, a default value will be generated automatically from the parameter "voice".

Example:       lang=ged

### 6.2.5 **coding**=<coding value>

The coding value depends on the chosen parameter for "**format**", please see table in annex C (column "format").

The following values are supported:

For the **WAV** file format:

0= 8KHz,8bit;	1= 8KHz,16bit;	2= 11KHz,8bit;	3= 11KHz,16bit;
4= 22KHz,8bit;	5= 22KHz,16bit;	6= 44KHz,8bit;	7= 44KHz,16bit;
8= 48KHz,8bit;	9= 48KHz,16bit		

The default value is 5 (22KHz, 16bit), respectively it is the value which has been defined in the last session of Voice Reader Studio 15.

For the **MP3** file format:

0= 16kBit/s;	1= 24kBit/s;	2= 32kBit/s;	3= 40kBit/s;
4= 48kBit/s;	5= 56kBit/s;	6= 64kBit/s;	7= 80kBit/s;
8= 96kBit/s;	9= 112kBit/s;	10= 128kBit/s;	11= 160kBit/s;
12= 192kBit/s			

The default value is 6 (64kBit/s), respectively it is the value which has been defined in the last session of Voice Reader Studio 15.

Example:       coding=6

### 6.2.6 **speed**=<speed value>

This parameter defines the speed for the reading text. Values between 50 and 200 may be entered. The default value for speed is 1000.

Example:       speed=90

## Voice Reader Studio 15 Command Line Utility



voice reader  
STUDIO 15

### 6.2.7 **pitch**=< pitch value>

This parameter defines the pitch for the reading of the text. Values between 50 and 200 may be entered. The default value for pitch is 100.

Example:       pitch=110

### 6.2.8 **volume**=< volume value>

This value defines the volume. Values between 1 and 100 may be entered. The default value for volume is 100.

Example:       volume=75

## 7. Examples

a)

```
vrs15cmd.exe voice=Ava format=mp3 input=test_en.txt
```

This command line command generates:

- from the text of the text file **test\_en.txt** (which is located in the current directory)
- the audio file **test\_en.mp3**
- with the voice **Ava** (in American English).

INFORMATION:

The command line command from above can only be executed,

- if the voice "**Ava**" is installed on this PC in Voice Reader Studio 15.
- if the program has write permissions in this directory. In the default case, this command will not work because programs usually don't have write permissions in the directory "**C:\ProgramFiles (x86)\**".

b)

```
C:\my files>"C:\Program Files (x86)\Linguattec\VoiceReaderStudio15\vrs15cmd.exe" voice=Tian-Tian  
format=mp3 input=test_utf_8.txt
```

This command line command would generate the MP3 audio file "**C:\my files\test\_utf\_8.mp3**" from the text file "**C:\my files\test\_utf\_8.tx**" with the voice "**Tian-Tian**" (in Chinese, Mandarin). The text file has to contain BOMs or has to be coded in UTF-8 or UTF-16.

INFORMATION:

The command line command from above can only be executed,

- if the program has write permissions in the directory „**C:\my files\**“ .
- if the voice „**Tian-Tian**“ is installed on this PC in Voice Reader Studio 15.

Important: If the file location or file name contains spaces, the specification must be enclosed with quotation marks.

## Voice Reader Studio 15 Command Line Utility



voice reader  
STUDIO 15

c)

```
C:\my files>"C:\Program Files (x86)\Linguatec\VoiceReaderStudio15\vrs15cmd.exe" voice=Anna-ML  
format=wav coding=7 input="d:\my work\test_de.txt" codepage=1252 speed=120 volume=90  
output="c:\my result\test2_de.wav"
```

This command line command would generate the WAV audio file "**c:\my result\test2\_de.wav**" from the text file "**d:\my work\test\_de.txt**" with the voice "**Anna-ML**" (in German language). The text was created in **Codepage 1252**. The WAV audio file quality has been defined with **44KHz** and **16bit**. The text will be read out **20% faster** and with **90% of the default volume**.

### INFORMATION:

The command line command from above can only be executed,

- if the program has write permissions in the directory „**C:\my files\**“ .
- if the voice „**Anna-ML**“ is installed on this PC in Voice Reader Studio 15.

Important: If the file location or file name contains spaces, the specification must be enclosed with quotation marks.



