enfocus
PITSTOP
SERVER 2021

Command Line Interface

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1. Introduction

1.1. Short summary

This document specifies a command line interface for PitStop Server, shipped as part of the standard product.

Compared to the standard product, the CLI version provides some extra functionality: in addition to file processing, it allows you to render the pages of a PDF to images, either as a whole or split into separations. This functionality is not yet available in the standard product.

1.2. Objectives

1.2.1. Target group

System integrators (including sophisticated end-users) form the main target group for the PitStop Server Command line interface (CLI).

Integrators often want to use PitStop technology in a convenient way without using the C programming language. They may lack the C programming skills or they may need to invoke PitStop from a scripted environment.

1.2.2. Ease of use

The CLI is identical on all supported platforms. Options are specified as command-line arguments and in a configuration file passed to the command line. Advanced options can be omitted. Simple processing can even be achieved without a configuration file.

From version 12 Update 2 onwards, if PitStop Server is running while processing files through the CLI, the PitStop Server user interface can be used to check the CLI jobs. Just like for the regular hot folder jobs, you can for example:

- Check which files are being processed (in the Hot folder tab) or have been processed earlier (in the History tab)
- Follow up on the job progress (in the Progress folder tab)
- Generate statistics (via the Statistics button in the History tab)
- ...

Note: The PDF2Image functionality is only available in the CLI version, hence cannot be monitored through the standard PitStop Server user interface.

1.2.3. Distribution

The CLI is implemented as an independent executable, which is part of PitStop Server. On Mac the CLI is installed inside the PitStop Server package, on Windows next to all other executables.

The CLI finds its resources without relying on the PATH environment variable or regardless of the working folder from which the CLI is called.

The CLI is only supported in combination with "its" PitStop Server installation. If PitStop Library is replaced or resources are added or removed, there are no guarantees on its behavior. Like in the regular PitStop Server product we do not verify that the installation is unmodified and we try to give reasonable error messages if something goes wrong, but most error messages will be cryptic and sometimes the system could even crash.

The CLI knows where to find PitStop Library and its resources.

1.2.4. Multiple invocations

Multiple invocations of the CLI can execute concurrently. Each invocation creates a unique temporary location for PitStop Library and removes the temporary data on exit.

2. The Command Line Interface

The Command Line Interface is the same on all platforms.

2.1. Command line options

2.1.1. Syntax

The arguments on the command line are of the form:

–key [value]

with following restrictions:

- Keys are case-insensitive.
- Values that contain spaces are enclosed in double quotes (") on Windows. On Mac there are 3 conventions: enclose in double quotes or single quotes ('), or precede the space with a backslash (\<space>). All three conventions are supported.
- Paths are in platform syntax (Posix notation on Mac) and either absolute or relative to the current working directory.

Example

Windows:

- "C:\Program Files\Enfocus\Enfocus PitStop Server 21\PitStopServerCLI.exe" -input "C:\Program Files\Enfocus\Enfocus PitStop Server 21\Help\Enfocus PitStop Server CLI (enUS).pdf" -mutator "C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\Action Lists\Add\Add Penguin.eal" -output "C:\output.pdf" -reportPDF "C:\report.pdf"

Mac:

- "/Applications/Enfocus/Enfocus PitStop Server 21/PitStopServerCLI" -input "/Applications/Enfocus/Enfocus PitStop Server 21/Help/Enfocus PitStop Server CLI (enUS).pdf" -mutator "/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/Action Lists/Add/Add Penguin.eal" -output ~/Desktop/output.pdf -reportPDF ~/Desktop/report.pdf

For more information about the command line options, refer to *Overview* on page 7.

Note: Example configuration files can be found at the end of this document (*Example Configurations* on page 55).

2.1.2. Overview

PitStopServerCLI

[–config <file path to a configuration file>]

[-input <file path to an input file>]

[-mutator <file path to a Preflight Profile or an Action List>]

[–reportPDFTmpl <file path to a Report Template (incl. filename with extension .prefs)>]

[-output <file path to an output location (incl. filename)>]

[-reportPDF <file path to a report location (incl. filename)>]

[-reportXML <file path to a report location (incl. filename)>]

[-outputImage <filename or full path to an output location for the output images>]

[-imageType <output file type: jpeg or png>]

[-taskReport <file path to a task report file (incl. filename)>]

[-version]

[-libraryVersion]

[-help]

None of these options is required (but at least one option has to be provided).

The order in which options are specified is irrelevant (with a minor exception for *admin* options).

2.1.3. Configuration

Key name	Value type	Description
config	Path (in)	Location and name of a configuration XML file with settings to configure PitStop Server CLI tasks. The format of the configuration file is described in a separate chapter. See *Configuration XML file* on page 13.

