**Asterisk Configuration**

**Configuration Guide**

You've [installed Asterisk](http://www.voip-info.org/wiki/view/Asterisk+installation+tips) and verified that it will [start up](http://www.voip-info.org/wiki/view/Asterisk+Starting+and+Stopping). Now how do you go about configuring your PBX? The first thing you need to do is tell Asterisk what telephone connections (to handsets and exchanges, whether by physical wire or by IP) you have. These are called **channels**.

* [**Asterisk Channel Configuration**](http://www.voip-info.org/wiki/view/Asterisk+channels)

The next task is to configure the Dialplan. The dialplan routes every call in the system from its source through various applications to its final destination.

* [**Asterisk Dialplan Configuration**](http://www.voip-info.org/wiki/view/Asterisk+config+extensions.conf)

You're up and running now. But what about some extra bells and whistles?

* Music on Hold
* Call Parking
* Billing
* Management interfaces

Templates

[Templates](http://www.voip-info.org/wiki/view/Asterisk+config+template) can assist to avoid repeating the same section(s) again and again in your Asterisk configuration files.

Generating Configuration Files from Templates

The [STS Template Engine](http://www.voip-info.org/wiki/view/STS+Template+Engine) can generate Asterisk configuration files from templates. It has its own macro language for conditional template expansion and is available in source code for embedding into your own applications. The library sources could also be used to build a standalone command line utility.

**Alternative Methods of Configuration**

* GUI or Web based setup tools, see [Asterisk GUI](http://www.voip-info.org/wiki/view/Asterisk+GUI)
* MySQL etc databases

**Configuration Reference**

Master configuration file:

* [**asterisk.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+asterisk.conf): Tell Asterisk the directories where everything is, including the directory containing all the other configuration files. By default, Asterisk looks for the asterisk.conf file in the /etc/asterisk directory, but you can [supply a command line parameter](http://www.voip-info.org/wiki/view/Asterisk+Starting+and+Stopping) to use a different asterisk.conf file.

Configuration of [Asterisk channels](http://www.voip-info.org/wiki/view/Asterisk+channels):

* [**adtranvofr.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+adtranvofr.conf): Configure voice over frame relay (Adtran style) channels
* [**agents.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+agents.conf): Configure [agent channels](http://www.voip-info.org/wiki/view/Asterisk+agent+channels)
* [**h323.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+h323.conf): Configure [H323 channels](http://www.voip-info.org/wiki/view/Asterisk+H323+channels)
* [**iax.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+iax.conf): Configure [IAX channels](http://www.voip-info.org/wiki/view/Asterisk+IAX+channels)
* [**mgcp.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+mgcp.conf): Configure [MGCP channels](http://www.voip-info.org/wiki/view/Asterisk+MGCP+channels)
* [**modem.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+modem.conf): Configure [Modem channels](http://www.voip-info.org/wiki/view/Asterisk+Modem+channels) (for ISDN, not for modems!)
* [**phone.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+phone.conf): Configure [phone channels](http://www.voip-info.org/wiki/view/Asterisk+phone+channels) (Linux Telephony devices)
* [**sip.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+sip.conf): Configure [SIP channels](http://www.voip-info.org/wiki/view/Asterisk+SIP+channels)
* [**sip\_notify.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+sip_notify.conf): Configure SIP NOTIFY messages
* [**skinny.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+skinny.conf): Configure Asterisk Skinny channels (Cisco SCCP)
* [**vpb.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+vpb.conf): Configure [vpb channels](http://www.voip-info.org/wiki/view/Asterisk+vpb+channels" \o "Asterisk vpb channels) (Voicetronix cards)
* [**zapata.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+zapata.conf): Configure [Zap channels](http://www.voip-info.org/wiki/view/Asterisk+ZAP+channels) (Digium cards)

Configuration of [Analog Display Services Interface](http://www.voip-info.org/wiki/view/ADSI):

* [**adsi.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+adsi.conf)
* [**asterisk.adsi**](http://www.voip-info.org/wiki/view/Asterisk+config+asterisk.adsi)
* **Asterisk config telcordia-1.adsi**

Configuration of the [Dialplan](http://www.voip-info.org/wiki/view/Asterisk+config+extensions.conf" \o "Asterisk config extensions.conf):

* [**extconfig.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+extconfig.conf): Used by res\_data to arrange external configuration (e.g. thru ODBC)
* [**extensions.ael**](http://www.voip-info.org/wiki/view/Asterisk+AEL): The Asterisk Extensions Language
* [**extensions.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+extensions.conf): The Dialplan
* [**parking.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+parking.conf): [Call Parking](http://www.voip-info.org/wiki/view/Asterisk+call+parking) configuration. Note: This file has been renamed to **features.conf** as of Asterisk 1.0rc1 (17 july 2004)

Configuration of specific [Dialplan Commands](http://www.voip-info.org/wiki/view/Asterisk+-+documentation+of+application+commands" \o "Asterisk - documentation of application commands):

