YOUR VOICE HAS NO LIMIT

VSDK 6 Complete Configuration Document

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Field	Optional	Default Value	Туре	Possible Values	Description/Notes
version	×		String	2.0	Version of the whole document
csdk	×		Object		
csdk/paths	1		Object		
csdk/paths/cache	1	cache	Path		Absolute or relative to vsdk.json
csdk/paths/data_root			Path		Absolute or relative to vsdk.json
csdk/paths/acmod	1	acmod	Path		Absolute or relative to data_root
csdk/paths/asr	1	asr	Path		Absolute or relative to data_root
csdk/paths/clc	•	clc	Path		Absolute or relative to data_root
csdk/paths/clc_ruleset	1	clc	Path		Absolute or relative to data_root
csdk/paths/dictionary		dictionaries	Path		Absolute or relative to data_root
csdk/paths/search	1	ctx	Path		Absolute or relative to data_root
csdk/paths/sem3		ctx	Path		Absolute or relative to data_root
csdk/paths/users	1	users	Path		Absolute or relative to data_root
csdk/paths/audio_based_classifier_model	1	abc	Path		Absolute or relative to data_root
csdk/paths/confusion_dictionary	1	dictionaries	Path		Absolute or relative to data_root
csdk/paths/language_model	1	lm	Path		Absolute or relative to data_root
csdk/tts	×		Object		
csdk/tts/channels	×		Object		
csdk/tts/channels/ <channel_name_1></channel_name_1>	×		String		Name of the channel, used in code
csdk/tts/channels/ <channel_name_l>/voices</channel_name_l>	×		Array		
csdk/tts/channels/ <channel_name_l>/voices/0</channel_name_l>	×		String	<speaker>,<lang>,<quality></quality></lang></speaker>	
csdk/asr	×		Object		
csdk/asr/recognizers	×		Object		
csdk/asr/recognizers/ <recognizer_name_l></recognizer_name_l>	×		String		Name of the recognizer, used in code
csdk/asr/recognizers/ <recognizer_name_l>/acmods</recognizer_name_l>	×		Array		Recognizers accept multiple acoustic models
csdk/asr/recognizers/ <recognizer_name_l>/acmods/θ</recognizer_name_l>	×		String		
csdk/asr/models	x		Object		
csdk/asr/models/ <model_name_1></model_name_1>	×		String		Name of the model, used in code
csdk/asr/models/ <model_name_1>/type</model_name_1>	×		String	static, dynamic, free- speech	
csdk/asr/models/ <model_name_1>/file</model_name_1>	×		File		Compiled model file name, extension is .fcf
csdk/asr/models/ <model_name_1>/sem3</model_name_1>	•		String		Compiled semantic model file name, extension is .s3c
csdk/asr/models/ <model_name_1>/settings</model_name_1>	1		Object		
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_STREAM_RESULT_MODE</model_name_1>	*	0	Int	0, 1	The mode in which intermediate results are displayed during recognition. 1 means partial result are activated
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_ACCURACY</model_name_1>	•	10000	Int	[100 ; 50000]	Trade-off between CPU- load, memory requirements and the obtained accuracy of the search
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_MAXNBEST</model_name_1>	•	3	Int	[1;1000]	Maximum number of hypotheses returned in a result

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csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_TSILENCE</model_name_1>	•	100	Int	[100 ; 10000]	Minimum amount of trailing silence, in milliseconds. Use a higher value for non- WUW models
csdk/asr/models/ <model_name_l>/settings/LH_SEARCH_PARAM_IG_LOWCONF</model_name_l>	•	5000	Int	[0;10000]	Maximum amount of confidence level that indicates that a spoken utterance is out of grammar
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_IG_HIGHCONF</model_name_1>		5000	Int	[0;10000]	Minimum amount of confidence level that indicates that a spoken utterance is in grammar
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_INITBEAMWIDTH</model_name_1>	•	2500	Int	[0;10000]	Init beam width. This parameter affects low- level behavior of the algorithm
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_TANYSPEECH</model_name_1>	×	LH_FALSE	String	LH_TRUE, LH_FALSE	Allows the recognizer to stop the recognition process during the trailing AnySpeech state
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_NBESTRESULT_SETHIDDENKEYS</model_name_1>	•	LH_FALSE	String	LH_TRUE, LH_FALSE	When enabled additional information is included on the ASR result that can be used for the FM use case
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_ONDEMANDLOADING</model_name_1>	•	LH_FALSE	Int	LH_TRUE, LH_FALSE	Context on-demand loading
csdk/asr/models/ <model_name_1>/settings/LH_SEARCH_PARAM_SPEECH_TIMEOUT</model_name_1>		0	Int	0, [100 ; 60000]	Speech duration timeout in milliseconds
csdk/asr/models/ <model_name_1>/acmod</model_name_1>	X *		String		*Only for dynamic models. Must match with the one configured on the recognizer that will apply this model
csdk/asr/models/ <model_name_1>/slots</model_name_1>	X *		Object		*Only for dynamic models.