The configuration file is an XML file describing the task(s) to be executed with detailed settings. If no configuration file is specified, defaults* are used for all settings. In that case, at least the input option should be specified along with the mutator, output and/or report options (or nothing meaningful will happen).

* The CLI uses the same defaults as a clean installation of PitStop Server, and is not dependent on any PitStop Server preferences. For example, if no configuration file is specified, the default PitStop Server color management settings will be used.

2.1.4. Process and ExportImage options

These options specify the input and output paths used by the CLI for processing a PDF file or for rendering it to images. Any pre-existing file at an output location is overwritten.

If a configuration file is specified that contains one or more Process and/or ExportImage elements, a value on the command line (for one of the above options) overrides the corresponding value in the first Process or ExportImage element. In other words, the value in the configuration file is ignored.

This rule applies to each value individually. For example, specifying an input file on the command line does not affect the mutator(s) specified in the Process or ExportImage element. However, a mutator specified on the command line does override all mutators specified in the first Process or ExportImage element.

Any subsequent Process/ExportImage elements (other than the first one) in the configuration file are not affected by the command line options.

Key name	Value type	Description
input	Path (in)	Location and name of the input PDF file
mutator	Path (in)	Location and name of a file containing a Preflight Profile or an Action List
output	Path (out)	Location and name for the output PDF file It is acceptable for this to be the same path as the input path (i.e. a file can be processed "in place")
reportPDF	Path (out)	Location and name for the PDF report file (regular or annotated report)
reportPDFTmpl	Path (in)	Location and name of the report template for creating the report **Note:** The report template is a file with extension *.prefs*. For more information, refer to the *PitStop Custom Report Templates guide* on the Enfocus web site. This value is ignored if no reportPDF path is specified
reportXML	Path (out)	Location and name for the XML report file
outputImage	Path (out)	Path to an image file.
imageType	Path (out)	File type of the output image (JPEG or PNG).

2.1.5. Task report

Key name	Value type	Description
taskReport	Path (out)	Location and name of a task report XML file, with information on the tasks executed by the CLI Any pre-existing file at the location is overwritten. The format of the task report file is described in a separate chapter. See *Task Report XML file* on page 45.

If a configuration file is specified that contains a TaskReport element, the value for the taskReport option on the command line overrides the TaskReportPath value in the TaskReport element. In other words, the value in the configuration file is ignored.

2.1.6. Admin

Key name	Value	Description
version	none	Write the CLI version to stdout
libraryVersion	none	Write the PitStop Library version to stdout
help	none	Write an English summary of the command line options to stdout (see *Overview* on page 7)

These options cause low-ASCII text to be written to stdout. The version and libaryVersion options produce a single line that can be easily interpreted by another application (in addition to being readable for humans).

If an admin option is specified, all non-admin options are ignored. If multiple admin options are specified, they are processed in order of occurrence on the command line.

2.1.7. Use cases

Options may be meaningfully combined as follows:

Options specified	Description	Use case
A single admin option	Produce output on stdout	Verify version number Get help on options
Just input/output options (no config file)	Use default settings for simple processing	Produce a Preflight Report for a PDF file Run an Action List on a PDF file
Just the config option	All settings are specified in the configuration file, including input and output paths	An automated system generates a configuration file with specific settings for every job
The config option plus input/output options	Most settings are in the configuration file, and some input/output paths are overruled on the command line	The configuration file is created once (perhaps by hand); it serves as a fixed template for all jobs

2.2. Exit behavior

2.2.1. Exit code

The exit code of the CLI is zero when the task is successful and non-zero when there is a fatal problem (see *Error codes* on page 11).

Note that Preflight errors or warnings do not cause the CLI to return a non-zero exit code; these issues are listed in the Preflight Report or in the CLI's task report.

2.2.2. Error message

If the CLI exits with a nonzero exit code, it writes an appropriate error message to stderr with the following characteristics:

- It starts with a decimal representation of an error code (see *Error codes* on page 11), followed by a colon, and followed by a human-readable message describing the problem in as much detail as possible.
- It is in English (enUS) and uses UTF-8 encoding (so that filenames can always be interpreted correctly).
- It is on a single line and it is the last nonempty line written to stderr.

2.2.3. Error codes

Exit code Windows	Exit code Mac	Description	Error code written to stderr
0	0	Successful operation	Not applicable
-1	255	Problem with command line arguments or configuration file settings detected by the CLI	Error code specific to the CLI These error codes are chosen so that they don't clash with those of PitStop Library
-2	254	Unexpected error returned by PitStop Library	PitStop Library error code

2.3. Default values

The default value for each setting is discussed in the chapter on the configuration file (See *Configuration XML file* on page 13).

2.3.1. General rule

As a general rule, the default value for PitStop Server CLI settings is the default value used by PitStop Server after a clean installation. The CLI does not rely on the PitStop Server preferences. For example the default temporary location is the operating system default (temp folder for the current user) even if the PitStop Server preferences are set to use a specific folder.