**Annex A.**

**Voice- and language description for parameters „voice“ and „lang“:**

Language	lang	voice
Arabic	arw	Tarik
Basque	bae	Miren
Danish	dad	Sara
Danish	dad	Magnus
German	ged	Anna-ML
German	ged	Petra
German	ged	Yannick
German	ged	Markus
English (American)	enu	Ava
English (American)	enu	Samantha
English (American)	enu	Tom
English (American)	enu	Susan
English (American)	enu	Allison
English (Australian)	ena	Karen
English (Australian)	ena	Lee
English (British)	eng	Serena
English (British)	eng	Daniel
English (British)	eng	Kate
English (British)	eng	Oliver
English (Indian)	eni	Veena
English (Irish)	ene	Moira
English (Scottish)	ens	Fiona
English (South African)	enz	Tessa
Finnish	fif	Satu
French	frf	Audrey-ML
French	frf	Aurelie
French	frf	Thomas
French (Canadien)	frc	Amelie
French (Canadien)	frc	Nicolas
French (Canadien)	frc	Chantal
Galician	gle	Carmela
Greek	grg	Melina
Greek	grg	Nikos
Hebrew	hei	Carmit
Hindi	hii	Lehka
Indonesian	idi	Damayanti
Italian	iti	Alice-ML
Italian	iti	Federica
Italian	iti	Paola
Italian	iti	Luca



# Voice Reader Studio 15

## Command Line Utility



voice reader  
STUDIO 15

Japanese	jjp	Kyoko
Japanese	jjp	Otoya
Cantonese (Hong Kong)	cah	Sin-Ji
Catalan	cae	Montserrat
Catalan	cae	Jordi
Korean	kok	Sora
Mandarin (China)	mnc	Tian-Tian
Mandarin (Taiwan)	mnt	Mei-Jia
Dutch (Netherlands)	dun	Claire
Dutch (Netherlands)	dun	Xander
Dutch (Belgium)	dub	Ellen
Norwegian	non	Nora
Norwegian	non	Henrik
Polish	plp	Ewa
Polish	plp	Zosia
Portuguese	ptp	Catarina
Portuguese	ptp	Joana
Portuguese (Brazilian)	ptb	Luciana
Portuguese (Brazilian)	ptb	Felipe
Romanian	ror	Ioana
Russian	rur	Milena
Russian	rur	Yuri
Russian	rur	Katya
Swedish	sws	Alva
Swedish	sws	Oskar
Swedish	sws	Klara
Slovak	sks	Laura
Spanish	spe	Monica
Spanish	spe	Jorge
Spanish (Colombian)	spc	Soledad
Spanish (Colombian)	spc	Carlos
Spanish (Mexican)	spm	Paulina
Spanish (Mexican)	spm	Angelica
Spanish (Mexican)	spm	Juan
Spanish (Argentine)	spc	Diego
Thai	tht	Kanya
Czech	czc	Iveta
Czech	czc	Zuzana
Turkish	trt	Yelda
Turkish	trt	Cem
Hungarian	huh	Mariska
Valencian	vae	Empar

# Voice Reader Studio 15 Command Line Utility



voice reader  
STUDIO 15

## Annex B.

### Character Set Coding for parameter „codepage“:

Coding:	Additional Information:
850	DOS Latin1 Western Europe
852	DOS Latin2 Europe
855	DOS Cyrillic Russian
1200	Unicode UTF-16 LE (BOM: FF FE)
1201	Unicode UTF-16 BE (BOM: FE FF)
1250	Windows ANSI, Central Europe
1251	Windows Cyrillic Russian
1252	Windows Latin 1, Western Europe
1253	Windows Greek
1254	Windows Turkish
1255	Windows Hebrew
1256	Windows Arabic
1257	Windows Baltic
12000	Unicode UTF-32 LE
12001	Unicode UTF-32 BE
65000	Unicode UTF-7
65001	Unicode UTF-8 (BOM: EF BB BF)

This table lists only the most common codings.

For further codings please refer to the following webpage:

[http://msdn.microsoft.com/en-us/library/windows/desktop/dd317756\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/dd317756(v=vs.85).aspx)



## Annex C.

### Coding for parameter „coding“:

Coding of Parameter „coding“ for „format=wav“

Coding:	Additional Information:
0	8 KHz, 8 Bit
1	8 KHz, 16 Bit
2	11 KHz, 8 Bit
3	11 KHz, 16 Bit
4	22 KHz, 8 Bit
5	22 KHz, 16 Bit <b>(Standard)</b>
6	44 KHz, 8 Bit
7	44 KHz, 16 Bit
8	48 KHz, 8 Bit
9	48 KHz, 16 Bit

Coding of Parameter „coding“ for „format=mp3“

Coding:	Additional Information:
0	16 kB/s
1	24 kB/s
2	32 kB/s
3	40 kB/s
4	48 kB/s
5	56 kB/s
6	64 kB/s <b>(Standard)</b>
7	80 kB/s
8	96 kB/s
9	112 kB/s
10	128 kB/s
11	160 kB/s