

# HTTP/TTS Protocol

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## Description

This protocol is simple :

- From the VoiceXML browser, you configure to use HTTP, a (POST recommended) request containing mainly the text content and additional parameters (like language, voice...).
- The server treats your request.
- The VoiceXML browser receives an audio file (cpataible with Asterisk) : it keep it in cache and play it.

## VoiceXML Browser configuration

The main TTS configuration is set in /etc/vxmld.conf, in the section “TTS server configuration”, parameters prefix “client.prompt.resource.0.”.

- **method** : When you set the **method** with POST or GET the HTTP/TTS protocol is used to process <prompt> text contents. If you set the value ASTERISK, the VoiceXML browser will send the content to the Asterisk module (as a text/UTF8 or XML/UTF8 content).
- **uri** : You need to set the **uri** for the TTS (or TextToVideo) service (our scripts install the services in <http://ip/tts/provider/tts.php>).
- **format** : Configure the audio file **format** used, all the scripts not support all the format. Have a look on the install documentation to check and set the correct format.
- **maxage** : The parameter **maxage** force to refresh the cache after sometime. The value 0, disable the caching, the HTTP request will be use for each prompt. The value -1 define infinite age. If the file exist in the cache, it will be always used from the cache directly.
- **cutPrompt** : The option **cutPrompt**, allows to slice the prompt in order to mutualize the maximal contents (cuts in '!', ',', '!' ...).
- **ssml** : The option **ssml** for to send the text as a SSML/XML well formatted content (with <?xml> and <ssml> roots tags).

Configuration example :

```
#####
# TTS server configuration #
#####

#client.prompt.resource.0.uri                VXIString
http://localhost/tts/flite/tts.php
#client.prompt.resource.0.uriVideo           VXIString
http://localhost/tts/video/ttv.php
client.prompt.resource.0.method              VXIString    POST
client.prompt.resource.0.cacheDir            VXIString    /tmp/cacheContent
```

client.prompt.resource.0.format	VXIStrng	wav
client.prompt.resource.0.formatVideo	VXIStrng	3gp
client.prompt.resource.0.maxage	VXIInteger	-1
client.prompt.resource.0.checkBreak	VXIInteger	0
client.prompt.resource.0.cutPrompt	VXIInteger	0
#client.prompt.resource.0.api	VXIStrng	voxygen
#client.prompt.resource.0.user	VXIStrng	demo
#client.prompt.resource.0.password	VXIStrng	demo
client.prompt.resource.0.ssm1	VXIInteger	0

## HTTP Parameters

- **text** : the text to synthesize : from the <prompt> content (UTF8 format).
- **language** : the language used (en-GB, fr-FR...) : from the xml:lang attribut.
- **format** : the audio format to return (wav, gsm, mp4... formats supported by Asterisk) : from the configuration.
- **voice** : the voice (Carla, Marcos... depends on the TTS provider) : from the xml:lang attribut.
- **size\*** : the size of the image : from the property promptsize.
- **backgroud\*** : the image reference or color used for the background : from the property promptbackground.
- **color\*** : the color for the text : from the property promptcolor.
- **font\*** : the size of the font : from the property promptfont.
- **offset\*** : the offset X shift to the text : from the property promptoffset
- **position\*** : the position Y shift to the text : from the property promptposition
- **hmac** : MD5 key generated for Voxygen Cloud integration.

\* : Only for TextToVideo function. When you set xml:language="video".

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Last update: 2017/07/28 22:29