However, if jobs are processed through the running instance of PitStop Server, some settings, such as the temp folder, are used for the parts of the job that are done by PitStop Server.

2.3.2. System fonts

By default PitStop Server CLI loads all system fonts before processing a PDF file. Depending on the number of available fonts, this may consume substantial processing time and resources.

In situations where the system fonts aren't used, one should use the appropriate setting in the configuration file to avoid loading them.

3. Configuration XML file

3.1. Introduction

The configuration file provides detailed instructions and settings for the command line tool. It is constructed as a tree of XML elements. The remaining sections in this chapter describe each element that may appear in the file and its immediate child elements.

3.1.1. Ordering of XML elements

The elements in the configuration file must be ordered to allow single-pass parsing. In other words, all information necessary to execute a certain task must be presented before the command requesting the task.

The description for each element specifies the ordering requirements for its immediate children, if there are any such requirements. The tables always list elements in a "safe" order; in other words ordering elements as presented in the tables never violates the ordering requirements.

3.1.2. Unicode support

The configuration file is a well-formed XML document, which means that it fully supports Unicode for text values such as filenames. If the text encoding specified in the XML header is not understood, the job fails.

3.1.3. XML namespace and schema

XML namespace	http://www.enfocus.com/PitStop/21/PitStopServerCLI_Configuration.xsd
Preferred prefix	cf (or use default namespace)
Schema definition	PitStopServerCLI_Configuration.xsd

3.1.4. PathType

This is a string type representing a file or folder path. Both absolute and relative paths are supported.

An absolute path must be specified in the native platform format, for example:

- On Windows: C:\Preflight\Input\input.pdf

- On Mac: /Volumes/Preflight/Input/input.pdf

A relative path is interpreted relative to the CLI's current working directory and can be specified with forward or backward slashes on all platforms. This allows a configuration file with only relative paths to be platform-independent. For example the following two paths have the same meaning on all platforms:

- Windows style: ..\Input\input.pdf
- Mac style: ../Input/input.pdf

3.2. Configuration

This is the root element of the configuration file. This element's children, if present, must be ordered exactly as presented in the table. Only the Process and ExportImage element may occur more than once and the order in which they are presented may vary.

Element name	Type	Multiplicity	Description
Versioning	*Versioning*	required	The version of this configuration file and the strategy to follow when PitStop Server CLI encounters settings it does not understand.
Initialize	*Initialize*	optional	Initialization settings.
TaskReport	*TaskReport*	optional	Settings for producing a task report. If no task report element is provided, and there is no task report option on the command line, no task report is generated.
Process	*Process*	zero or more	Requests for processing PDF files (e.g. performing Preflight and/or running Action Lists). Certain command line options override settings in the first Process or ExportImage element (or in a virtual default Process or ExportImage element if none is provided). If no Process elements are provided, and there are no process options on the command line, no processing occurs.
ExportImage	*ExportImage*	zero or more	Requests for rendering pages from PDF files to separate images. Certain command line options override settings in the first Process or ExportImage element (or in a virtual default Process or ExportImage element if none is provided).

Element name	Type	Multiplicity	Description
			If no ExportImage elements are provided, and there are no ExportImage options on the command line, no image creation occurs.

3.3. Versioning

This element specifies the version of the XML config file, and how to react to unknown settings.

Element name	Type	Multiplicity	Description
Version	integer	required	The version of this XML configuration file; currently this must be "10".
VersioningStrategy	enumeration	optional	The strategy to follow when an unsupported setting is encountered: • BestEffort (default): ignore setting or substitute a reasonable value • MustHonor: exit with an error code

3.4. Initialize

This element specifies how the CLI should organize itself internally.

Element name	Type	Multiplicity	Description
TempPath	*PathType*	optional	Path to the folder in which all temporary files should be stored. The default temporary location is the operating system default (temp folder for the current user). It is acceptable to specify the same path for multiple concurrent invocations of the CLI.
ProcessingMethod	enumeration	optional	A file can be preflighted in two ways: either by the CLI (internally) or by PitStop Server as a rush job. • If **PreferServer** is selected

Element name	Type	Multiplicity	Description
			• And PitStop Server is running, PitStop Server will process the file. • And PitStop Server is NOT running, the CLI will process the file. • If **EnforceInternal** is selected, the CLI will process the file. • If **EnforceServer** is selected, PitStop Server will process the file. **Note:** This option is only relevant for "Process" jobs; it does not apply to PDF2Image conversion and it has no impact on the querying options in the TaskReport, which are generated internally.
ShutDownServerAtExit	boolean	optional	If present and true, the server will be shut down before the CLI shuts down. This means that all relevant PitStop Server processes will be started and stopped for each processed file.

3.4.1. Other information

The CLI passes the appropriate information to PitStop Library for:

- Product info used in PDF reports
- System info for Certified PDF
- Registration info for Certified PDF

This information can't be changed by the user.

