Cinegy Subtitle 25.10 Quick Start Guide

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Components Installation

Prerequisites

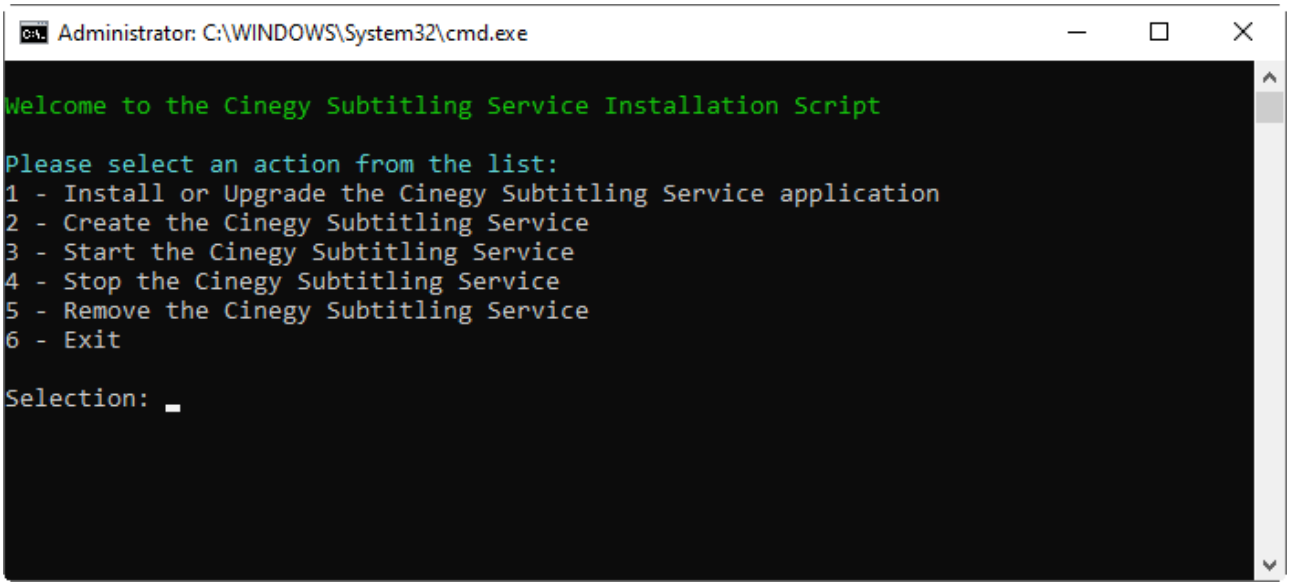
Make sure that you have at least the local administrator rights required to install and configure applications on your computer.

Ensure you have PowerShell version 7.2 or later installed.

Components Installation

1. Install Cinegy Air. The detailed directions are available in the Cinegy Air Installation article.
2. Install Cinegy Playout. The instructions are available in the following Installation article.
3. Install Cinegy Event Manager. The directions are available in the Installation article.
4. Install the Cinegy Subtitling Service.

   The Cinegy Subtitling Service can be installed and run as a Windows service. To do so, you should run the Configure-Services.bat file from your Cinegy Subtitling Service installation package using the "Run as administrator" command. The following management console window appears:



   Here consequently perform the following actions:

   1 - Install or Upgrade the Cinegy Subtitling Service application. This action will copy the SubtitlingService.exe file to the `C:\Program Files\Cinegy\Cinegy Subtitling Service` folder.

   2 - Create the Cinegy Subtitling Service. The Cinegy Subtitling Service will be added as a Windows service.

   3 - Start the Cinegy Subtitling Service. The Cinegy Subtitling Service will be started as a Windows service.

   6 - Exit. The management console window will be closed.

   After service installation, navigate to the `C:\ProgramData\Cinegy\SubtitlingService` folder and configure the **appsettings.json** file. The configuration varies for insertion and overwrite modes. The detailed description is provided in their respective articles.

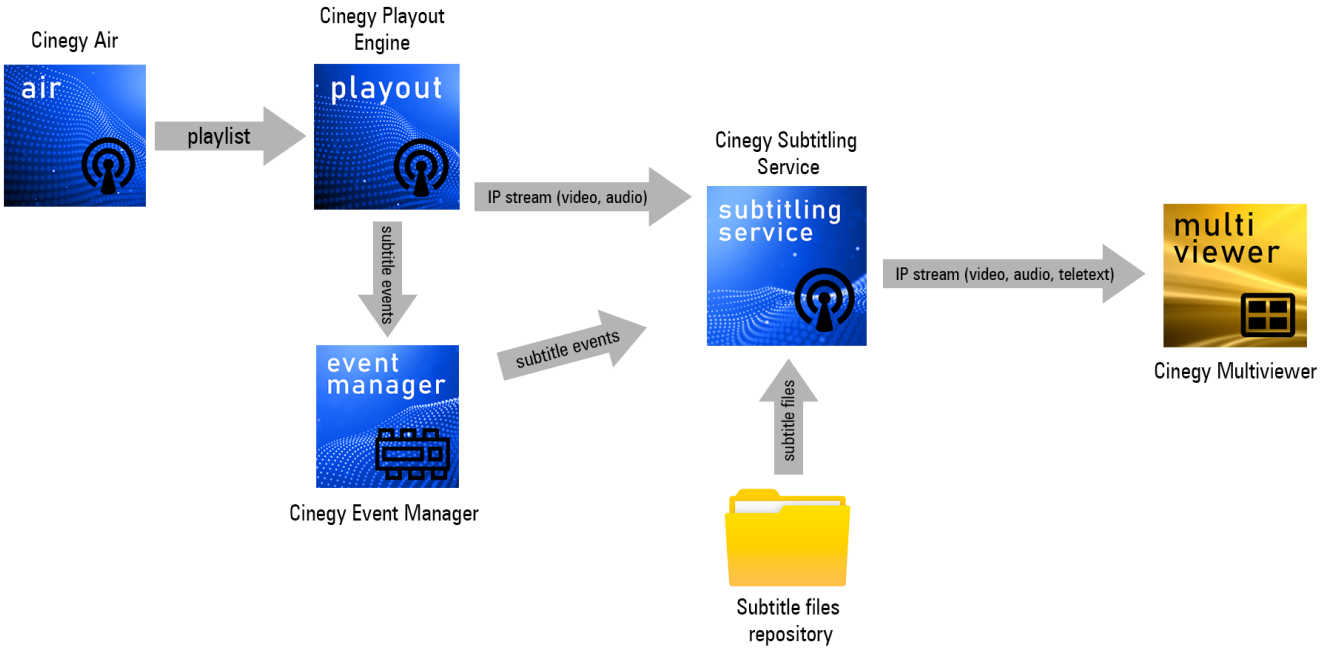
5. Install the IP stream viewer of your choice.

