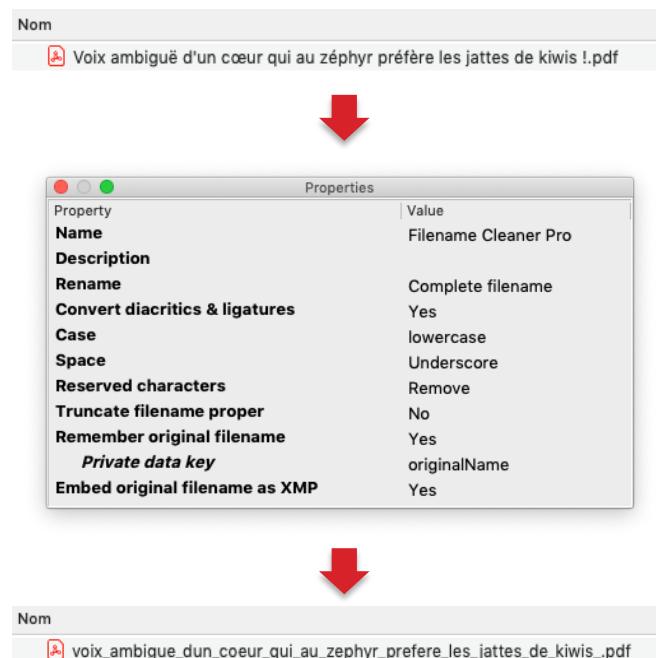# FILENAME CLEANER PRO

Filename Cleaner Pro

Description

Filename Cleaner Pro offers string manipulations to change case, replace unwanted characters (such as space, diacritics[1], ligatures[2] or reserved characters[3]), truncate filenames. This allows making filenames suitable for the web, compatible between platforms (for file transfer or archive), or any use case where there is a need of standardizing filenames.

Compatibility

Enfocus Switch 2017 update 2 and higher for Windows and Mac.
Filename Cleaner Pro will work on any Switch configuration, but the Metadata module is required for embedding information (private data and/or XMP).

Connections

This app needs an incoming connection and a single outgoing connection.

Properties detailed info

There are several string manipulations that can be done with Filename Cleaner Pro. They can be combined so that multiple changes can be processed simultaneously. All properties can be ignored, so that you can build your own configuration for the renaming process.

Note: modifications are applied in the following order (from top to bottom of the app properties): Convert diacritics & ligatures > Case > Space > Reserved characters > Truncate filename proper

Flow elements properties

Property	Values	Comments & examples
Rename	Filename proper Complete filename	Determines which portion of the filename is affected: Filename Proper.pdf Complete filename.pdf
Convert diacritics[1] & ligatures[2]	Yes No	If set to "Yes", diacritics will be converted to their equivalent without alteration. éléphant → elephant Ligatures will also be replaced by their equivalent. œuf → oeuf
Case	Keep lowercase UPPERCASE	If set to "Keep", the case of the filename will not be modified. Set to "lowercase" to convert the filename to lowercase, or "UPPERCASE" to convert the filename to UPPERCASE. (Keep) This is the FileName (lowercase) this is the filename (UPPERCASE) THIS IS THE FILENAME
Space	Keep Remove Dash Underscore	If set to "Keep", space characters will be preserved. Select "Remove" to remove all spaces, "Dash" to replace space characters by a dash (-), or "Underscore to replace space characters by an underscore (_). (Keep) This is the FileName (Remove) ThisistheFileName (Dash) This-is-the-FileName (Underscore) This_is_the_FileName