3.5. TaskReport

This element specifies a request to generate a task report, including the settings to define the report's contents. The TaskReportPath element must be placed first; the order of the other children may vary and determines the order in which the responses occur in the task report.

Element name	Type	Multiplicity	Description
TaskReportPath	*PathType*	required	The location and filename where the requested task report should be placed.
LogVersionInfo	boolean	optional	If present and true, the task report contains version information on the PitStop Server CLI and its PitStop Library.
LogSupportInfo	boolean	optional	If present and true, the task report contains information useful for support and debugging purposes. Use this option only when requested by Enfocus technical support.
LogCommandLine	boolean	optional	If present and true, the task report contains a list of the options received (and recognized) on the command line.
LogProcessResults	boolean	optional	If present and true, the task report contains the number of errors, warnings, fixes, signoffs, failures and critical failures for each Process task.
LogExportImageResults	boolean	optional	If present and true, the task report contains a list of the paths of the generated images, the matching page and, if applicable, the separation name.
LogErrors	boolean	optional	If present and true, the task report contains a list of warning and error messages encountered during execution.
QueryLanguages	boolean	optional	If present and true, the task report contains a list of the languages supported by PitStop Server CLI.

Element name	Type	Multiplicity	Description
QueryCMMs	boolean	optional	If present and true, the task report contains a list of CMMs supported by PitStop Server CLI.
QueryDefaultProfileDB	*QueryMutatorDB*	optional	Requests a list of the Preflight Profiles in the default database to be included in the task report.
QueryLocalProfileDB	*QueryMutatorDB*	optional	Requests a list of the Preflight Profiles in the local database to be included in the task report.
QueryDefaultActionDB	*QueryMutatorDB*	optional	Requests a list of the Action Lists in the default database to be included in the task report.
QueryLocalActionDB	*QueryMutatorDB*	optional	Requests a list of the Action Lists in the local database to be included in the task report.
QueryMutatorInfo	*QueryMutatorInfo*	zero or more	Requests information on a mutator, i.e. a Preflight Profile or an Action List, to be included in the task report.

3.5.1. QueryMutatorDB

These elements specify a request for getting a list of mutators in one of the databases managed by PitStop Server (the default and local Preflight Profile and Action Lists databases).

The path of each mutator is always listed. Additional information can be requested by specifying one or more child elements.

Element name	Type	Multiplicity	Description
MutatorInfoOptions	enumeration	zero or more	The type of information requested; one of: • Name: the name of the mutator • Company: the company of the author of the mutator • Author: the author of the mutator • Description: the description of the mutator • MutatorType: the type of mutator (Preflight Profile or Action List) • DateTime: the most recent modification date and time of the mutator • Version: the version of the mutator

Element name	Type	Multiplicity	Description
	• IsFullyUnderstood: check if PitStop Server CLI fully supports all settings and instructions in this mutator • IsVersionCorrect: check if the version of the mutator is correct • IsConfigurationCorrect: check if the configuration of the mutator is correct • IsUsableAsRestriction: check if the mutator can be used as restricting Action List		

3.5.2. QueryMutatorInfo

This element specifies a request for getting information on a mutator, i.e. a Preflight Profile or an Action List.

Element name	Type	Multiplicity	Description
MutatorPath	*PathType*	required	The path to the mutator (Preflight Profile or Action List) for which information is being requested
MutatorInfoOptions	enumeration	zero or more	The type of information requested; one of: • Name: the name of the mutator • Company: the company of the author of the mutator • Author: the author of the mutator • Description: the description of the mutator • MutatorType: the type of mutator (Preflight Profile or Action List) • DateTime: the most recent modification date and time of the mutator • Version: the version of the mutator • IsFullyUnderstood: check if PitStop Server CLI fully supports all settings and instructions in this mutator • IsVersionCorrect: check if the version of the mutator is correct • IsConfigurationCorrect: check if the configuration of the mutator is correct • IsUsableAsRestriction: check if the mutator can be used as a restricting Action List

3.6. Process

This element specifies a request for processing a PDF file (e.g. performing Preflight or running Action Lists). There can be multiple Process elements.

