

# Text-To-Speech Guide

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## Purpose

The VXI\* VoiceXML browser integrates an HTTP client interface to connect to an HTTP text-to-speech (TTS) server. This allows for dynamically generated audio content with a text-to-speech engine. Most VoiceXML browsers have an MRCP (Media Resource Control Protocol) interface to access text-to-speech features. The advantage however, of using the HTTP connector is that the “speech” generated is cached by the VoiceXML Browser, and re-used the next time. The text is posted via an HTTP request then the server responds with a standard wav file. Users can use the TTS to generate menus prompts, for example, without need to purchase a lot of TTS licenses. The integrated TTS packages use PHP, so you need to have an Apache/PHP already installed on your server (MySQL is optional, it allows to produce “CDR” like reporting information to evaluate the TTS using).

## Scope

- [Flite TTS](#)
- Mbrola TTS
- [Loquendo TTS](#)
- [Acapela TTS](#)
- [Cepstral TTS](#)
- [Verbio TTS](#)
- [Voxygen TTS](#)
- Nuance TTS
- Neospeech TTS
- Lumenvox TTS
- Ivona TTS

## Usage

You can you two type of connections

- HTTP access
- MRCP access

## HTTP

To use TTS by HTTP, you need to configure vxi. In /etc/openvxi/client.cfg set **POST** value in **client.prompt.resource.0.method** key

<code>client.prompt.resource.0.method</code>	<code>VXIString</code>	<code>POST</code>
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## HTTP

To use TTS by MCRP, you need to configure vxi, and configure asterisk to use TTS with MRCP.

To configure VXI, set in `/etc/openvxi/client.cfg` the **ASTERISK** in `client.prompt.resource.0.method` key

```
client.prompt.resource.0.method          VXIString  ASTERISK
```

To configure asterisk, update the file `/etc/asterisk/mrcp.conf`

```
[speech-loquendo-mrcp1]
version = 1
server-ip = 192.168.100.164
server-port = 554
resource-location = media
speechsynth = speechsynthesizer
speechrecog = speechrecognizer
rtp-ip = 192.168.100.134
;rtp-ip = 192.168.1.2
;rtp-ext-ip = auto
rtp-port-min = 5100
rtp-port-max = 5999
playout-delay = 50
;min-playout-delay = 20
max-playout-delay = 200
ptime = 20
codecs = PCMU PCMA L16/96/8000
rtcp = 1
rtcp-bye = 2
rtcp-tx-interval = 5000
rtcp-rx-resolution = 1000
```

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