WFS Pro Integration “WFS_EDL” Signiant Component

Pro Version 1.3

About

This component is considered to be an add-on for the main WFS Pro Edition Component of x-dream-media GmbH. It is intended to build what Rhozet used to call a “Complex XML” Input. The Output of this component is considered to be the same as if you would open the good old local Carbon Application, build some transcode Project and save the Project file.

Inputs

Input	Type	Value
Target Agents	Agent	harry-portable
Target Working Directory	FileDirectory	%dds_default_directory%
Target User	Textbox	%dds_default_user%
File List	Textbox	\\192.168.1.108\input\1....
Path to PCP File	Textbox	c:\test.PCP
Output xml Path and File...	Textbox	c:\input\input.pcp
mode	PickList	Append
UNC Path to seperator ...	Textbox	\\192.168.1.108\input\ö....
Segment List	Textbox	0:1,1:2,3:4
fps List	Textbox	25,25,25,25,25,25,25
Path to Mediainfo	Textbox	/usr/bin/mediainfo

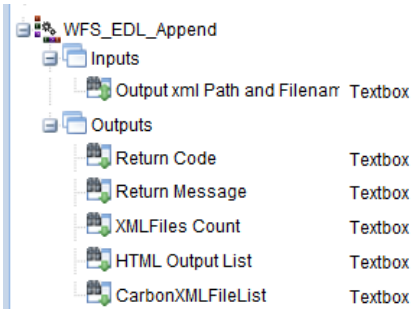
- Target Agent
  - The component`s Script is executed on this Agent, read on to get more information about what that Agent needs to be cabable of.
- Target Working Directory
  - Leave at %dds_default_directory%
- Target User
  - Leave at %dds_default_user% if you don’t know how to use it.

- File List
  - Mandatory
  - The Input File List in SigListXML or comma-seperated Format
    - In “Append with Seperator” Mode, make sure the component is able to access mediainfo binary (or .exe) and the component is able to access the source files.
- Path to PCP File
  - Mandatory
  - Path to a Carbon Project file (.pcp) that was generated using the local Carbon application. This Projectfile the transcode settings that will be submitted to the WFS Job.
  - Look at the end of this manual to obtain deeper information about this.

- Output XML Path and Filename
  - Mandatory
  - Only plain text, no SiglistXML supported
  - The resulting XML File (or better pcp File) that contains the final settings for your Carbon Job.
  - In “**Append with separator Clip**” Mode, the target Clip is automatically splitted after one hour of clips. So you get multiple output xmls from this component. Only the output xml for the first hour of clips has the exact name of this input. The other hours will add a number on the end of your output file name.
- Mode
  - Append
    - Used to obtain a “collection tape” of all inputted Files.
    - The order of Files you Input in SiglistXML or comma-separated is predefined by you, this component does not do sorting or similar.
    - Basically just adds all source clips to the Input Section of the output pcp file and sets “stitch” mode in the “Projectsettings” Part of the pcp file to 1.
  - Append with separator Clip
    - Used to obtain a “collection tape” of your input files but with a “separator” clip between each input clip.
    - **This is the only mode that creates multiple Output PCP Files.**
    - Each hour of clips will be automatically splitted into another output file, so you receive multiple output Files from this mode.
    - The very First clip will always be the separator clip.
    - Keep your separator clip on a shared location and rename it to a speaking name.
    - Path to Mediainfo needed in order to obtain file lenth information.
  - Cut
    - Use segment list and fps list to cut the input files.
    - See bottom of this help file to obtain more information about this mode.

- UNC Path to Separator Clip
  - Only needed for “append with separator Clip” mode
  - Only plain text Input, no SiglistXML supported
- Segment List
  - Mandatory for Cut Mode only
  - See bottom of this help file “Cut Mode”
- FPS List
  - Mandtory for Cut Mode only
  - See bottom of this help file “Cut Mode”
- Path to mediainfo
  - Mandatory for “**Append with Separator Clip**” only
  - Full path to a mediainfo executeable e.g. /usr/bin/mediainfo or c:\extension\mediainfoCLI.exe
  - Take care of not having any special characters or spaces within this path.
  - Please place mediainfo binary or .exe on a shared location e.g. /mount/shared/mediainfoCLI/mediainfo or \\netapp1\sharename\mediainfo.exe .
  - MediaInfo is used to determine the lenth of each input clip in order to be able to create multiple output pcp Files for each hour of input clips.