Element name	Type	Multiplicity	Description
InputPDF	*InputPDF*	optional (*)	Location of the input PDF file (*) is in fact required, but for the first Process element may be specified as a command-line option.
OutputPDF	*OutputPDF*	optional (*)	Location and settings for the output PDF file (*) is in fact required, but for the first Process element may be specified as a command-line option.
Reports	*Reports*	optional	Type and location of reports to be created If no reports are specified here or (for the first Process element) on the command-line, none are generated.
Flattening	*Flattening*	optional	Settings for the flattening. If this setting is not defined, no flattening will be performed.
Mutators	*Mutators*	optional	Location of Preflight Profile or Action List to be used. If no mutators are specified here or (for the first Process element) on the command-line, none are used.
SmartPreflight	*SmartPreflight*	optional	Location of Variable Set and Job Ticket to be used. If no SmartPreflight is defined, preflight is executed without Smart Preflighting.
CertifiedPDF	*CertifiedPDF*	optional	Settings for Certified PDF behavior
ColorManagement	*ColorManagement*	optional	Settings for color management
Fonts	*Fonts*	optional	Settings for font management
Language	enumeration	optional	The language to be used in the Preflight Report as a 4-character

Element name	Type	Multiplicity	Description
			string in the form 'enUS'; 'frFR', 'deDE', ... If the requested language is not available, English (enUS) is used instead. The default language is English (enUS).
MeasurementUnit	enumeration	optional	The measurement unit to be used in the Preflight Report; one of: • Point (the default) • Pica • Inch • Centimeter • Millimeter

3.6.1. InputPDF

This element specifies the location of an input PDF file.

Element name	Type	Multiplicity	Description
InputPath	*PathType*	optional (*)	Path to the input PDF file (*) is in fact required, but for the first Process/ExportImage element may be specified as a command-line option.

3.6.2. OutputPDF

This element specifies the location and save options for the output PDF file.

Element name	Type	Multiplicity	Description
OutputPath	*PathType*	optional (*)	Path for the output PDF file (*) is in fact required, but for the first Process element may be specified as a command-line option.

Element name	Type	Multiplicity	Description
SaveOptions	*SaveOptions*	optional	Save options for the output PDF file.

3.6.2.1. SaveOptions

This element specifies save options for the output PDF file.

Element name	Type	Multiplicity	Description
PerformFullSave	boolean	optional	If true (the default), a full save is performed which means it is no longer possible to roll back Certified PDF sessions. If false, an incremental save is performed.
Optimization	enumeration	optional	Set the optimization option as one of: • Disabled: no optimization is performed. • FileSize: the internal structure is optimized to create the smallest possible PDF file. • WebDownload: the file will be optimized for usage on the web. The default value is “FileSize”.

3.6.3. Reports

This element specifies which reports should be created when processing a PDF file.

Element name	Type	Multiplicity	Description
ReportPDF	*ReportPDF*	zero or more	Settings for creating a PDF report
ReportXML	*ReportXML*	optional	Settings for creating an XML report

3.6.3.1. ReportPDF

This element specifies settings for creating a PDF Report.

Element name	Type	Multiplicity	Description
ReportPath	*PathType*	required	Location and name for the generated Report file.
ReportTemplatePath	*PathType*	optional	Path to a PitStop Preflight Report template; if no template is specified, the regular Enfocus Preflight Report template is used.

3.6.3.2. ReportXML

This element specifies settings for creating an XML Report.

Element name	Type	Multiplicity	Description
ReportPath	*PathType*	required	Location and name for the generated Report file.
Version	Integer	Optional	The version of the XML Report. This can be 1, 2 or 3.
MaxReportedNb ItemsPerCategory	Integer	Optional	The number of reported items per category in the Report is truncated to this value. If set to -1, no truncation is performed.
MaxReportedNb OccurrencesPerItem	Integer	Optional	The number of occurrences per item in the Report is truncated to this value. If set to -1, no truncation is performed.

3.6.4. Flattening

This element specifies which settings are to be used when a document is flattened. If preflighting is enabled by defining at least one Preflight Profile or Action List, flattening is performed before preflighting the PDF. It is possible to do flattening without preflighting. Flattening requires that Color Management is enabled.

Element name	Type	Multiplicity	Description
RasterVectorBalance	integer	zero or one	The raster/vector balance: a value from 0 to 100. This controls the degree of rasterization of complex areas in the document. If set to 100, no areas in the document will get rasterized for performance reasons (although some areas may still be

Element name	Type	Multiplicity	Description
			rasterized for other reasons). The default is 100.
VectorResolution	integer	zero or one	The resolution for rasterizing vectors, text, and gradients. This is a value from 1 to 9600. The default is 1200.
GradientResolution	integer	zero or one	The resolution for gradients and Illustrator mesh objects after rasterization because of flattening. This is a value from 1 to 1200. The default is 300.
ConvertAllText	boolean	zero or one	If present and true, all strokes are converted to filled paths.
ConvertAllStrokes	boolean	zero or one	If present and true, all text is converted to outlines and all type glyph information is discarded.
ClipComplexRegions	boolean	zero or one	If not present or true, this option ensures that the boundaries between vector artwork and rasterized artwork fall along object paths. This option reduces stitching artifacts as a result of a part of an object being rasterized while another part of the object remains in vector form.
PreserveOverprint	boolean	zero or one	If not present or true, overprint is preserved where possible. If this option is disabled all overprint in the document will be simulated by blending the colors of overprinted objects.
BlendingColorspace	*PathType*	zero or one	The attribute "Type" defines which kind of blending color space to use. Type can be • Current (the default): use the current blending color space if present. • None: don't use a blending color space • DeviceGray • DeviceRGB

Element name	Type	Multiplicity	Description
			• DeviceCMYK • ICCProfile: A custom ICC profile The path in the element should point to a valid ICC profile in case "ICCProfile" is chosen, and can be left empty otherwise.
RemoveICCProfiles	boolean	zero or one	If not present or true, the ICC profiles are removed after flattening.
ImageCompression	*ImageCompression*	zero or one	Settings for the post flattening image recompression. If not present, images are not recompressed as part of the flattening.