   In our example, we will be using Cinegy Multiviewer for viewing the output stream with added or overwritten subtitles. Refer to the following Installation article for installation directions.

Insertion Mode

In this article, we outline the functionality of the Cinegy Subtitling Service when operating in insertion mode. This mode is used when the Cinegy Playout engine generates an IP stream without any subtitle data. The Cinegy Subtitling Service encodes subtitle data taken from the subtitle file and events received from Cinegy Event Manager. Subsequently, it remuxes the incoming stream, embedding the subtitle data into it.

The following scheme illustrates which components are required to set up the subtitle insertion workflow:



Cinegy Subtitling Service Configuration

The following is an example of an **appsettings.json** file for the simple configuration of Teletext subtitles. Edit this file according to your workflow configuration:

```
{
  "ApplicationUrls": [
    "http://localhost:8501"
  ],
  "Logging": {
    "LogLevel": {
      "Default": "Trace",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Warning"
    }
  },
  "Telemetry": {
    "Enabled": false,
    "OrgId": "sandpit",
    "Tags": "dev, testchannel",
    "TelemetryServer": "https://telemetry.cinegy.com"
  },
  "Globals": {
    "LiveId": "LIVE",
    "SyncOffsetBase": 280
  },
  "SubtitleChannels": [
    {
      "Id": 0,
      "ClearInterval": 500,
      "Repositories": [
        {
          "Id": 0,
          "Language": "ENG",
          "FileSource": {
            "FileSearchPolicy": "Auto",
            "Directory": "D:\\Subtitles1"
          },
          "LiveSource": {
            "Enabled": true,
            "EndPoint": "127.0.0.1:50125",
            "VerbosityEnabled": false
          }
        }
      ],
      "Streams": [
        {
          "InputUrl": "rtp://@239.1.1.2:1234",
          "InputAdapter": "0.0.0.0",
          "InputSrtLatency": -1,
```

```
          "InputSrtPassphrase": null,
          "OutputUrl": "rtp://239.1.1.3:1234",
          "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
            },
          ],
          "Multiplexer": {
            "Type": "Video",
            "Mode": "Insert",
            "SyncDelayFrames": 7,
            "SyncToleranceFrames": 0
          }
        }
      ]
    }
  ]
}
```

Workflow Configuration

1. Prepare the subtitles repository with SRT files. In our example, it is `D:\\Subtitles1` – please ensure that your directory name includes a unique number. In the **appsettings.json** file, it is defined in the following section:

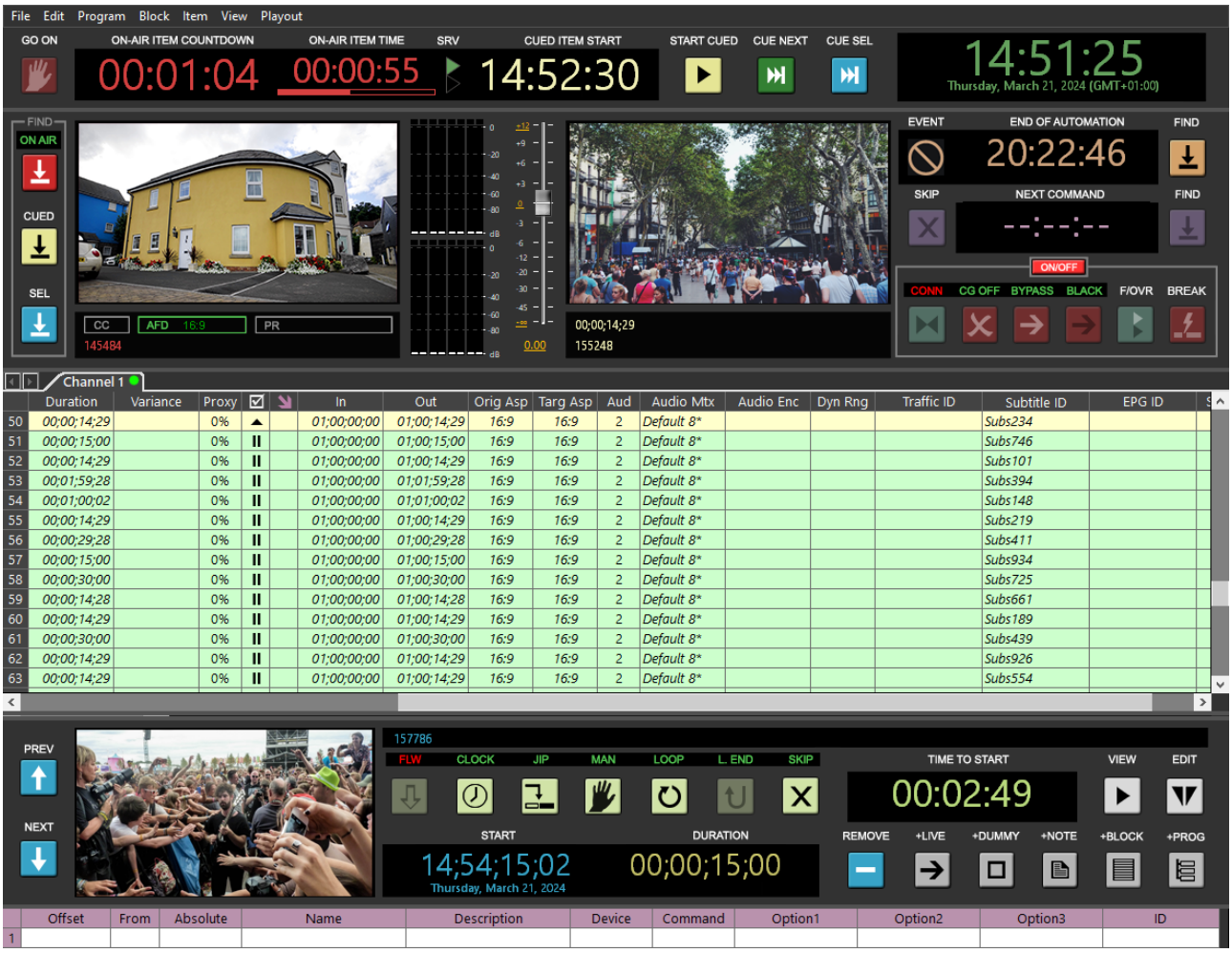
```
"Repositories": [
  {
    "Id": 0,
    "Language": "ENG",
    "FileSource": {
      "FileSearchPolicy": "Auto",
      "Directory": "D:\\Subtitles1"
    },
```