*in red, default value　　*in red, result

Property	Values	Comments & examples
Reserved characters[3]	Keep Remove Dash Underscore	If set to "Keep", reserved characters will be preserved. Select "Remove" to remove all reserved characters, "Dash" to replace reserved characters by a dash (-), or "Underscore to replace reserved characters by an underscore (_). (Keep) Don't use this! (Remove) Dont use this (Dash) Don-t use this- (Underscore) Don_t use this_
Truncate filename proper	Yes No	If set to yes, the filename proper will be truncated. *Be aware that, whatever has been chosen on the "Rename" setting, the truncation will be processed on the filename proper.*
Keep	Positive or negative number	Enter the number of characters to be kept. Entering a positive value will keep characters from the start of the name, negative from the end. *Note that, if the number entered is greater than the number of characters of the filename proper, the filename proper will not be truncated.* Example for string "Keep some characters": 7 → "Keep so" -6 → "acters"
Remember original filename	Yes No	If set to yes, the original complete filename of the incoming job is stored as private data in the internal job ticket of the job so that it can be used a variable later in the flow.
Private data key	Private data key name (originalName)	Name of the private data key to be stored in the internal job ticket of the job. The default value is originalName
Embed original filename as XMP	Yes No	If set to yes, the original complete filename will be embed as XMP in the file (if the file format allows XMP embedding). This is very useful to be able to retrieve the original name at any time, even outside the current Switch flow. The original filename is embedded in a custom XMP tag, asFCP:originalName This tag can be parsed to retrieve the original filename.
	in red, default value	*in red, result*

Examples of filename conversion
You will find below some examples and use cases where Filename Cleaner Pro is very useful.

Example 1: filename conversion for suitable (and readable) URL
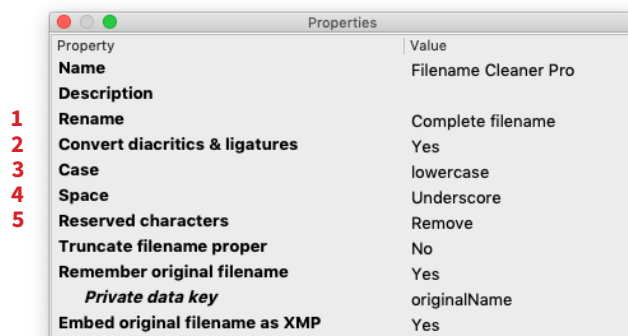Let's explain in detail the example on the first page of this document:
Voix ambiguë d'un cœur qui au zéphyr préfère les jattes de kiwis !.pdf

If you post this file to a webserver to make the file available for download, you might end up with something like this:
Voix%20ambigu%C3%AB%20d%27un%20c%C5%93ur%20qui%20au%20z%C3%A9phyr%20pr%C3%A9f%C3%A8re%20les%20jattes%20de%20kiwis%20%21.pdf

Not very friendly to read!

By cleaning the filename using Filename Cleaner Pro, you will avoid a lot of problems in the URL (between browsers, platforms, etc.)… and make it readable!

This is the process that Filename Cleaner Pro will follow to convert the original filename:

1. Voix ambiguë d'un cœur qui au zéphyr préfère les jattes de kiwis !.pdf
2. Voix ambigue d'un coeur qui au zephyr prefere les jattes de kiwis !.pdf
3. voix ambigue d'un coeur qui au zephyr prefere les jattes de kiwis !.pdf
4. voix_ambigue_d'un_coeur_qui_au_zephyr_prefere_les_jattes_de_kiwis_!.pdf
5. voix_ambigue_dun_coeur_qui_au_zephyr_prefere_les_jattes_de_kiwis_.pdf

Much safer and easier to read ☺

Example 2: filename conversion and truncation for platform-to-platform transfer
In this example, we will convert the diacritics to avoid encoding issues between platforms (Mac & Windows for example) and remove the reserved characters to avoid issues with forbidden characters (e.g. "\" allowed on Mac, but not on Windows).
We will keep the original case and all spaces, as, in this case, this would cause no issue.
We will also apply a truncation of the name, to simulate a system only handling filenames of 32 characters maximum.
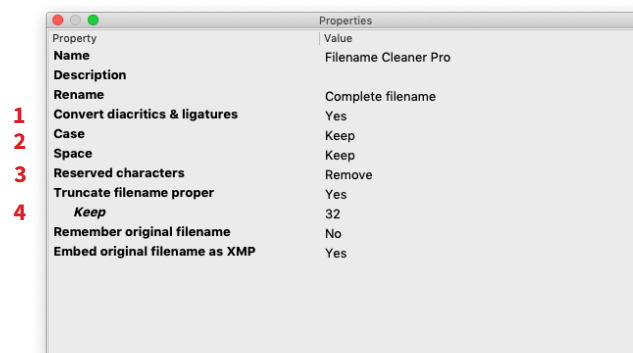
With our example filename:
Voix ambiguë d'un cœur qui au zéphyr préfère les jattes de kiwis !.pdf