csdk/asr/models/ <model_name_1>/slots/<slot_name_1></slot_name_1></model_name_1>	×		Object		Name of the slot, used in the code
csdk/asr/models/ <model_name_1>/slots/<slot_name_1>/slot</slot_name_1></model_name_1>	×		String	<grammar-name>#<slot-name></slot-name></grammar-name>	Grammar name is marked after !grammar and slot name is after !slot in your BNF grammar
csdk/asr/models/ <model_name_1>/slots/<slot_name_1>/category</slot_name_1></model_name_1>	•	normal	String	normal, name, artist	
csdk/asr/models/ <model_name_1>/slots/<slot_name_1>/allow_custom_phonetic</slot_name_1></model_name_1>		false	Bool		Setting to true will allow for custom phonetic to be provided for this slot
csdk/asr/models/ <model_name_1>/lexicon</model_name_1>	X *		String		*Only for dynamic models.
csdk/asr/models/ <model_name_1>/lexicon/clc</model_name_1>	×		File		Used during runtime compilation. Use a language that match the rest of the grammar and the recognizer this model will be applied on
csdk/asr/models/ <model_name_l>/lexicon/settings</model_name_l>	•		Object		
csdk/asr/models/ <model_name_1>/extra_models</model_name_1>	X *		Object		*Only for free-speech models. All models for a given language must be listed or the program won't function properly
csdk/asr/models/ <model_name_1>/extra_models/<name></name></model_name_1>	x		File		
tnl	×		Object		
tnl/paths	•		Object		
tnl/paths/cache	•	cache	Path		Absolute or relative to vsdk.json
tnl/paths/models	•		Path		Absolute or relative to vsdk.json
tnl/asr	x		Object		
tnl/asr/recognizers	×		String		
tnl/asr/recognizers/ <recognizer_name_l></recognizer_name_l>	×		String		Name of the recognizer, used in the code

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tnl/asr/recognizers/ <recognizer_name_1>/audio_buffer_size_seconds</recognizer_name_1>	*	10	Int	> 0	In seconds , so multiply by 16000 to get the actual memory space allocated
tnl/asr/models	×		Object		
tnl/asr/models/ <model_name_1></model_name_1>	×		Object		Name of the model, used in the code
tnl/asr/models/ <model_name_l>/type</model_name_l>	x		String	static, dynamic	
tnl/asr/models/ <model_name_1>/file</model_name_1>	×		File		Compiled model file name, extension is .snsr
tnl/asr/models/ <model_name_1>/slots</model_name_1>	X *		Object		*Only for dynamic models
tnl/asr/models/ <model_name_1>/slots/<slot_name_1></slot_name_1></model_name_1>	×		Object		Name of the slot, used in the code
tnl/asr/concurrent_model	* *		File		*Only needed if you want to call Recognizer::setModels(). File name of a concurrent template model, extension is .snsr
vasr	×		Object		
vasr/paths	1		Object		
vasr/paths/data_root	1		Path		Absolute or relative to vsdk.json
vasr/paths/models	1	models	Path		Absolute or relative to data_root
vasr/paths/g2p	1	g2p	Path		Absolute or relative to data_root
vasr/asr	x		Object		
vasr/asr/recognizers	×		Object		
vasr/asr/recognizers/ <recognizer_name_l></recognizer_name_l>	×		String		Name of the recognizer, used in the code
vasr/asr/models	×		Object		
vasr/asr/models/ <model_name_1></model_name_1>	×		String		Name of the model, used in the code
vasr/asr/models/ <model_name_l>/type</model_name_l>	×		String	static, dynamic	
vasr/asr/models/ <model_name_l>/dir</model_name_l>	×		Path		Absolute or relative to paths/models
vasr/asr/models/ <model_name_l>/gramman</model_name_l>	X *		File		*Only for dynamic models. Absolute or relative to dir, extension is .bnf
vasr/asr/models/ <model_name_1>/lang</model_name_1>	X *		String	eng-US, fra-FR	*Only for dynamic models. Used during g2p model search, like so: g2p/model.fst Or g2p/ <lang>/model.fst</lang>
vasr/asr/models/ <model_name_1>/g2p</model_name_1>	✓*		Path		*Only for dynamic models. Absolute or relative to paths/g2p
vasr/asr/models/ <model_name_l>/slots</model_name_l>	X *		Object		*Only for dynamic models.