Outputs



- Output xml Path and Filename
  - Obsolete, use CarbonXMLFileList instead
- Return Code
  - Not utilized
- Return Message
  - Not utilized
- XMLFiles Count
  - Only use in “Append with separator” Mode to check in your workflow how much “hours” were generated.
- HTML Output List
  - Only use in “Append with separator” Mode, it will contain a HTML Formatted list of Input File to Hour Mapping. Used to send Emails containing the Clip to Hour mapping.
- CarbonXML Filelist
  - The List of output Files
  - Only in “Append with separator” this will contain more than one output.
  - In all other modes this will be the same like the Input “Output XML Path and Filename, but it is always “SiglistXML” format.
  - **USE THIS OUTPUT IN YOUR SIGNIANT WORKFLOW FOR MAPPING INTO THE WFS COMPONENT “Input Files” INPUT.**

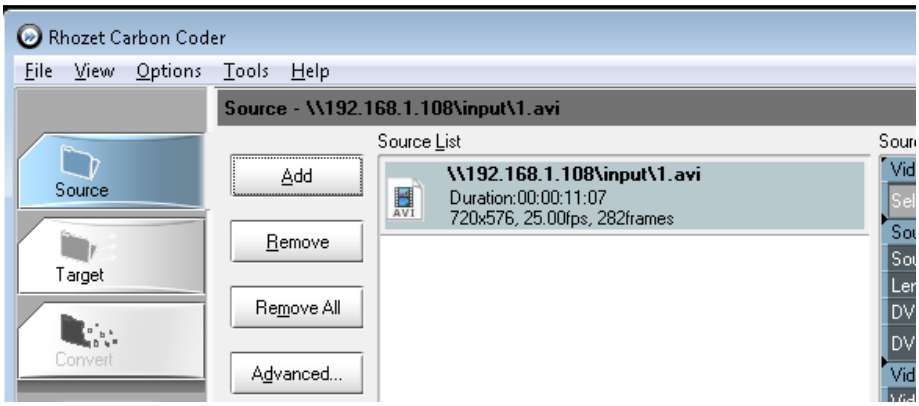
“Path to PCP File” Input

The concept of this whole component is to create a full Carbon Job XML exactly like the local Carbon Coder Application would do if you save the project there. In order to do this, the component does not only need information about the Input Files that you are going to transcode but also it needs to have a “template” pcp File.

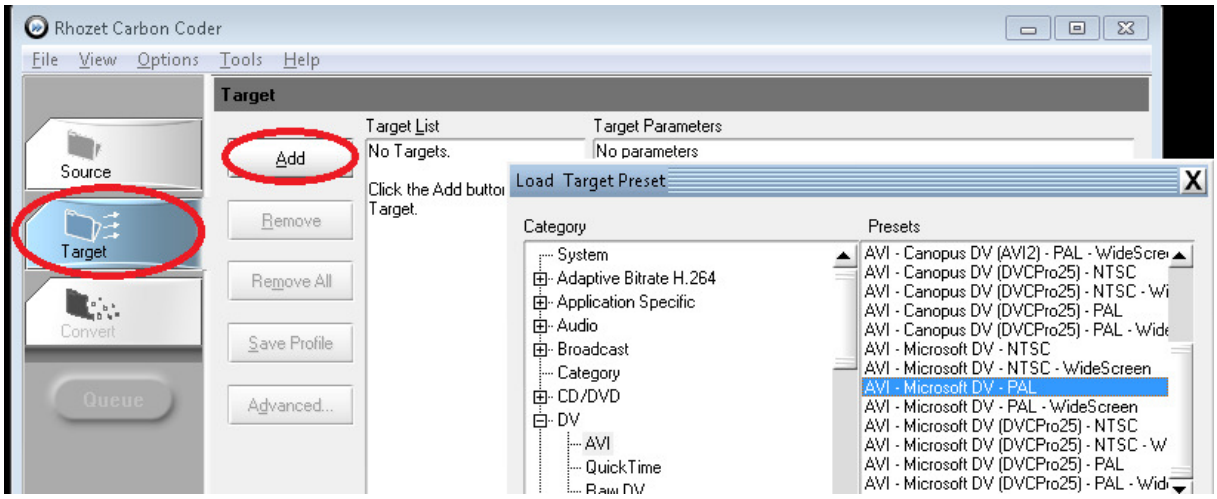
How to create the needed pcp File:

1. Open the local Carbon Application:

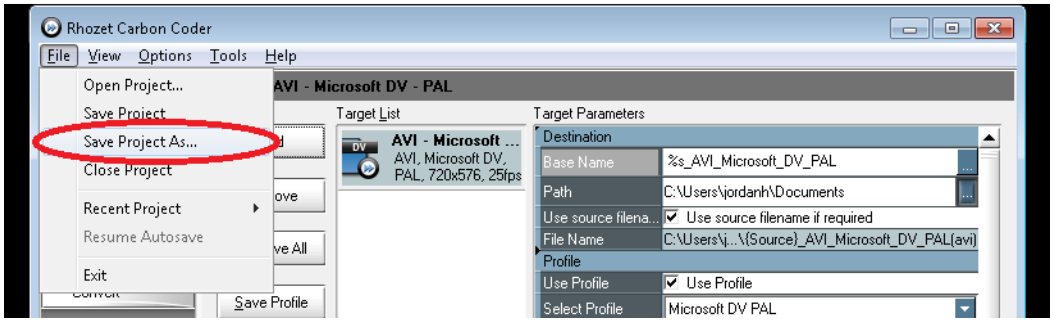
2. Add ANY Source File that Carbon understands. It does not matter which Source File exactly you take as the “source part” of the pcp file will be completely replaced by this component (everything within the <Sources> tag is replaced)



3. Add the Output(s) that you want to generate. This part will not be altered by the component. Make sure that all GUIDs u use here are registered at the WFS too.



