Cinegy AI Subtitle 25.10 Manual

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Currently, Cinegy provides a speech recognition solution built on open-source Whisper.cpp, offering fast and accurate transcription powered by local processing. This guide walks you through the necessary steps for installation and configuration of Cinegy's WebSpeechtotext service as well as its integration with Cinegy Subtitling Service. This combination is used for the automated speech-to-text recognition and transcription of the audio from the incoming media stream.



Speech recognition is currently available as a beta feature. Access to this solution is available upon request through the Cinegy Support Team.

Prerequisites and Installation

To ensure optimal performance and compatibility, follow these steps when installing and configuring the WebSpeechtotext service on a Windows 10 or Windows 11 operating system:

1. Update Windows

Before proceeding, ensure your operating system is up to date. Go to *Settings* > *Update & Security* > *Windows Update* and install any pending updates. This helps prevent compatibility issues and ensures access to the latest system improvements.

2. Install Visual C++ Redistributable

It is required to install the latest Microsoft Visual C++ Redistributable from the official Microsoft website. Choose the latest version appropriate to your OS system architecture.

3. Install the Latest NVIDIA Drivers

Install the latest drivers for your NVIDIA GPU from the NVIDIA official website. Select your GPU model, download the latest driver, and follow the installation prompts.

4. Reboot Your Computer

After updating your system and installing the required components, reboot your machine. This ensures that all changes take effect properly.

5. Download the WebSpeechtotext package

Download the *WebSpeechtotext* application package and extract the contents of the archive to a folder of your choice.

For example: `C:\WebSpeechtotext`

6. Download the Speech Recognition Models

To enable transcription functionality, download the models (files with the *.bin* extension) required by Whisper:

Link: Download from Hugging Face



Note that `ggml-large-v3.bin` is used as a default model, as specified in the configuration file below. However, you can experiment with other models if desired.

Place the model file into the same directory where you extracted the application. It is also possible to place the model archive in any other directory.

For example: `C:\WebSpeechtotext\models`

Starting

Starting the WebSpeechToText Service

There are two ways to start the WebSpeechToText service.

The simplest method is to launch the service directly with the **WebSpeechToText.exe** file from the folder where it was extracted. However, this approach may be less reliable in the event of abnormal startup conditions, especially during the first launch. If the service fails to start, you can check the log file at the following location: `C:\ProgramData\Cinegy\WebSpeechtotext`

Alternatively, you can start the service using the Windows terminal. Although this method requires additional steps, it provides full visibility into the process and allows better control over service behavior. So, using the terminal is recommended for initial setup and troubleshooting.

To start the service via terminal, follow these steps:

1. Open the Windows terminal

Press `Win+R` and type `cmd` in the Run window. Then press `Enter`.

2. Navigate to the WebSpeechtotext application folder

In the Windows terminal, type the following command:

```
cd [path to the folder where the WebSpeechtotext service files are extracted]
```

Press `Enter`.

For example: `cd C:\WebSpeechtotext`

3. Run the application executable

In the Windows terminal, type the following command:

```
WebSpeechtotext.exe
```

Press `Enter`.

4. Allow network access if prompted

If prompted by Windows Firewall, allow the application to access the network to ensure it can function properly.

Result

Following is an example of the Terminal output:

```
Runtime Identifier: win-x64
OS Description: Microsoft Windows 10.0.19045
Working folder [C:\WebSpeechtotext\]
Log folder [C:\ProgramData\Cinegy\WebSpeechtotext]
2025-05-23 13:08:17.2943 (INFO)     Program              LOCAL IP: "List of
interfaces. Like this: [192.168.0.2] [127.0.0.1]"
2025-05-23 13:08:17.3142 (INFO)     Core                 Settings: Set model path
["./models"]
2025-05-23 13:08:17.3142 (INFO)     Core                 Settings: Set model name
["ggml-large-v3.bin"]+
2025-05-23 13:08:17.4701 (INFO)     Program              Run test...
2025-05-23 13:08:17.7021 (DEBUG)    Core                 Library loaded successfully
2025-05-23 13:08:17.7021 (DEBUG)    Core                 Create(empty)...
2025-05-23 13:08:17.7483 (DEBUG)    Core                 Whisper Wrapper created.
2025-05-23 13:08:17.7483 (DEBUG)    Core                 Destroy Whisper Wrapper
[NULL]
2025-05-23 13:08:17.7483 (INFO)     Program              End test. Ok
2025-05-23 13:08:19.9013 (INFO)     Lifetime             Now listening on:
http://[::]:55000
2025-05-23 13:08:19.9372 (INFO)     Lifetime             Application started. Press
Ctrl+C to shut down.
2025-05-23 13:08:19.9674 (INFO)     Lifetime             Hosting environment: Release
2025-05-23 13:08:19.9674 (INFO)     Lifetime             Content root path:
C:\WebSpeechtotext
2025-05-23 13:08:20.9657 (INFO)     SpeechToTextControll Observer connect [::1]
2025-05-23 13:08:20.9675 (INFO)     Core                 Startup model settings
["C:\WebSpeechtotext\models\ggml-large-v3.bin"]
2025-05-23 13:08:20.9675 (DEBUG)    Core                 Create...
2025-05-23 13:08:20.9675 (DEBUG)    Core                 Whisper Wrapper created.
```

At this point, the WebSpeechtotext service is running and ready to accept requests.

WebSpeechtotext Default Settings

The **appsettings.json** and **appsettings.Production.json** configuration files are provided with the WebSpeechtotext installation package. They contain a basic set of values that must be adjusted for your environment before the initial launch of the WebSpeechtotext service.

