

# Harmonic (Rhozet) WFS API v1.6

## Signiant Component

### Standard Version 6.0

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## About

This Component is designed as a functional replacement for the legacy Signiant „CarbonCoder” Component. The Standard Version of this Component is able to create a Job on the Harmonic Workflow Controller for each input File in the Source Filelist.

The Component will wait until each job is finished while displaying the overall progress on Signiant Manager and/or Mediaexchange Interface. When all jobs are done, a Job Summary containing a list of Files that could not be processed on WFS Side can be found within the Signiant Job log.

There is also a **Pro Version** of the WFS Component that delivers a deeper integration of WFS into the Signiant Manager and Mediaexchange Interface. Please Contact a Signiant representative for more information.

#### Features of the **Pro Version**:

- WFS HA Support
- WFS Complex Sources (A/V combination etc..)
- Cutting and/or joining multiple Source Files
- Control Target Job Name as it is displayed in WFS (easily find from WFS to the corresponding Signiant Job and Vice Versa)
- Transcoding Preview Image within Signiant Manager and MX

# Inputs

Input	Type	Value
Target Agents	Agent	*
Target Working Directory	FileDirectory	%dds_default_directory%
Target User	Textbox	%dds_default_user%
Source Filelist	Textbox	c:\testmp4.mp4
Job Priority for all Files	PickList	5
Output Folder	Textbox	c:\
WFS API Command Mode	PickList	Workflow GUID
WFS API Job XML or G...	Textbox	ec38b1f9-4445-4760-9...
WFS Controller Address	Textbox	192.168.1.108
Throw Error If	PickList	1 or more Tasks Failed
Debug Mode	PickList	0
Report Progress or enabl...	PickList	Enable script kill on can...

- **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**
  - 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**
  - WFS Job Priority in Number Format: 1-10 where 1 is low

- **Output Folder**

- 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**

- Depending on the way of how WFS is administrated and what WFS features you need to utilize, you need to choose of the following options:

**Standard Version:**

- Watchfolder GUID
- Workflow GUID
- Workflow XML (by String)
  - You will need to create your own components when making use of this option.
  - This enables you to dynamically create the WFS Workflow.

**Pro Version:**

- All options above
- Carbon Project File (.pcp) (for use with WFS EDL Component, delivered with Pro Version)
- Carbon Project Xml (string)
- Carbon Complex XML
- Project XML as-is
- Guid format accepted:
  - c9f65e12-8e23-4b38-8786-e076d1e6e7eb
  - { c9f65e12-8e23-4b38-8786-e076d1e6e7eb }
- **WFS API Job XML or GUID**
  - Depending of the WFS API Command Mode, you have to provide a GUID or XML string.
- **WFS Controller Address**
  - IP address or DNS Name of WFS Controller
    - The WFS default API Port 8731 is hardcoded and can only be changed within the Target Command Script.
- **Throw Error if**
  - 1 or more transcodings failed
  - Only on soap errors
- **Report Progress or enable Script kill**
  - Report progress will make the signiant manager reflect the transcode process progress in the progress bar of the job
  - Enable Script kill will not report the progress (only in the status message, not in the progress abr), but in exchange the perl script can be killed (but not the WFS job).
  - This is a signiant limitation

# Outputs

Outputs	
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

- From Version 2, you can specify if you want to be able to cancel the script (but not the WFS Job), or report progress back to the manager so the progress bar shows the transcode process. Both at the same time is not possible due to a signiant limitation
- 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 ...
    - Target Job contains more than one Targets (one job cannot produce a mxf and a mpg product)
- Any Input Error
  - E.g. Empty Filelist, wrong GUID Format, no WFS Host IP or Name ...
- 1 or more file failed (user option added)

# 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 develop "One File only" Signiant WFS Workflows. This saves a lot of time as it is easier to get Statistics and do debugging.
- When developing new Workflow or trying new WFS Workflows within an existing Signiant Workflow, make sure you have access to the WFS Console. Same applies 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 on which server the script was executed. 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 es 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 on a WFS Node within the local CarbonCoder Application as Source File. You will then see, if the WFS Node is able to access this path. Take care you are logged in to the Carbon Node with same credentials the WFS Service uses for submitting jobs.

## Change list:

- Report Progress or enable script kill ability
- Ability to choose options for throwing errors
- Better special character handling in file names
- Active Status message changed from “waiting” to the progress in percent
- New default Agent \* (=the manager)