3.6.4.1. ImageCompression

This element specifies the options to be used when recompressing the images after flattening.

Element name	Type	Multiplicity	Description
Color	enumeration	zero or one	Recompress the color bitmap images with the given compression technique. Valid values are • ZIP4bit • ZIP8bit • JPEGMinimum • JPEGLow • JPEGMedium (the default) • JPEGHigh • JPEGMaximum.
Grayscale	enumeration	zero or one	Recompress the grayscale bitmap images with the given compression technique. Same valid values as for "Color" (see above)
OneBit	enumeration	zero or one	Recompress the one bit bitmap images with the given compression technique. Valid values are • ZIP • CCITTGroup3 (the default) • CCITTGroup4

Element name	Type	Multiplicity	Description
			• RunLength
ASCIIFilter	enumeration	zero or one	The settings for applying an ASCII filter. Valid values are • None (the default) • ASCIIHex • ASCII85

3.6.5. Mutators

This element specifies the mutators that should be used for processing the PDF file. Any number of Action Lists and at most one Preflight Profile can be specified. The Actions Lists are executed in the same order as the XML elements; the Preflight Profile is always executed last.

If a mutator is specified on the command line, any and all mutators listed in the first Process element are ignored.

Element name	Type	Multiplicity	Description
ActionList	*PathType*	zero or more	Path to an Action List file
PreflightProfile	*PathType*	optional	Path to a Preflight Profile file

3.6.6. SmartPreflight

This element specifies the settings that should be used for Smart Preflighting the PDF file. One Variable Set and at most one Job Ticket can be specified. Whether or not the contents of the Job Ticket is used is defined by the Variable Set.

Note: For detailed information about Smart Preflight, please refer to the PitStop Server Reference Guide.

Element name	Type	Multiplicity	Description
VariableSet	*PathType*	required	Path to a Variable Set file
JobTicket	*PathType*	zero or one	Path to a Job Ticket file

3.6.7. CertifiedPDF

This element specifies settings related to Certified PDF processing.

Element name	Type	Multiplicity	Description
CertifiedPDFAction	enumeration	optional	The Certified PDF action; one of: • MakeCertified: always output a Certified PDF file (even if the input is not). • MakeUncertified: remove any Certified PDF information when saving the output file. • KeepStatusUnchanged: incoming Certified PDF documents remain certified; incoming non-Certified PDF documents remain uncertified. If a Preflight Profile is specified for this process, the default is "MakeCertified"; otherwise the default is "KeepStatusUnchanged".
KeepOriginalProfile	boolean	optional	The value of this setting is used only if a Preflight Profile is specified for this process. If true, and the incoming Certified PDF file has an embedded Preflight Profile, that profile is used for performing the preflight step instead of the Preflight Profile specified for this process. If false (default), any embedded Preflight Profile is removed and replaced by the Preflight Profile specified for this process.
UserInfo	*UserInfo*	optional	Information on the user performing this operation; stored in the Certified PDF data.
SessionComment	string	required	Description of the operation being performed; stored in the Certified PDF data.

3.6.7.1. UserInfo

This element specifies information on the user performing this operation. This information is stored in the PDF file as part of the Certified PDF data.

Element name	Type	Multiplicity	Description
Name	string	optional	User name and contact information. Default value is an empty string for all fields.
Company	string	optional	
Street	string	optional	
City	string	optional	
State	string	optional	
Country	string	optional	
PostalCode	string	optional	
Phone	string	optional	
Fax	string	optional	
Email	string	optional	
Message	string	optional	Comments that may help identify the user or otherwise assist in the Certified PDF workflow. Default value is an empty string.

3.6.8. ColorManagement

This element specifies settings related to color management.

Color management can be configured separately for images and all other objects (text, line art), or for all objects (including images) at the same time.

If color management is not turned on for a particular object type, the corresponding source and target ICC profiles are ignored.