   Here also specify the subtitles language in the "Language" parameter.

   SRT files should have the corresponding Subtitle ID string as a part of their file name.

2. Create a playlist and add the corresponding Subtitle ID for the items.

> The "Subtitle ID" field can only be edited if the "Metadata editing" option is enabled in the Cinegy Air Configurator. The Subtitle ID can contain alphanumeric characters.





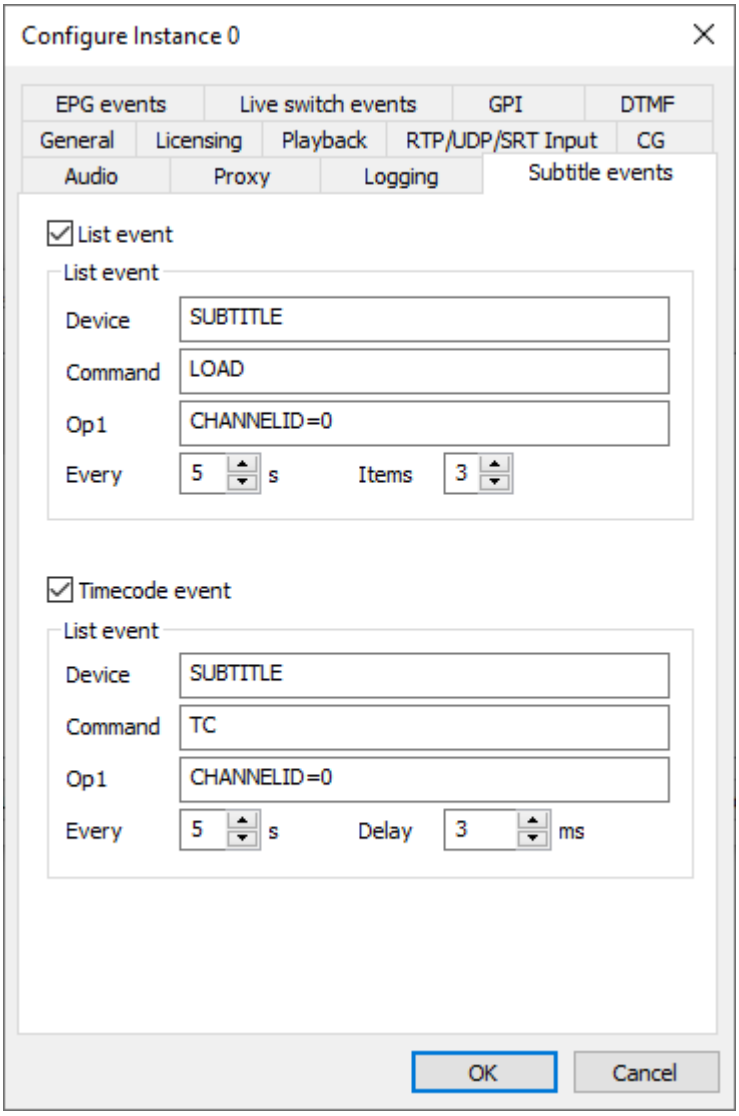
Make sure the initial timecodes of playlist items correspond to the timecodes within subtitle files.

3. Configure the Cinegy Playout engine. In this example, the RTP output is used:

In the **appsettings.json** file, input and output streams are defined in the following section:

```
"Streams": [
  {
    "InputUrl": "rtp://@239.1.1.2:1234",
    "InputAdapter": "0.0.0.0",
    "InputSrtLatency": -1,
    "InputSrtPassphrase": null,
    "OutputUrl": "rtp://239.1.1.3:1234",
    "OutputAdapter": "0.0.0.0",
    "OutputBackupAdapter": null,
    "OutputSrtPassphrase": null,
    "OutputTTL": 1,
    "FrameRate": "25",
    "VideoPid": 0,
    "Encoders": [
```