… the result will be:
Voix ambigue dun coeur qui au ze.pdf

To get this result, we will configure Filename Cleaner Pro like this:

Property	Value
Name	Filename Cleaner Pro
Description	
Rename	Complete filename
1 Convert diacritics & ligatures	Yes
2 Case	Keep
Space	Keep
3 Reserved characters	Remove
Truncate filename proper	Yes
4 *Keep*	32
Remember original filename	No
Embed original filename as XMP	Yes

This is the process that Filename Cleaner Pro will follow to convert the original filename:

1. Voix ambiguë d'un cœur qui au zéphyr préfère les jattes de kiwis !.pdf
2. Voix ambigue d'un coeur qui au zephyr prefere les jattes de kiwis !.pdf
3. Voix ambigue dun coeur qui au zephyr prefere les jattes de kiwis .pdf
4. Voix ambigue dun coeur qui au ze.pdf

Note 1: *Keep in mind that converting ligatures (and some diacritics) will increase the number of characters (œ → oe). This is the reason why the truncation is done at the end of the process to avoid getting a wrong number of requested characters.*

Note 2: *Remember that, with the setting above, you always will be able to retrieve the original filename, by parsing the file's XMP structure (allowing you to rename the file back to its original name) — see example 4 below.*

Example 3: parsing private data to retrieve original filename

If the original filename has been added as private data, it can be retrieved later in the current flow, as shown below:
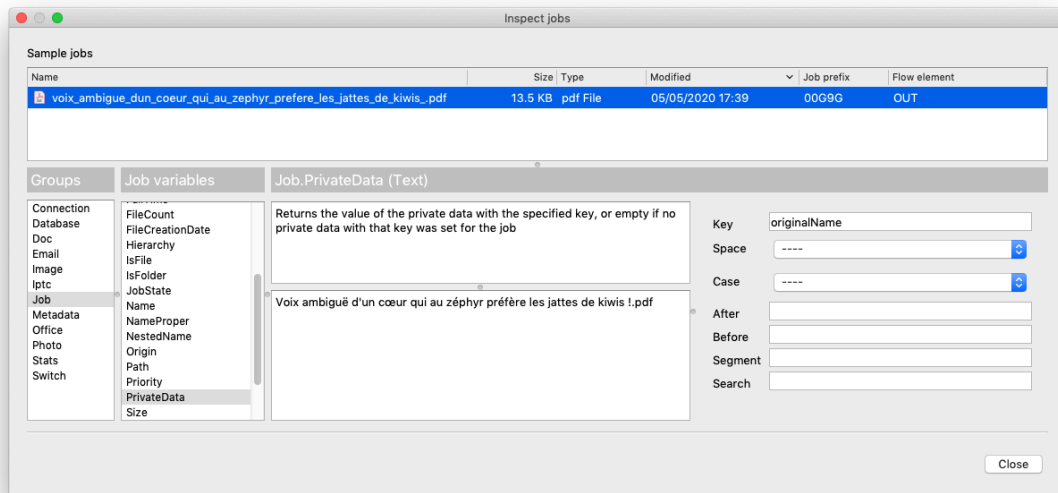

