Scala video streaming widget for IAdea media appliance

IAdea support team

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Foreword

- IAdea implemented the streaming widget to manage IAdea appliance to video streaming playback via Scala Content Manager. User can follow the instructions within the document to set up video streaming application. For best video streaming quality, We would like to suggest user to use FFmpeg to convert video and use Live555 media server to stream video. Both softwares are open source and free. User can obtain these two softwares easily.

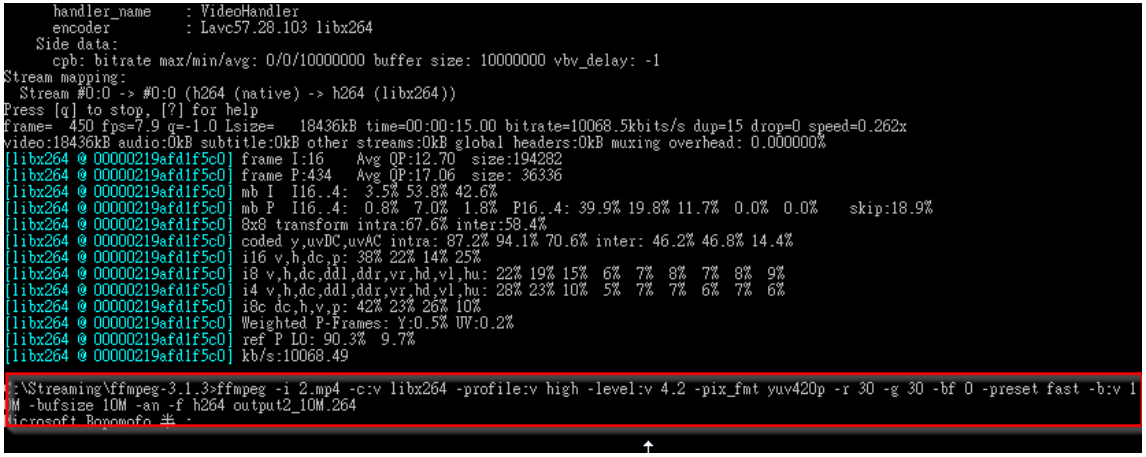
Agenda

- FFmpeg convert video.
- Live555 Streaming media server configuration.
- Scala Content Manager configuration.

IAdea

FFmpeg convert video

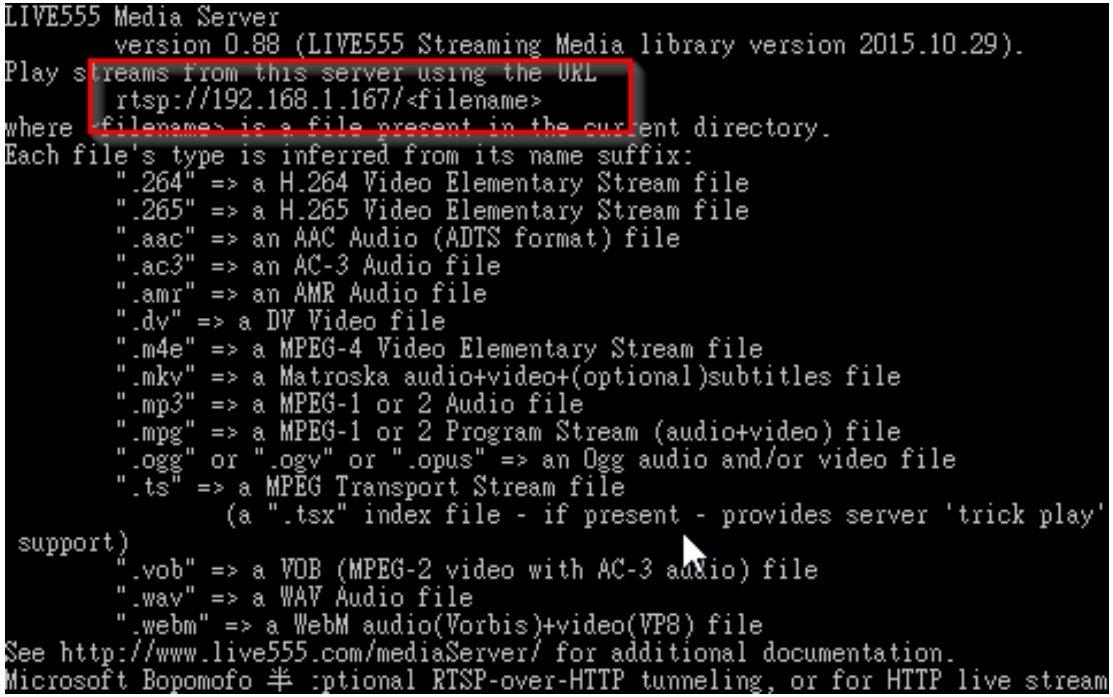
- Download FFmpeg to convert video.
  - https://www.ffmpeg.org/download.html
- Type following command line to convert video.
  - ffmpeg -i input.mp4 -c:v libx264 -profile:v high -level:v 4.2 -pix_fmt yuv420p -r 30 -g 30 -bf 0 -preset fast -b:v 10M -bufsize 10M -an -f h264 output.264



Live555 Streaming media server configuration

- Since Live555 official web site doesn't have pre-built binary versions for Windows platform. IAdea has complied a execution file for Windows environment for test purpose. User can download the execution file via below link to test.
  - https://s3.amazonaws.com/download.us.iadea.com/support/Miscellaneous/live555MediaServer_x86.exe

1. Once the Live555 Media Server execution file downloaded.
2. Place all videos that you want to broadcast, in the same folder of Live555
3. Launch the Live555 program, it shall return stream url on console as format as Rtsp://IP/<filename>



Scala Content Manager configuration

1. Obtain “Scala_Video_Streaming.wgt” from IAdea support.
2. Access Scala Content Manager then click select “Media Metadata” in system option.
3. Create a new streaming url field in Media Metadata to pass target RTSP url to the Scala_Video_Streaming.wgt” via Scala Content Manager.
   - Name: Streaming.Url
   - Data type: String
   - Value type: Any

4. Upload the widget as a media object to Scala Content Manager.
5. Find the MediaItem.Streaming.Url field in the widget's properties then type your target RTSP url and save.

MediaItem.Streaming.Url: rtsp://192.168.1.167/output_10M.264

6. Assign the widget into a playlist.
7. All done.

Thank You