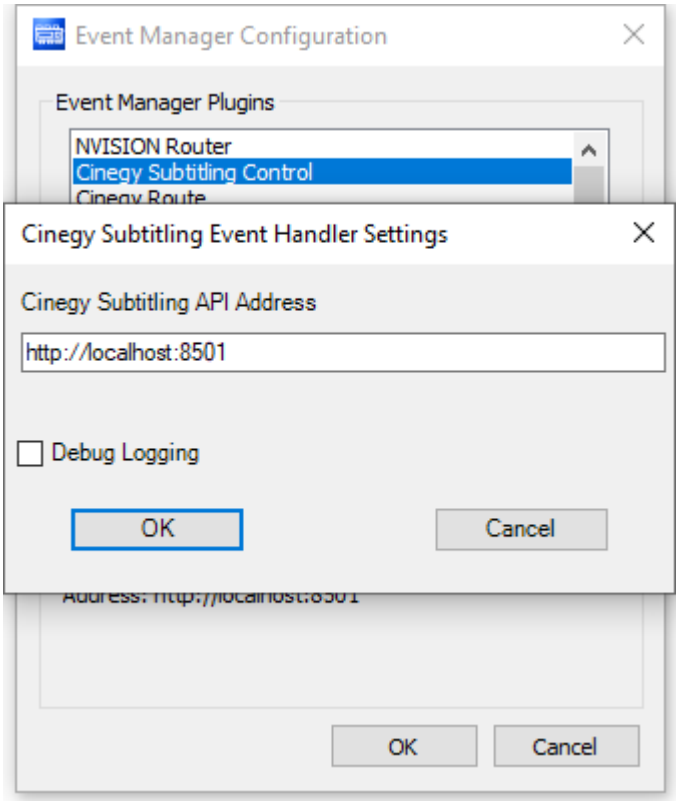
Then, on the "Subtitle events" tab, configure the events:



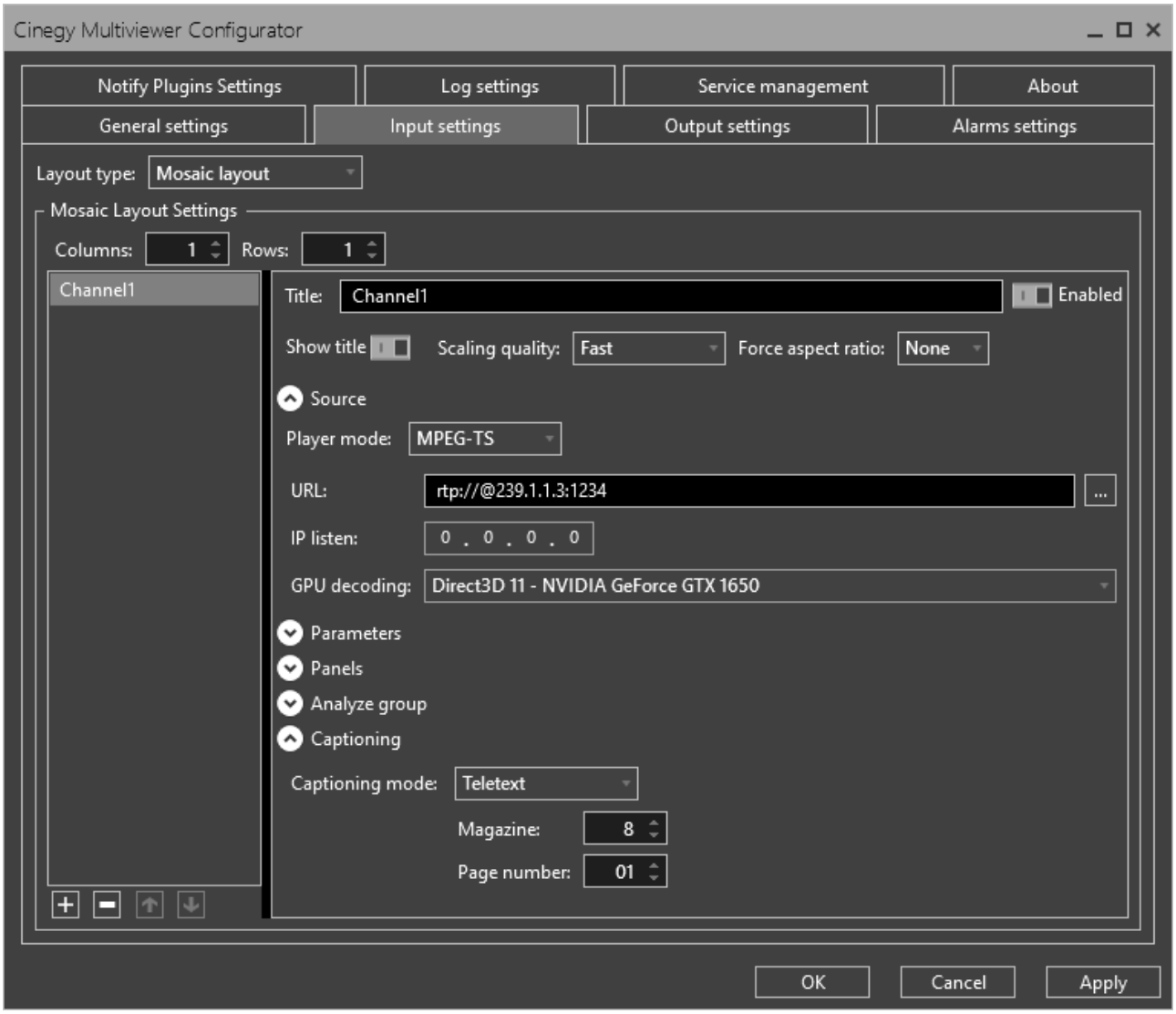
The channel ID in the "Op1" field should correspond to the value defined in the following section of an **appsettings.json** file:

```
"SubtitleChannels": [
  {
    "Id": 0,
    "ClearInterval": 500,
```

4. Cinegy Event Manager needs to be configured and activated. The Cinegy Subtitling API address defines the server where the Cinegy Subtitling Service is running.



5. (Optional) Configure the viewer for the stream with subtitles; in this example, it will be Cinegy Multiviewer. In the "Input settings" tab, set the MPEG-TS player mode. In the "URL" field, specify the address defined in the "OutputUrl" parameter within the **appsettings.json** file. The "Captioning mode" parameter should be set to "Teletext":



In the "Output settings" tab, add and enable Window Output.