Fig.1 Retrieve original filename using private data

Example 4: parsing XMP to retrieve original filename

If the original filename has been added as custom XMP, it can be retrieved at any time, with any tool able to parse XMP, such as Enfocus Switch.
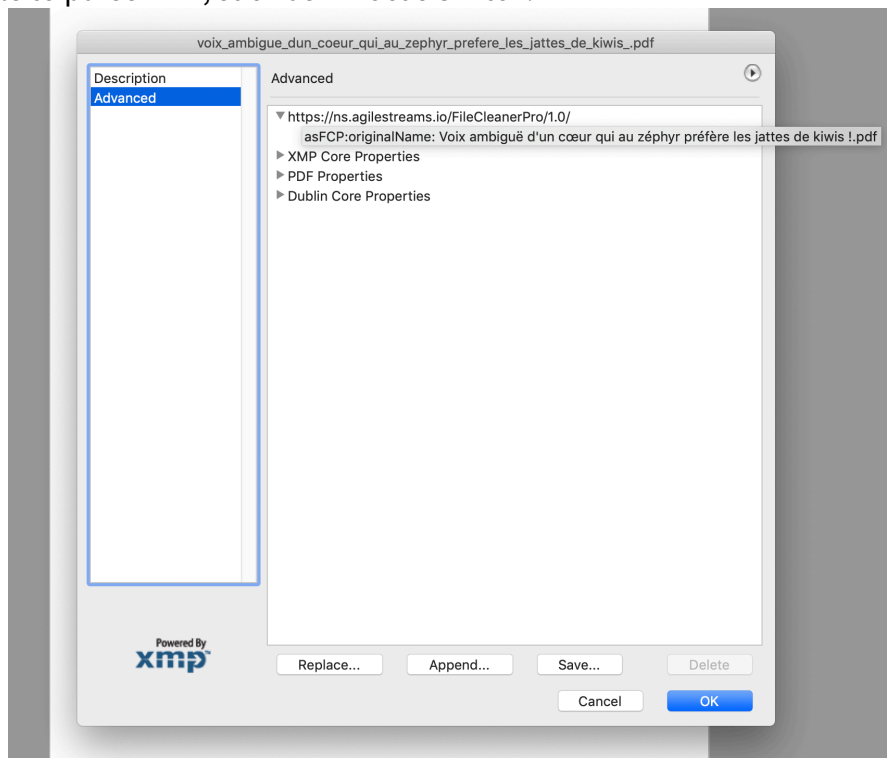

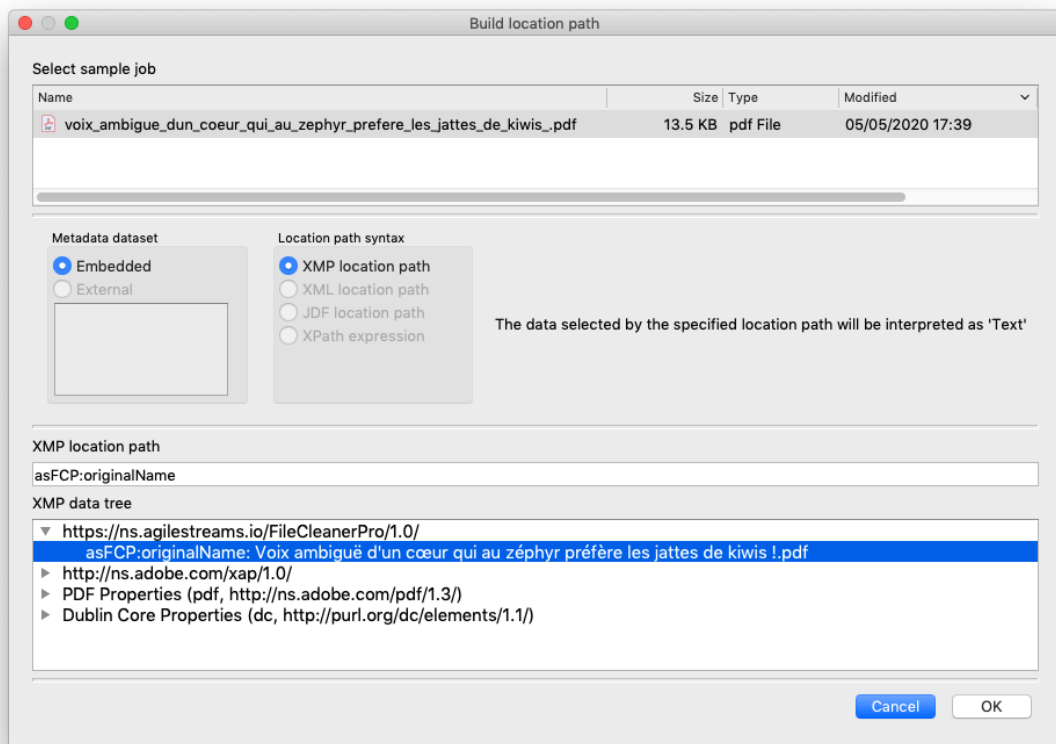Fig.2 Original filename embedded as custom XMP in a PDF file