vasr/asr/models/ <model_name_1>/slots/<slot_name_1></slot_name_1></model_name_1>	×		Object		Name of the slot, used in the code
baratinoo	×		Object		
baratinoo/paths	1		Object		
baratinoo/paths/data_root	•		Path		Absolute or relative to vsdk.json
baratinoo/tts	×		Object		
baratinoo/tts/channels	×		Object		
<pre>baratinoo/tts/channels/<channel_name_l></channel_name_l></pre>	X		Object		
baratinoo/tts/channels/ <channel_name_l>/voices</channel_name_l>	×		Array		
baratinoo/tts/channels/ <channel_name_l>/voices/0</channel_name_l>	× ×		String	<speaker></speaker>	
vtapi vtapi/paths	×		Object		
vtapi/paths/data_root			Object Path		Absolute or relative to vsdk.json
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Field	Optional	Default Value	Туре	Possible Values	Description/Notes
vtapi/tts/channels	×		Object		
vtapi/tts/channels/ <channel_name_1></channel_name_1>	×		Object		
<pre>vtapi/tts/channels/<channel_name_l>/voices</channel_name_l></pre>	×		Array		
vtapi/tts/channels/ <channel_name_l>/voices/θ</channel_name_l>	×		String	<speaker>,<quality></quality></speaker>	
tssv	×		Object		
tssv/biometrics	×		Object		
tssv/biometrics/generated_models_path	×		Path		Absolute or relative to the program's working directory
tssv/biometrics/background_model_TD	×		File		Absolute or relative to the program's working directory
tssv/biometrics/background_model_TI	×		File		Absolute or relative to the program's working directory
idvoice	×		Object		
idvoice/biometrics	×		Object		
idvoice/biometrics/generated_models_path	×		Path		Absolute or relative to the program's working directory
idvoice/biometrics/background_model_TD	×		File		Absolute or relative to the program's working directory
idvoice/biometrics/background_model_TI	×		File		Absolute or relative to the program's working directory
vafe	×		Object		
vafe/afe	×		Object		
vafe/afe/analyzers	×		Object		
vafe/afe/analyzers/ <name_1></name_1>	×		Object		
vafe/afe/analyzers/ <name_l>/type</name_l>	×		String	snr, rt60, mos	
vafe/afe/analyzers/ <name_l>/bitspersample</name_l>	X *		Int	Power of 2, [16 ; 1024]	*Only for rt60 analyzers.
vafe/afe/analyzers/ <name_l>/model</name_l>	X *		Path		*Only for mos analyzers. Absolute path to the mos configuration file, extension is .json
vafe/afe/filters	×		Object		
vafe/afe/filters/ <name_l></name_l>	×		Object		
vafe/afe/filters/ <name_l>/type</name_l>	×		String	bandpass, lowpass, highpass	
vafe/afe/filters/ <name_l>/lowfrequency</name_l>	X *		Int	[1;16000]	*Only for bandpass filters.
vafe/afe/filters/ <name_l>/highfrequency</name_l>	X *		Int	[1;16000]	*Only for bandpass filters.
vafe/afe/filters/ <name_l>/frequency</name_l>	X *		Int	[1;16000]	*Only for lowpass and highpass filters.