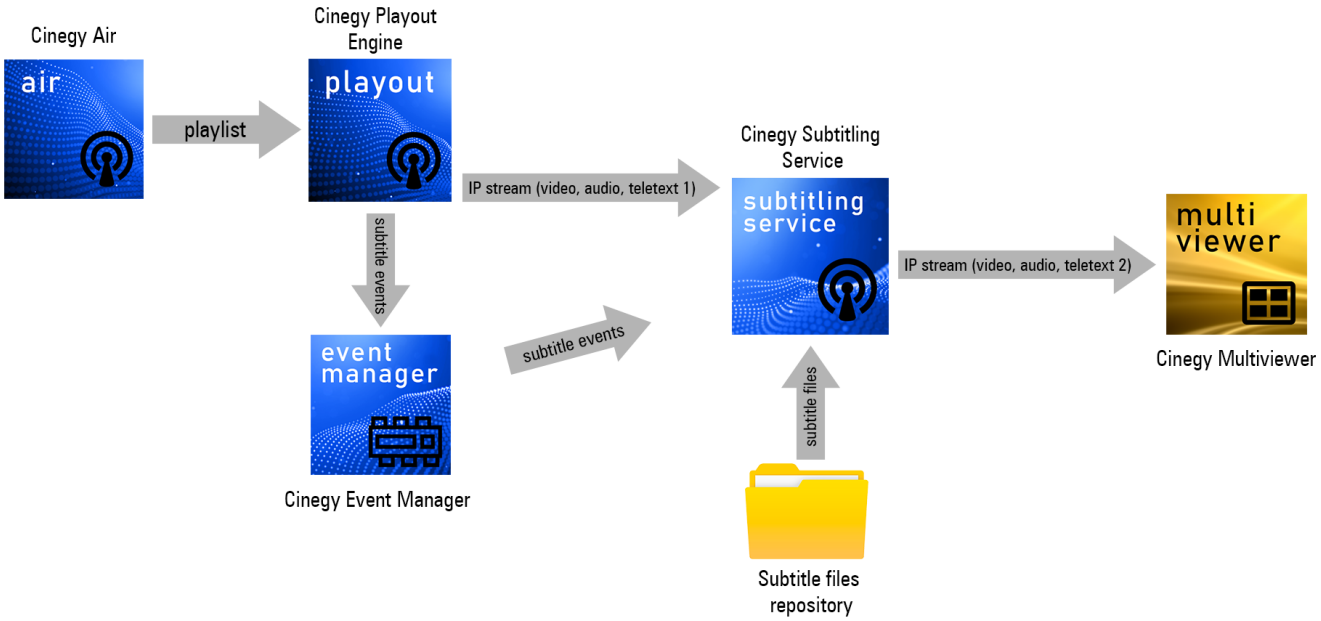
Apply the settings and launch the Cinegy Multiviewer application. The configured streams with subtitles will be displayed in the Cinegy Multiviewer window:


Cinegy Multiviewer[Direct3D9Ex]
Channel1
(Cliff) ..going to have a pizza.
(Terri) Can I have the digest? Thank

Overwrite Mode

In this article, we outline the functionality of the Cinegy Subtitling Service when operating in overwrite mode. In this mode, the Cinegy Subtitling Service replaces Teletext data in the incoming stream with subtitle data sourced from the subtitle file. This process is driven by events received from the Cinegy Event Manager.

The following scheme illustrates which components are required to set up the subtitle overwriting workflow:



Overwrite mode works only for Teletext subtitles.

Cinegy Subtitling Service Configuration

The following is an example of an **appsettings.json** file for the simple configuration of Teletext subtitles. Edit this file according to your workflow configuration:


```
{
  "ApplicationUrls": [
    "http://localhost:8501"
  ],
  "Logging": {
    "LogLevel": {
      "Default": "Trace",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Warning"
    }
  },
  "Telemetry": {
    "Enabled": false,
    "OrgId": "sandpit",
    "Tags": "dev, testchannel",
    "TelemetryServer": "https://telemetry.cinegy.com"
  },
  "Globals": {
    "LiveId": "LIVE",
    "SyncOffsetBase": 280
  },
  "SubtitleChannels": [
    {
      "Id": 0,
      "ClearInterval": 500,
      "Repositories": [
        {
          "Id": 0,
          "Language": "ENG",
          "FileSource": {
            "FileSearchPolicy": "Auto",
            "Directory": "D:\\Subtitles1"
          },
          "LiveSource": {
            "Enabled": true,
            "EndPoint": "127.0.0.1:50125",
            "VerbosityEnabled": false
          }
        }
      ],
      "Streams": [
        {
          "InputUrl": "rtp://@239.1.1.2:1234",
          "InputAdapter": "0.0.0.0",
          "InputSrtLatency": -1,
```

```
          "InputSrtPassphrase": null,
          "OutputUrl": "rtp://239.1.1.3:1234",
          "OutputAdapter": "0.0.0.0",
          "OutputBackupAdapter": null,
          "OutputSrtPassphrase": null,
          "OutputTTL": 1,
          "FrameRate": "25",
          "VideoPid": 0,
          "Encoders": [
            {
              "Type": "Teletext",
              "RepositoryId": 0,
              "SubtitlePid": 2049,
              "SyncOffset": 0,
              "Magazine": 8,
              "Page": 1
            },
          ],
          "Multiplexer": {
            "Type": "Video",
            "Mode": "Overwrite",
            "SyncDelayFrames": 7,
            "SyncToleranceFrames": 0
          }
        }
      ]
    }
  ]
}
```

Workflow Configuration

1. Prepare the subtitles repository with SRT files. In our example, it is `D:\\Subtitles1` – please ensure that your directory name includes a unique number. In the **appsettings.json** file, it is defined in the following section:

