

# Google Voice API

## Adding Google Voice as an outgoing destination

## Create yourself a Google Voice account (or reconfigure an existing one)

- a) Go to [www.google.com/voice](http://www.google.com/voice)
- b) Login to Google voice, creating a new Google voice number if you don't have one yet
- c) Add a destination number which would be a DID inbound to your PBX (this will be the number google voice calls back on when establishing the outbound call)

### Install pygooglevoice API utility

- a) Install python, python-setuptools and mercurial system packages
- b) `easy_install simplejson`
- c) `hg clone https://pygooglevoice.googlecode.com/hg/ pygooglevoice`
- d) `cd pygooglevoice/`
- e) `sudo python setup.py install`
- f) `sudo -u freeswitch HOME=/opt/freeswitch gvoice # this will create /opt/freeswitch/.gvoice`
- g) Setup your email and password in `/opt/freeswitch/.gvoice`
- h) Setup the forwardingNumber to be the DID inbound number, with the appropriate phoneType

### Create the outbound dialplan

- a) Create `freeswitch/conf/dialplan/default/02_googlevoice.xml` with the following contents (replacing DIDNUMBER with the number above):

```
<!-- dial via googlevoice callback -->
<extension name="googlevoice">
  <condition field="destination_number" expression="^33(\d+)$">
    <action application="hash" data="insert/googlevoice/uuidDIDNUMBER/${uuid}" />
    <action application="set" data="tts_engine=flite"
  />
    <action application="set" data="tts_voice=rms"
  />
    <action application="speak" data="Please wait while we connect you via Google Voice"/>
    <!-- do gvoice call here -->
    <action application="system" data="HOME=/opt/freeswitch gvoice call $1" />
    <action application="park" />
  </condition>
</extension>
```

Modification: ntrnbaon on Nov 21 2011 Thanks for the great tutorial. Based on this, I can do multi trunks of google voices properly. Below is a nicer outbound dialplan that generates connecting tone for caller, and explicitly specify all required parameters for gvoice script. (Note that a "&" at the end of gvoice command is to let Freeswitch continue IMMEDIATELY without having to wait for the SYSTEM() command to finish)

```
<condition field="destination_number" expression="^33(\d+)$">
  <!-- dial via googlevoice callback -->
  <action application="hash" data="insert/googlevoice/uuidDIDNUMBER/${uuid}" />
  <!-- do gvoice call here -->
  <action application="system" data="gvoice -e google-voice-email -p google-voice-password call
$1 10-digit-callback-No &" />
  <action application="playback" data="tone_stream://%(50,50,350);loops=-1" />
</condition>
```

Modify your DID inbound extension to add the intercept call

- a) Replace DIDNUMBER with your configured Google Voice callback number
- b) Replace GOOGLEVOICEEXT with the extension to answer any google voice calls to the DIDNUMBER that don't have an attached outgoing call.

```
<extension name="DIDNUMBER">  
  <condition field="destination_number" expression="^DIDNUMBER$">  
    <action application="intercept" data="{hash(select/googlevoice/uuidDIDNUMBER)}" />  
    <action application="transfer" data="GOOGLEVOICEEXT XML default"/>  
  </condition>  
</extension>
```