

# VoiceXML interpreter

## Purpose

Once you have completed installing Voximal, you must configure it before attempting to place calls. The management and configuration procedures completely depend on the integration, as the reference VoiceXML browser components never directly access a configuration subsystem. Instead, all configuration parameters are passed to the initialization or resource creation functions for each VoiceXML browser component. The VoiceXML browser is configured through a text configuration file. Each line of this file defines a value for a property (parameter) applying to a given VoiceXML Engine; the possible property names are defined in the interface header files for the various components. The configuration file format is described in detail in a comment block at the top of the sample configuration file, `/etc/voximald.conf`.

### NOTE:

Before any configuration update, make a backup copy of your `voximald.cfg` file.

Once you have made a backup copy, review the properties in the configuration file and modify their settings as appropriate. For an explanation of each property, refer to support. In most cases you can modify the following properties to get started (listed in priority order):

Configure the internet access to use http  
Configure the cache management  
Activate/ deactivate traces  
Configure the supported MIME types

## Cache Management

In the Client configuration section, set `client.inet.cacheDir` to the directory where you want to store cached Internet files from URL fetches. Set the `client.inet.cacheTotalSizeMB` property to the desired size limit in megabytes for the Internet fetch cache. Processing VXi\* produces standard traces under the `/tmp/log.txt` file. The trace file names are referenced in the `/etc/vxmld.conf` (old versions:`/etc/openvxi/client.cfg`) file. Their format can be found in the Log Files section of this document.

### NOTE:

To disable the cache entry, set the `maxage` and `maxstale` properties to 0. This properties can be change in the `default.xml` file to globally disable the cache.

## Webserver Configuration (optional)

The VXi\* VoiceXML browser supports running against static content stored as local files as well as static or dynamic content served by a web server. The VoiceXML browser is generally used with a web server. Content can be VoiceXML documents, audio / images / video files (if supported by your version or license), and grammar files. When a web server delivers the content, it also provides the MIME

content type for the content and information about the desired caching behavior for the content. For the MIME content type for VoiceXML documents, a value of application/vxml+xml is recommended, but not mandatory, as the VoiceXML browser can use information within the XML document to verify it is a VoiceXML document. For prompt, recognize and record interfaces the MIME content type is more important. Support for the following audio formats is recommended for play and record operations, but not mandatory.

MIME Content	Type Description
audio/basic	RAW (headerless) 8kHz 8-bits mono mu-law [PCM] single channel. (G.711)
audio/x-alaw-basic	RAW (headerless) 8kHz 8-bits mono A-law [PCM] single channel. (G.711)
audio/x-wav	WAV (RIFF header) 8kHz 16-bits mono [PCM] single channel.
audio/X-WAV	WAV (RIFF header) codec GSM (6.10) 7-bits mono single channel.
audio/x-gsm	GSM (6.10) 7-bits mono single channel.
video/mp4	MP4 (Iso file) H.263 7 fps, mulaw/alaw/AMR-NB
video/3gp	3GP (Iso file) H.263 7fps, AMR-NB

The length of time the VoiceXML browser caches an item fetched from a web server is controlled by the caching values returned in the HTTP/1.1 header. The VoiceXML browser currently only supports the "Expires" header, which defines the date and time when the VoiceXML browser must discard the cached copy and re-fetch from the web server. Some web servers allow defining caching property defaults based on the MIME content type, useful for allowing caching of audio files but not dynamically generated VoiceXML documents, for example.

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