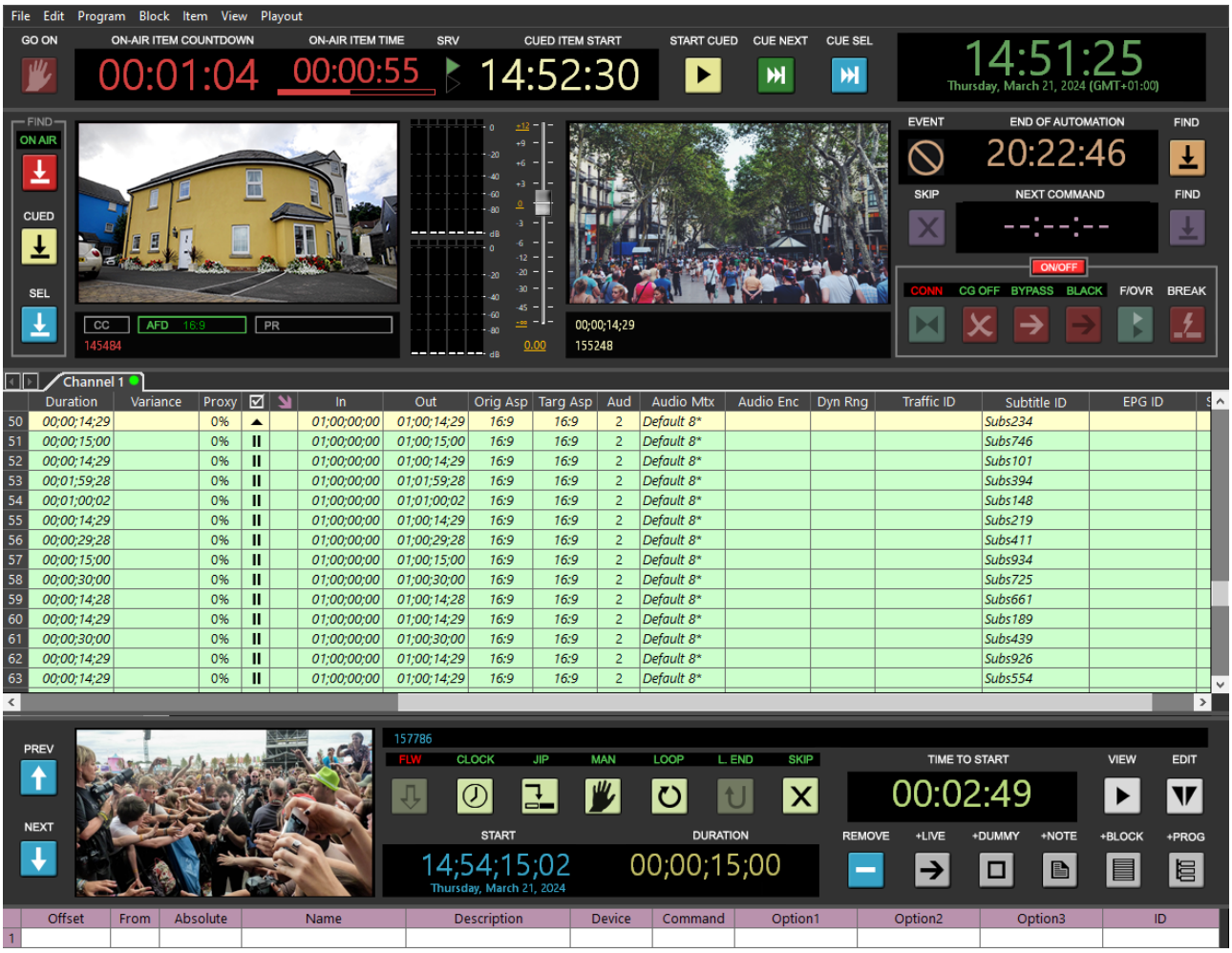
```
"Repositories": [
  {
    "Id": 0,
    "Language": "ENG",
    "FileSource": {
      "FileSearchPolicy": "Auto",
      "Directory": "D:\\Subtitles1"
    },
```

   Here also specify the subtitles language in the "Language" parameter.

   SRT files should have the corresponding Subtitle ID string as a part of their file name.

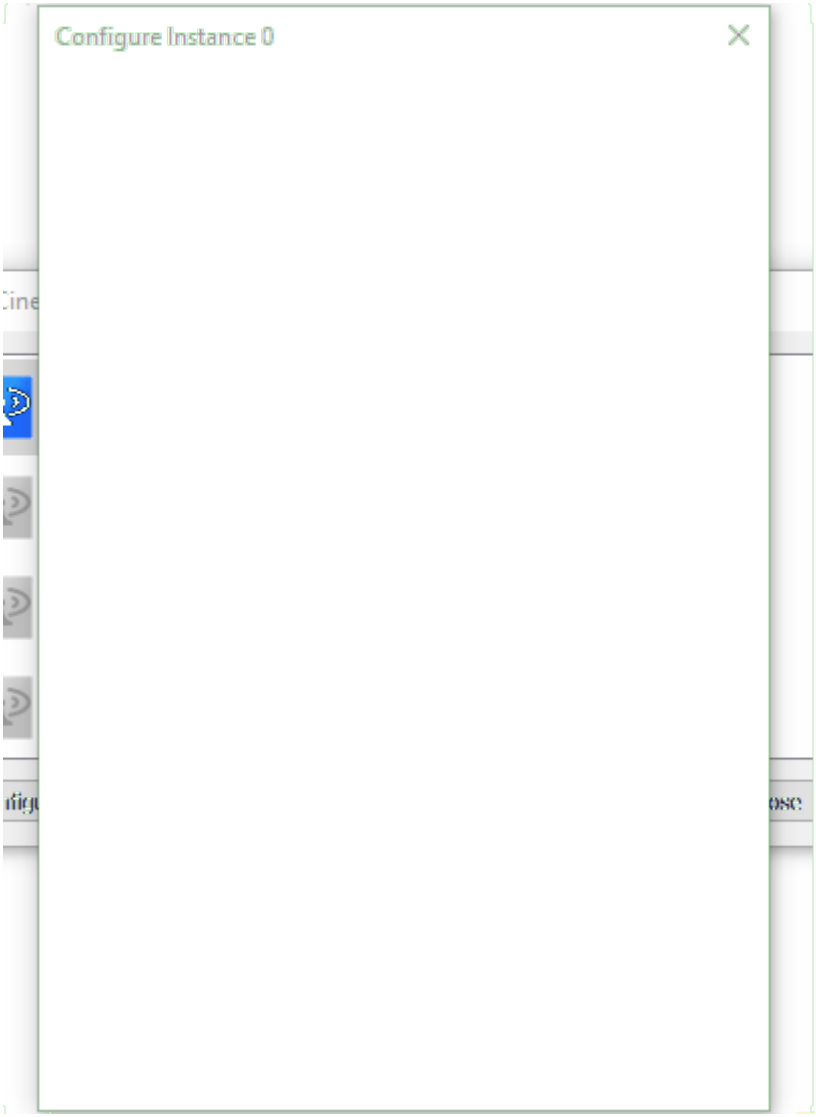
2. Create a playlist and add the corresponding Subtitle ID for the items. Use media with embedded Teletext data.