Below is a version of the **appsettings.json** configuration file with some example values:

```
{
  "override_keys": {
    "model_search_path": "./models",
    "model_name": "ggml-large-v3.bin",
    "timeout_ms" : 0
  }
}
```

The `model_search_path` parameter defines the directory path where the speech recognition models are located. You can use a relative or absolute path.

The `model_name` parameter defines the filename of a model that will be used for speech recognition.

The `timeout_ms` parameter specifies a processing timeout in milliseconds. When "0" is defined, it means no timeout. This feature is considered experimental.

Below is a version of the **appsettings.Production.json** configuration file with some example values:

```
  "AllowedHosts": "*",
  "Kestrel": {
    "Endpoints": {
      "Http": {
        "Url": "http://*:55000"
      }
    }
  }
```

The `AllowedHosts` parameter controls which hosts are allowed to connect. Here, * means that all hosts are allowed.

The `Kestrel` parameter defines the configuration for the Kestrel web server that hosts the application.

The `Endpoints` parameter defines network endpoints, while `Http` – HTTP endpoint configuration.

The `Url` parameter defines *IP_Address:Port* to establish a TCP connection with the Cinegy Subtitling Service.

In the default configuration, the WebSpeechtotext service listens on port 55000 on all network interfaces. Please make sure that the port defined here is the same as you defined for the **Endpoint** parameter in the "RecognitionSource" section in the Cinegy Subtitling Service configuration.

Configuration

Cinegy Subtitling Service Configuration



For the full detailed description of the Cinegy Subtitling Service installation and setup, refer to the following **Quick Start Guide**.

The Cinegy Subtitling Service is configured via the **appsettings.json** file as described in the **Application Settings** article. This file is located at the following path: `C:\ProgramData\Cinegy\SubtitlingService`.

The following configuration fragment shows the channel settings for the Cinegy Subtitling Service when used with the automatic speech recognition plugin:

```
"SubtitleChannels": [
   {
     "Id": 0,
     "Mode": "Playlist",
     "ClearInterval": 500,
     "Repositories": [
       {
         "Id": 0,
         "Language": "ENG",
         "FileSource": {
           "FileSearchPolicy": "Auto",
           "Directory": "D:\\Subs\\ENG"
         },
         "LiveSource": {
           "Enabled": false,
           "EndPoint": "127.0.0.1:50125",
           "VerbosityEnabled": false
         },
         "RecognitionSource": {
           "Enabled": true,
           "EndPoint": "http://localhost:55000/",
           "MicIn": false,
           "Wrap": {
             "Enabled": true,
             "LineSize": 37,
             "MaxLines": 2
           }
         }
       }
     ],
     "Streams": [
       {
         "InputUrl": "srt://193.169.0.56:6201",
         "InputAdapter": "0.0.0.0",
         "InputSrtLatency": -1,
         "InputSrtPassphrase": null,
```

```
          "OutputUrl": "srt://0.0.0.0:6202",
          "OutputAdapter": "0.0.0.0",
          "OutputBackupAdapter": null,
          "OutputSrtPassphrase": null,
          "OutputTTL": 1,
          "FrameRate": "25",
          "VideoPid": 0,
          "Encoders": [
            {
              "Type": "Teletext",
              "RepositoryId": 0,
              "SubtitlePid": 4098,
              "SyncOffset": 0,
              "Magazine": 8,
              "Page": 1
            },
            {
              "Type": "DVB",
              "RepositoryId": 0,
              "SubtitlePid": 4099,
              "SyncOffset": 0,
              "FrameSize": "1920x1080"
            }
          ],
          "Multiplexer": {
            "Type": "Video",
            "Mode": "Insert",
            "SyncDelayFrames": 7,
            "SyncToleranceFrames": 0
          }
        }
      ]
    }
  ]
```

The new subtitling source for the speech recognition workflow is introduced in the Cinegy Subtitling Service v25.10. The fragment of configuration for "**RecognitionSource**" looks as follows:

```
          "RecognitionSource": {
            "Enabled": true,
            "EndPoint": "http://localhost:55000/",
            "MicIn": false,
            "Wrap": {
              "Enabled": true,
              "LineSize": 37,
              "MaxLines": 2
            }
          }
```

In the "**RecognitionSource**" section, set the `Enabled` parameter to "true" to enable the speech recognition source.

The `MicIn` parameter is responsible for enabling microphone input. If this parameter is set to "false", audio from the input stream is sent for recognition.

If the `Wrap` subsection is enabled, the text will be wrapped according to the parameters defined below.

Additionally, in the **"SubtitleChannels"** section, the new `Mode` parameter was implemented to define the work scenario for the Cinegy Subtitling Service for a specific channel.

```
"SubtitleChannels": [
    {
      "Id": 0,
      "Mode": "Playlist",
      "ClearInterval": 500,
      "Repositories": [
        {
```

Possible values are "Playlist" and "LiveRecognition". The specifics of these modes are described below.

LiveRecognition Mode

In this mode, the input stream, defined in the `InputUrl` parameter within the "Streams" section, will be sent to the speech recognition component for processing. The transcribed data obtained from the audio will be incorporated by the Cinegy Subtitling Service.

Playlist Mode

In "Playlist" mode subtitling source is defined via Subtitle ID in the Cinegy Air playlist item. This mode is used in scenarios of integration with Cinegy Air components, such as Cinegy Air control application, Cinegy Playout, and Cinegy Event Manager.



Refer to the **Common Architecture** section in the **Cinegy Subtitling Service Manual** for details.

Depending on the Subtitle ID value specified in the Cinegy Air playlist item, the Cinegy Subtitling Service uses the corresponding source for subtitle data:

- **AI** – speech recognition source.
- **Live** – live source (Newfor integration).
- **Subtitle file identifier** – file source.

For the Subtitling Service to use the speech recognition as a source for subtitle data, the SubtitleID for the corresponding playlist item should be defined as *AI*.