

# Using the Generative Artificial Intelligence, talking with ChatGPT

This page reorganizes the operational steps for **Using the Generative Artificial Intelligence, talking with ChatGPT**.

To be able to talk with ChatGPT, you need three service subscriptions:

- A Google Speech to Text subscription using a Service Account
- A ChatGPT API Key with at least some credit
- A Google Text to Speech subscription using a API Key

For Google Speech to Text, you need to log into the Google console at <https://console.cloud.google.com/> and create/select a Project.

In the APIs & Services page, enable the [ Cloud Speech-to-Text API ].

You need to create a Service Account. You can go back in the IAM & Admin page and select [ Service Accounts ] or using the [ Credentials ] section, create a Service Account. Be aware the service account authentication is a JSON file that the web page download automatically and once downloaded, it cannot be downloaded, so you need to carefully save it.

This is the page you are looking for when creating the service account.

thumb

For Google Text to Speech, you need to log into the Google console at <https://console.cloud.google.com/> and create/select a Project.

In the APIs & Services page, enable the [ Cloud Speech-to-Text API ].

You need to create an API key. Access the Credentials for the [ APIs & Services ] and create an API key. You can restrict the IP allowed to use the service. An API key is something like AlzaSyAVA4f5Q53sxdeAFVESiL1AHdrBXt\_q8gc

For ChatGPT API Key, you need to log into the ChatGPT platform at <https://platform.openai.com/>

Press the [ Start building ] button on the top right and create an Organization. Continue until you can generate the key and buy some credit.

You can review your credit from the project setting page at <https://platform.openai.com/settings/organization/general> by choosing Usage

## AGI or AEAP

You can use the chatGPT integration in both ways, but the AEAP is the best way. AGI will soon be removed. To be able to use the AEAP you need to be sure to have asterisk configured to support this protocol. I am unsure about the oldest asterisk version using it, but it will be advisable to use latest Asterisk 20.x. To configure AEAP in asterisk, you need to create a `/etc/asterisk/aeap.conf` with the following content:

```
[my-speech-to-text]
```

```
type=client
```

```
codecs=!all,ulaw
```

```
url=ws://127.0.0.1:9099
```

```
protocol=speech_to_text
```

This will allow direct and very fast speech to text translation using Google Speech services

## Functions

Functions are available using gpt-4-turbo and allow the AI to identify your request, ask the parameter and trigger the execution of the destinations. The parameter identified will be available as `USR-parametername`

## Current Verification

After applying the change, verify the related MiRTA PBX page, the Asterisk logs, and the relevant Status menu entry. Recheck tenant selection before testing tenant-specific behavior.

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