> The "Subtitle ID" field can only be edited if the "Metadata editing" option is enabled in the Cinegy Air Configurator. The Subtitle ID can contain alphanumeric characters.



Make sure the initial timecodes of playlist items correspond to the timecodes within subtitle files.

3. Configure the Cinegy Playout engine. In this example, the RTP output is used:



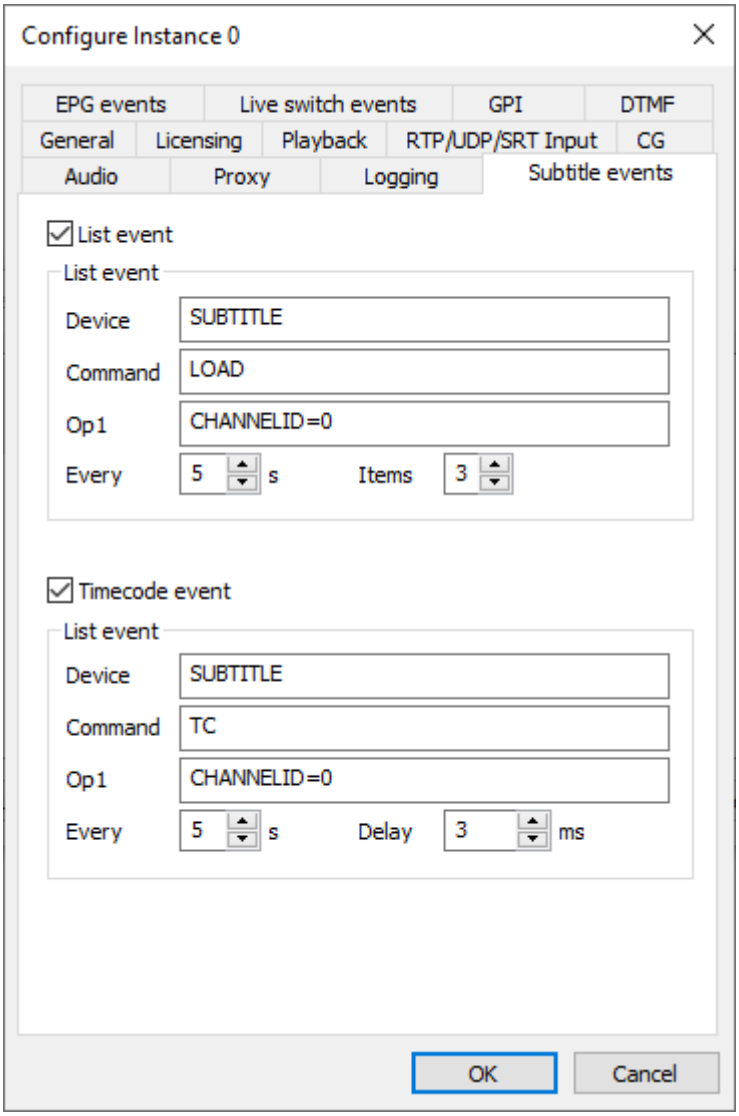
In the **appsettings.json** file, input and output streams are defined in the following section:

```
"Streams": [
  {
    "InputUrl": "rtp://@239.1.1.2:1234",
    "InputAdapter": "0.0.0.0",
    "InputSrtLatency": -1,
    "InputSrtPassphrase": null,
    "OutputUrl": "rtp://239.1.1.3:1234",
    "OutputAdapter": "0.0.0.0",
    "OutputBackupAdapter": null,
    "OutputSrtPassphrase": null,
    "OutputTTL": 1,
    "FrameRate": "25",
    "VideoPid": 0,
    "Encoders": [
```

The "Teletext Stream PID", magazine and page values, defined in the Cinegy Playout configurator, should also be specified in the corresponding parameters within the following section of the **appsettings.json** file:

```
{
  "Type": "Teletext",
  "RepositoryId": 0,
  "SubtitlePid": 2049,
  "SyncOffset": 0,
  "Magazine": 8,
  "Page": 1
},
```