4. Save the Project (pcp) File on some shared place



5. The plain text path to the File you just generated is used as input “Path to PCP File”
    a. E.g. \\netapp\share\XDCAMHD.pcp

6. Be sure to keep a naming strategy for your pcp files as mostly you will need to have more than one prepared and it is most likely that you will want to use the same pcp file for multiple Signiant Jobs

“Cut” Mode

The “Cut” Mode generates the same Output pcp file that the local Carbon Coder application would generate when you define In and Out Points within the local carbon application.
In our example here, we have 2 input files and want to have only frame 1 of file 1 and frame 2 of file 2, so the output file will only be 2 frames long.
Notice: If you use %s at the WFS Component for the Target Filename, WFS will produce an output File that is named like **{Stitched_Source}.**avi or similar.
It is highly recommended not to use different source Video Formats in this Mode, so basically all Input Files should have the same Format in order to avoid hitting Carbon Bugs.

When using Cut Mode, you need to utilize the following Inputs of this Component:

- **File List**
  - Like mentioned above, the Input File list can be SiglistXML or plain text. This list has to be sorted because of its direct connection to the next 2 inputs:
- **Segment List**
  - For each Input File that is provided, you MUST define a Segment.
  - Segment Format is fixed to IN:OUT in frames, so if you like only the first Frame of the first and only the second frame of the second input file, you would enter this:
    - 0:1,1:2
  - Side Note: When you have some files in your Input List that do NOT need to be cut, but others of the FileList do, there should be a way to tell Carbon to use just the full length of the Input File by using a wildcard. Unfortunately there is no documentation from Rhozet for this and we did not yet backward engineer this. Possibly it is 0:0.
- **FPS List**
  - The integer value of the FPS of your input file. At the moment only full integers are tested for example 10, 15 or 25.
  - As you should only use the same kind of input formats when utilizing this mode, it is highly recommended to just fill up this input with a comma separated list of integers. The number of Integers you use here should be greater than the maximum input Files that you expect on the input.
    - E.g. if you have maximum of 10 input files and all of your Files will have 25 fps, you just input this list:
      - 25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25

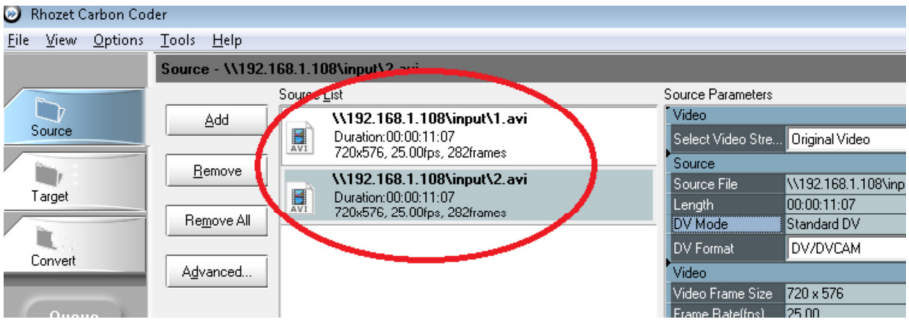
Debugging the Cut Mode:

We decided to pass the generated pcp file from this component to the WFS component in the form of physical files instead of just using direct String mapping because of the possibility to debug its output. You can always utilize ye good old Carbon Application and just “open” the project Files that this component generated to see if the File is a correct Carbon PCP File, or maybe your carbon just does not have access to the source files or similar.

If everything is OK with the generated project file, you should be able to just open the pcp file using the Carbon App, hit convert and it should produce the same Result that your Signiant Workflow would do (make sure you are logged on the Windows Machine as the same user that WFS executes Jobs with).

The following example shows how you could manually produce the same pcp file than this component is intended to do (e.g. for debugging reasons):

- So, we have 2 input files: 1.avi and 2.avi



- When you mark the first input file and press “Advanced”, you can define some EDL, in this example we set the Mark In to Frame 0 and the Mark Out to Frame 1 of file “1.avi”, we do the same for file 2.avi, but only changing Mark In to frame 1 and Mark Out to Frame 2.