Element name	Type	Multiplicity & Description
AllObjects	*ColorManagementSettings*	Only the following combinations are allowed: • Just "AllObjects": specify the same color management options for all objects in the file • Both "Images" and "OtherObjects": specify separate color management options for images and for non-images (text & line-art)
Images		
OtherObjects	*ColorManagementSettings*	

Element name	Type	Multiplicity & Description
		• None of these elements: use the default settings for all objects in the file
CMMEngine	enumeration	The color management engine to be used; one of: • SystemCMM: the platform-specific engine (ICM on Windows, ColorSync on Mac) • AdobeCMM: the Adobe CMM engine, if it is available on the system; if it is not available, PitStop will return an error if the color management engine is required during processing • LittleCMS: the LittleCMS engine built into PitStop The default value is SystemCMM
UseBlackPoint Compensation	boolean	If present and true, Black Point Compensation will be used. Note that this option is only available for the Adobe CMM and the Little CMS engine.

3.6.8.1. ColorManagementSettings

This element specifies color management settings for a particular category of objects.

Element name	Type	Multiplicity	Description
Enabled	boolean	optional	If true (default), color management is enabled. If false, the remaining settings in this list are ignored.
RenderingIntent	enumeration	optional	The output rendering intent; one of: • ObjectDefined (default): the rendering intent of the object itself, as shown on the prepress tab of the PitStop Inspector • Relative: in-gamut colors are reproduced exactly; out-of-gamut colors are mapped to the nearest value within the reproducible gamut; corrections

Element name	Type	Multiplicity	Description
			are made for the output medium's white point. • Absolute: in-gamut colors are reproduced exactly; out-of-gamut colors are mapped to the nearest value within the reproducible gamut; no correction is made for the output medium's white point. • Saturation: colors are represented in a manner that preserves or emphasizes saturation. • Perceptual: colors are represented in a manner that provides a pleasing perceptual appearance.
SourceICCProfiles	*ICCProfiles*	optional (*)	The source ICC profiles (*) Required if color management is enabled
SourceOutputIntentOverridesICCProfiles	boolean	optional	If true, the rendering intent overrides the selected ICC profile rendering intent for the source ICC profiles The default value is false
TargetICCProfiles	*ICCProfiles*	optional	The target ICC profiles. If not provided, the source ICC profiles are used as target ICC profiles as well. **Note:** Target ICC profiles set for non-images are only used for pre-rendering. For example, for color conversions (using a pre-render Action List, as the first step of the processing), you can use different profiles for images and other objects. However, to render the PDF to images, the *target ICC profiles for images* are used for all objects (also

Element name	Type	Multiplicity	Description
			for text and line art) and regardless of the chosen (non-image) target profile for "OtherObjects".
TargetOutputIntentOverridesICCProfiles	boolean	optional	If true, the rendering intent overrides the selected ICC profile rendering intent for the target ICC profiles The default value is false

ICCProfiles

This element specifies the source or target ICC Profiles for a particular category of objects.

Each child element specifies the file path to the default ICC Profile for a particular color space. This ICC Profile is used for color converting an object in this color space unless the PDF file explicitly associates an ICC Profile with the object.

If the ICC Profile for a color space is not provided, the corresponding default Enfocus ICC Profile is used instead.

Element name	Type	Multiplicity	Description
Gray	*PathType*	optional	Path to ICC Profile for Gray color space
RGB	*PathType*	optional	Path to ICC Profile for RGB color space
CMYK	*PathType*	optional	Path to ICC Profile for CMYK color space
Lab	*PathType*	optional	Path to ICC Profile for Lab color space

3.6.9. Fonts

This element specifies settings for loading fonts.

Loading fonts can be quite time-consuming. To optimize performance, turn off system fonts if they are not needed, and limit additional fonts to those actually used in the job being processed.

Element name	Type	Multiplicity	Description
UseSystemFonts	boolean	optional	If true (default), the fonts in the system folder are available for handling fonts during processing.

Element name	Type	Multiplicity	Description
			If false, the fonts in the system folder are not available.
AdditionalFolder	*PathType*	zero or more	Path to a folder containing additional fonts that should be available for handling fonts during processing of this task.
MonotypeBaselinePlatformSecurityToken	string	zero or one	Deprecated
FontLicenseRestrictions	*type_FontLicense*	zero or one	Specifies the compliance with font license restrictions.

3.6.9.1. type_FontLicense

This element specifies your compliance with font license restrictions.

Element name	Type	Multiplicity	Description
AgreeWithFontLicenseRestrictions	boolean	required	If present and true, the PitStop Server CLI will assume you comply with the font license restrictions imposed by any font used in the PDF. Note that you must explicitly confirm that you comply with the font license restrictions in the "IComplyWithTheFontLicenseRestrictions" element.
IComplyWithTheFontLicenseRestrictions	boolean	required	Some fonts may be licensed for View and Print only. By choosing "true", you agree that you have checked the licensing conditions of the print vendor of these fonts and that you are allowed to manipulate these fonts according to this configuration. Enfocus disclaims any liability for any use of the fonts which is not in accordance with the licensing agreement between yourself and the print vendor. Choose "false" if you do not agree.