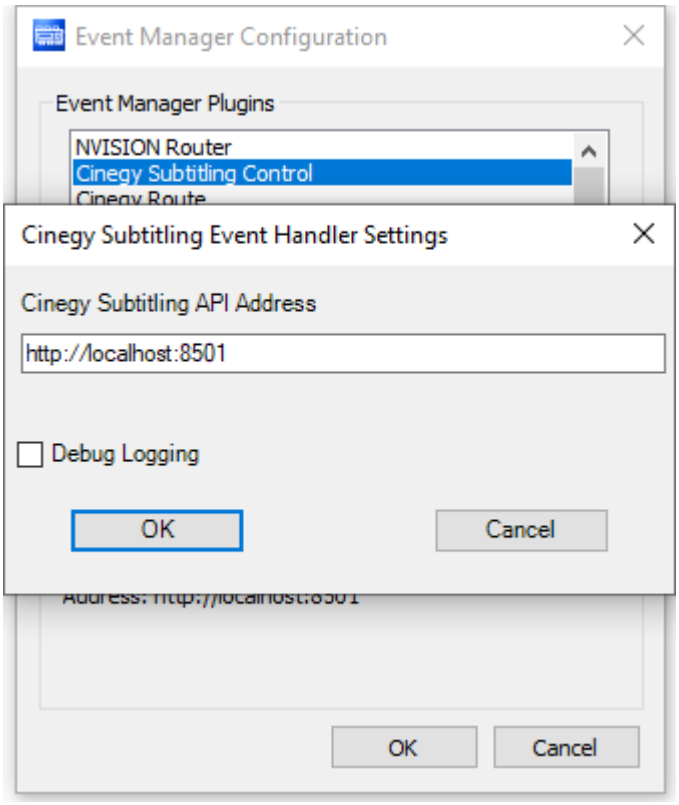
Then, on the "Subtitle events" tab, configure the events:



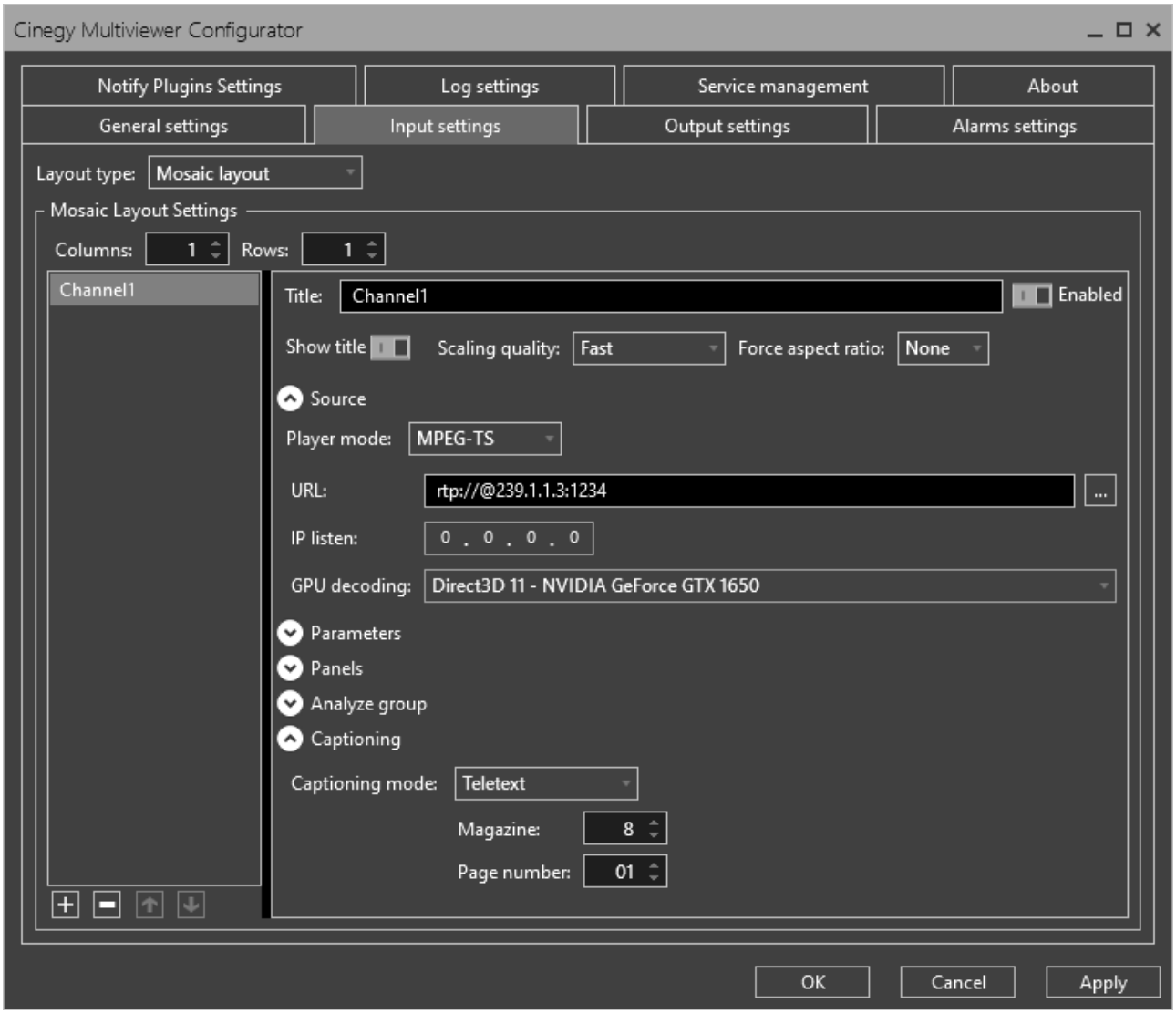
The channel ID in the "Op1" field should correspond to the value defined in the following section of the **appsettings.json** file:

```
  "SubtitleChannels": [
    {
      "Id": 0,
      "ClearInterval": 500,
```

4. Cinegy Event Manager needs to be configured and activated. The Cinegy Subtitling API address defines the server where the Cinegy Subtitling Service is running.



5. (Optional) Configure the viewer for the stream with subtitles; in this example, it will be Cinegy Multiviewer. In the "Input settings" tab, set the MPEG-TS player mode. In the "URL" field, specify the address defined in the "OutputUrl" parameter within the **appsettings.json** file. The "Captioning mode" parameter should be set to "Teletext":



In the "Output settings" tab, add and enable Window Output.

Apply the settings and launch the Cinegy Multiviewer application. The configured streams with subtitles will be displayed in the Cinegy Multiviewer window:


Cinegy Multiviewer[Direct3D9Ex]
Channel1
I thought that Graham Dixon was doing
a briefing but it was Graham Hughes.