

Harmonic (Rhozet) WFS API 1.4

Signiant Component

Pro Version 1.4

About

In difference to the Standard version, this Component is designed to submit simple as well as complex tasks to a WFS. The definition for complex task within Rhozet finds its place at the Rhozet ComplexSource definition document.

Simple Rhozet Task:

- One Input File – One Output File with the same duration as input
- Output can only be manipulated using Rhozet Video or Audio Filters and exporter settings.

Complex Rhozet Task:

- Multiple Input Files – One Output File
- Multiple Complex Input Files (Audio and Video from different Files)

The Component will wait until each job is finished while displaying the progress on Signiant Manager and Mediaexchange Interface. When all jobs are done, a HTML Job Summary containing a list of files that could not be processed on WFS side (including error messages) and all success files will be available.

Other special features of the Pro Version

- WFS HA Support
- WFS Complex Sources (A/V combination etc..)
- Cutting and/or joining multiple Source Files

Inputs

- **Target Agents**
 - Choose an Agent that is able to contact the WFS System on Port 8731.
 - This Agent does not need to have access to the files that are being processed by WFS.

- **Target Working Directory**
 - Local Directory on Target Agent
 - As this does not affect the function of this component, this input should always be %dds_default_directory%

- **Target User**
 - Local user on Target Agent
 - As this does not affect the function of this component, this input should always be %dds_default_user%

- **Source Filelist**
 - Mandatory
 - **In SourceFileIsComplexXML Mode, use the same list of files (carbon project files) that you use for the “WFS API Command” input.**
 - List of files to be processed by WFS in comma separated or SiglistXML Format
 - In SiglistXML format, the Component sorts out any Entries that’s don’t have TYPE attribute “U” (Unknown) or “F” (File) – this is to make sure no directories are submitted when getting input from Signiant Filelist Component.
 - All files have to be available for at least one WFS Node.

- **Job Priority for all Files**
 - Mandatory
 - WFS Job Priority in Number Format: 1-10 where 1 is low

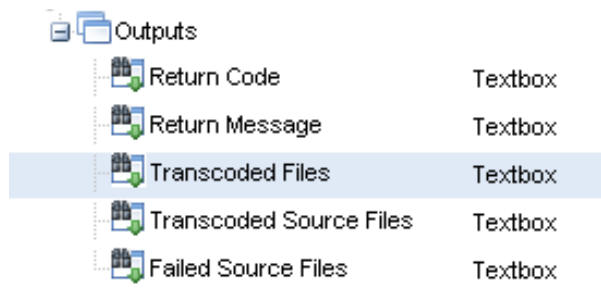
- **Output Folder**
 - Mandatory
 - WFS Output Folder. Overrides Output Folders that are defined in WFS Workflow GUID, WFS Watchfolder GUID or WFS Workflow XML
 - Only in Raw Text format, no SiglistXML supported
 - e.g. Package Path of Signiant MediaExchange PackageQuery Component

- **WFS API Command Mode**
 - Mandatory
 - Watchfolder GUID
 - Export a Watchfolder of the WFS and edit the exported File (Settings.xml) to obtain the GUID for a Watchfolder.

- This mode is great if you need to include settings that cannot be set using a Workflow GUID, for Example the Default Scaling behavior (Stretch or Crop). Some settings in WFS can only be set using Project File or Watchfolder GUID.
- Workflow GUID
 - Edit a Workflow within the WFS Manager Software to obtain Workflow GUID.
 - Output Path will be overwritten by the “Output Folder” input of this Component.
- Workflow XML
 - You will need to build a Signiant Component on your own that delivers a flexible Workflow XML String in order to make use of this input.
 - ATTENTION: You cannot just copy a Workflow XML String and put it into this Components Input: “WFS API Command”, the XML Format of the Workflow will destroy the function of the component because Signiant in the background parses the Component XML and the Workflow XML disturbs this process.
- Carbon Project File
 - Obsolete, use SourceFilesComplexXML
- Carbon Project XML
 - In this mode, you need to submit a XML String to the “WFS API Command” Input, that contains a whole Carbon Job exactly like you would create and export it within the good old local Carbon Application.
 - Source Files and Output Folder within your Carbon Project will be automatically replaced by the Source File you passed as File List Input to this Component.
 - You can use this mode to submit special Input Format Settings to the Carbon Job like the Quicktime Color Space of a mov Source File for example (any setting besides the source File Name will be kept as it was within the original submitted Project XML).
- Legacy pcp String submission
 - The pcp input string that you input as “WFS API Job XML or GUID” is directly submitted to WFS, without any kind of modification.
 - Special feature of this mode is to keep the Kernelsettings of the pcp file. This is the only mode that allows this.
 - Any non-Carbon but WFS related feature cannot be used in this mode. Especially Target Job Name and Machine Group can not be used
- **WFS API Job XML or GUID**
 - Mandatory
 - Existing WFS Workflow or Watchfolder GUID or Workflow XML and more
 - Look at WFS API Command Mode to know what to Input here
 - Guid format is only valid if it starts with 8 characters followed by a - (minus) e.g.
 - c9f65e12-8e23-4b38-8786-e076d1e6e7eb