* [**alarmreceiver.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+alarmreceiver.conf): [AlarmReceiver](http://www.voip-info.org/wiki/view/Asterisk+cmd+AlarmReceiver" \o "Asterisk cmd AlarmReceiver) configuration
* [**chan\_dahdi.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+chan_dahdi.conf): Asterisk cmd DAHDiLookup configuration
* [**dundi.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+dundi.conf): [DUNDiLookup](http://www.voip-info.org/wiki/view/Asterisk+cmd+DUNDiLookup" \o "Asterisk cmd DUNDiLookup) configuration
* [**enum.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+enum.conf): [EnumLookup](http://www.voip-info.org/wiki/view/Asterisk+cmd+EnumLookup" \o "Asterisk cmd EnumLookup) configuration
* [**festival.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+festival.conf): [Festival](http://www.voip-info.org/wiki/view/Asterisk+cmd+Festival) configuration
* [**indications.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+indications.conf): [Playtones](http://www.voip-info.org/wiki/view/Asterisk+cmd+Playtones" \o "Asterisk cmd Playtones) tone definitions
* [**meetme.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+meetme.conf): [MeetMe](http://www.voip-info.org/wiki/view/Asterisk+cmd+MeetMe" \o "Asterisk cmd MeetMe) conference configuration
* [**musiconhold.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+musiconhold.conf): [MusicOnHold](http://www.voip-info.org/wiki/view/Asterisk+cmd+MusicOnHold" \o "Asterisk cmd MusicOnHold) configuration
* [**queues.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+queues.conf): [Queue](http://www.voip-info.org/wiki/view/Asterisk+cmd+Queue) configuration
* [**voicemail.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+voicemail.conf): [VoiceMail](http://www.voip-info.org/wiki/view/Asterisk+cmd+VoiceMail" \o "Asterisk cmd VoiceMail) configuration

Uncategorized configuration files:

* [**alarmreceiver.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+alarmreceiver.conf): Configuration file for the AlarmReceiver application
* [**alsa.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+alsa.conf)
* **Asterisk config cdr\_odbc.conf**
* **Asterisk config cdr\_pgsql.conf**: Configuration of PostgreSQL [CDR](http://www.voip-info.org/wiki/view/CDR) database for billing
* [**cel.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+cel.conf)
* [**cel\_pgsql.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+cel_pgsql.conf)
* [**codecs.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+codecs.conf)
* [**dnsmgr.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+dnsmgr.conf): Background DNS update manager (new in Asterisk v1.2)
* [**features.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+features.conf): Call Parking and other features
* [**http.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+http.conf): Built-in mini HTTP server
* [**logger.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+logger.conf): Configuration of what to log and where to log it
* [**manager.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+manager.conf): Configuration of the [Asterisk manager API](http://www.voip-info.org/wiki/view/Asterisk+manager+API)
* [**modules.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+modules.conf): Configuration of Asterisk module loading
* **Asterisk config odbc.conf**: Configuration of [UnixODBC](http://www.voip-info.org/wiki/view/unixODBC" \o "unixODBC) drivers for Asterisk
* [**oss.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+oss.conf)
* [**privacy.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+privacy.conf)
* [**res\_odbc.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+res_odbc.conf)
* [**rpt.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+rpt.conf)
* [**rtp.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+rtp.conf): Configuration of [RTP](http://www.voip-info.org/wiki/view/RTP) ports for media
* [**say.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+say.conf): Internationalised numbers and dates (new in Asterisk v1.4)
* [**users.conf**](http://www.voip-info.org/wiki/view/Asterisk+config+users.conf): Generate a "user" (phone, dioalplan, and just about everything)

**Add on modules, not in standard source distribution**

* [bonjour.conf](http://www.voip-info.org/wiki/view/Asterisk+config+bonjour.conf): Configuration for [res\_bonjour (aka Rendezvous, aka Zeroconf)](http://www.mezzo.net/asterisk" \t "_blank)
* [capi.conf](http://www.voip-info.org/wiki/view/Asterisk+config+capi.conf): Configuration of [CAPI channels](http://www.voip-info.org/wiki/view/Asterisk+CAPI+Channels) and devices.
* [cdr\_mysql.conf](http://www.voip-info.org/wiki/view/Asterisk+config+cdr_mysql.conf): Configuration of MySQL [CDR](http://www.voip-info.org/wiki/view/CDR) database for [billing](http://www.voip-info.org/wiki/view/Asterisk+billing)
* [enumagi.conf](http://www.voip-info.org/wiki/view/Asterisk+config+enumagi.conf): Configuration file for enumlookup.agi
* [ldap.conf](http://www.voip-info.org/wiki/view/Asterisk+config+ldap.conf): Configuration for [LDAPget](http://www.voip-info.org/wiki/view/Asterisk+cmd+LDAPget" \o "Asterisk cmd LDAPget)
* [prepaid.conf](http://www.voip-info.org/wiki/view/Asterisk+config+prepaid.conf): Configuration of Prepaid calling card system.
* [sirrix.conf](http://www.voip-info.org/wiki/view/Asterisk+config+sirrix.conf): Configuration of [Sirrix ISDN channels](http://www.voip-info.org/wiki/view/Asterisk+Sirrix+ISDN+channels" \o "Asterisk Sirrix ISDN channels)
* [zeroconf.conf](http://www.voip-info.org/wiki/view/Asterisk+config+zeroconf.conf): Configuration file defining services and parameters to advertise via Zeroconf

In most installations, these files are placed in **/etc/**

* [/etc/zaptel.conf](http://www.voip-info.org/wiki/view/Asterisk+config+zaptel.conf): Configuration of the kernel part of [zaptel](http://www.voip-info.org/wiki/view/Zaptel" \o "Zaptel)
* [voximal.conf](http://www.voip-info.org/wiki/view/Asterisk+config+voximal.conf): Configuration of the VoiceXML interpreter [voximal](http://www.voip-info.org/wiki/view/Asterisk+Cmd+Voximal" \o "Asterisk Cmd Voximal)