

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.

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 content (cuts in ' ', ' ', ' ' ...).
- ssml : The option **ssml** for to send the content as SSML/XML well formatted content (with <?xml> and <ssml> roots tags).

```
#####
# 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              VXIString    wav
client.prompt.resource.0.formatVideo         VXIString    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	VXIString	voxygen
#client.prompt.resource.0.user	VXIString	demo
#client.prompt.resource.0.password	VXIString	demo
client.prompt.resource.0.ssml	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.

From:
<https://wiki.voximal.com/> - **Voximal documentation**

Permanent link:
https://wiki.voximal.com/doku.php?id=legacy:text-to-speech_guide:tts_http_protocol:start&rev=1425415227

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