- WFS Controller Address
 - Mandatory
 - IP address or DNS Names of WFS Controller
 - The WFS default API Port 8731 is hardcoded and can only be changed within the Target Command Script
 - Use comma-separated list of Controller Names or IP Address for HA Mode
 - E.g. for three WFS Controllers:
 - 10.128.1.10,10.128.1.11,10.128.1.12
 - Be sure not to have any unwanted character like space before or after the hostname or IP

Outputs

A screenshot of a file explorer window titled 'Outputs'. It shows a folder containing five files, each with a document icon and a green checkmark. The files are: 'Return Code', 'Return Message', 'Transcoded Files', 'Transcoded Source Files', and 'Failed Source Files'. To the right of each file name is the word 'Textbox'. The 'Transcoded Files' row is highlighted with a light blue background.

File Name	Type
Return Code	Textbox
Return Message	Textbox
Transcoded Files	Textbox
Transcoded Source Files	Textbox
Failed Source Files	Textbox

- Return Code
 - Standard Signiant Output, not used by WFS specific part
- Return Message
 - Workflow Summary in HTML Format, contains Error Messages of WFS (if any)
- Transcoded Files
 - SiglistXML of all Files that were produced
- Transcoded Source Files
 - SiglistXML of all Source Files where all WFS Tasks were Successful
- Failed Source Files
 - SiglistXML of all Source Files where any WFS Tasks Failed

Error Conditions

- Any SOAP Error
 - SOAP Errors will occur on connection Problems and wrong or defective SOAP Commands.
 - E.g. WFS is offline or XML Characters in Filenames (<>&) or Workflow GUID not Found ...
 - All Target WFS Controllers are offline
- Any Input Error
 - E.g. Empty Filelist, wrong GUID Format, no WFS Host IP or Name ...

General WFS Admin and Signiant Workflow advise

WFS

- Make sure that all GUID`s used within Signiant Workflows are available on WFS Controllers in any case.
- Have a WFS Disaster Recovery Concept that allows you to quickly restore all needed Watchfolders, Workflows and Profiles with their GUID`s.
- Have your WFS Admin with you when trying to use this Component the first time.

Signiant

- The Signiant Agent you are running this component on does not have to access the Target Files. This means it must not be able to see the path, nor to know about the username that WFS uses for file access.
- Make sure you know about the username and path the WFS will try to access the files.
- It is best to add handling of non-transcoded Source Files within your Signiant Workflow after the WFS Component.
- Whenever possible, you should design "One File only" Signiant WFS Workflows. This saves a lot of time as it is easier to get Statistics debugging informations.
- When developing new Workflow or trying new WFS Workflows within an existing Signiant Workflow, make sure you have access to the WFS Console. Sameapplies for debugging.
- Within your Signiant Workflow, make sure you only submit lists of files to the WFS Component that do have to be transcoded.
 - For example: Have some QC tool or Mediainfo within the Signiant Workflow to check what files of the Filelist are real mediafiles.

- Another example: Let the Signiant Filelist Component search for *.mpg and connect its Output Filelist to the WFS Components Input Filelist.

While debugging or reading Logs, always remember where you are. Take care of pathmapping when running this component on Linux Agents, Linux does not see Files over the same URI than windows will do. For example, a SAN Mount on linux is “/Files” and on your WFS it is seen as “E:\”. In that case you have to use the Signiant Pathmapping component on the Input Filelist of WFS Component ...

On any Transcoding Errors it is best practice to copy the path of the file out of the Signiant log and paste it at the source file definition on a WFS Node within the CarbonCoder Application. If you are logged on with the same user than WFS tries to access the files, you will then be able to see if the WFS Node is able to access this path.

The next step for troubleshooting is to test if the local Carbon Application is able to do what you wanted to do in your Signiant workflow.