Fig.3 Retrieve original filename using XMP parser in Enfocus Switch (build location path)
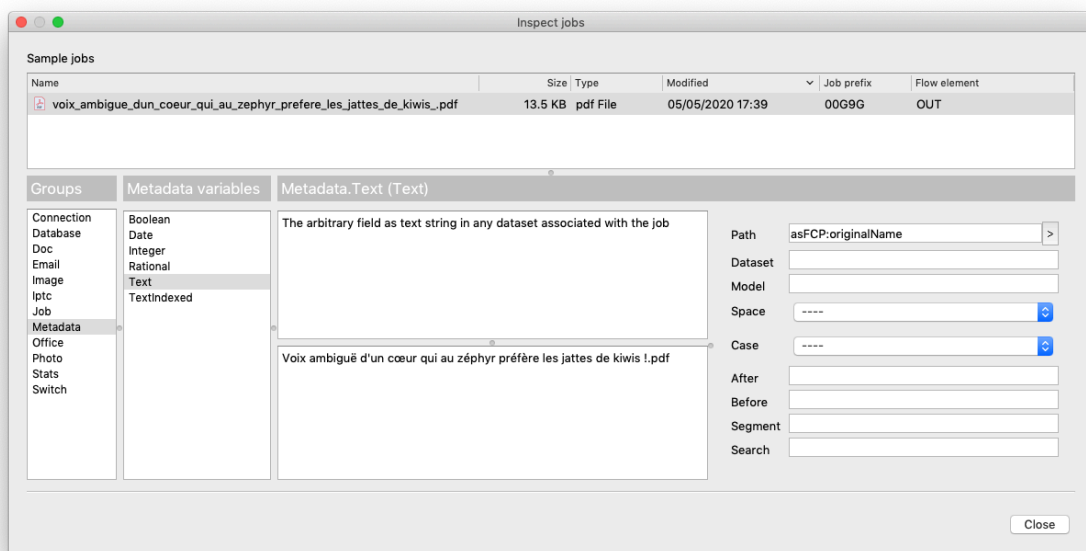

Fig.4 Retrieve original filename using XMP parser in Enfocus Switch (result)

User feedback
If you find any missing or wrongly converted diacritic or reserved character, have any idea of new features for this app, or find a bug, please send an email to apps@agilestreams.io

Filename Cleaner Pro is currently available in English and French. Please get in touch with us if you would like the app to be available in other languages. Help accepted!

Version history
May 2020
V1.0: original release

Glossary

[1] diacritic
a glyph added to a letter that somehow alters its pronunciation and which appears above, below, within or between letters — French uses five diacritics: the grave, acute, and circumflex accents, as well as the cedilla and dieresis.

[2] ligature
a link between two printed letters

[3] reserved character
a character that is not allowed and/or not safe for web or OS filenames.
Currently, the reserved characters captured by Filename Cleaner Pro are :

,	;	:	.	!	?	*	#	@	%	=	+	'	'	"	`	^	~	&	$	<	>	[	]	{	}	|	\	/