3.7. ExportImage

This element specifies a request for rendering the contents of a PDF to separate images. There can be multiple ExportImage elements.

Element name	Type	Multiplicity	Description
InputPDF	*InputPDF*	optional (*)	Location of the input PDF file (*) is in fact required, but for the first Process or ExportImage element may be specified as a command-line option.
OutputImages	*OutputImages*	optional (*)	Location and settings for the output images (*) is in fact required, but for the first ExportImage element may be specified as a command-line option.
RenderOptions	*RenderOptions*	optional	The options to be used for rendering the page.
ActionLists	*Action Lists*	optional	This element specifies the Action Lists to be used before rendering, and to define the selection to be rendered.
SmartPreflight	*SmartPreflight*	optional	Location of Variable Set and Job Ticket to be used. If no SmartPreflight is defined, image export is executed without Smart Preflighting.
ColorManagement	*ColorManagement*	optional	Settings for color management
Fonts	*Fonts*	optional	Settings for font management

3.7.1. InputPDF

This element specifies the location of an input PDF file.

Element name	Type	Multiplicity	Description
InputPath	*PathType*	optional (*)	Path to the input PDF file

Element name	Type	Multiplicity	Description
			(*) is in fact required, but for the first Process/ExportImage element may be specified as a command-line option.

3.7.2. OutputImages

This element specifies the location and settings for the output images.

Element name	Type	Multiplicity	Description
OutputPath	*PathType*	optional (*)	Path for the output rendered images. If multiple images are expected, %1 can be included in the filename (e.g.C:\Temp\Images\image%1.png), which will be used to make the filenames unique. If no %1 is included, the CLI will append a unique number if necessary. (*) is in fact required, but for the first ExportImages element may be specified as a command-line option.
SaveOptions	*SaveOptions*	optional	Save options for the output images. The attribute "FileType" is required and defines the file type of the output image. Values can be PNG or JPEG. If the attribute is used in the first ExportImage element, this value can be overridden with a command line parameter.

3.7.2.1. SaveOptions

This element specifies save options for the rendered images. The available child elements depend on the chosen file type.

<cf:SaveFileType = "PNG">

Element name	Type	Multiplicity	Description
Interlaced	boolean	optional	If present and true, an Adam7 interlaced PNG will be generated.

Element name	Type	Multiplicity	Description
EmbeddedICCProfile	boolean	optional	If present and true, the ICC Profile will be embedded in the image file. This option requires that color management is used for images and that RenderType is set to Composite (See *RenderOptions* on page 35).

<cf:SaveFileType = "JPEG">

Element name	Type	Multiplicity	Description
EmbeddedICCProfile	boolean	optional	If present and true, the ICC Profile will be embedded in the image file. This option requires that color management is used for images and that RenderType is set to Composite (See *RenderOptions* on page 35).
Progressive	boolean	optional	If present and true, a progressive JPG will be generated.
CompressionLevel	enumeration	optional	This element specifies the level of compression to be used when saving JPG files. Use one of: • Minimum • Low • Medium (default) • High • Maximum

3.7.3. RenderOptions

This element specifies the options to be used for rendering the page.

Element name	Type	Multiplicity	Description
RenderType	enumeration	optional	Specifies the way the page is to be rendered: • Composite (default): renders the page as a whole

Element name	Type	Multiplicity	Description
			• Separations: renders the various separations as separate images
OutputColorSpace	enumeration	optional	Specifies the output color space to be used: • DeviceGray • DeviceRGB (default) • DeviceCMYK
BackgroundColor	*Color*	optional	Specifies the background color to be used during rendering. If none is specified, the rendered image may contain transparency if the file type supports transparency. If it doesn't, a white background is used. The color space of the background must match the output color space.
RenderArea	enumeration	optional	Specifies which area to be rendered, based on the page box. Values: • MediaBox • CropBox • ArtBox • TrimBox • BleedBox
ImageDimensions	*ImageDimensions*	optional	Specifies the dimensions of the image to be rendered.
IncludeEmptyPages	boolean	optional	Specifies whether or not pages without (selected) content are rendered to images. Values: • False (default): Empty pages and pages that contain no selected content are NOT rendered. • True: Empty pages and pages that contain no selected content are rendered too.

Element name	Type	Multiplicity	Description
AntiAliasing	boolean	optional	Specifies whether or not images will be rendered with anti-aliasing. Values: • False: rendered with anti-aliasing disabled • True (default): rendered with anti-aliasing enabled

3.7.3.1. ImageDimensions

This element specifies the dimensions of the image to be rendered.

Element name	Type	Multiplicity	Description
Resolution	Floating-point number	optional(*)	The resolution to be used when rendering the page (1 or higher). For decimal numbers, use separator "." (*) You should either specify resolution or width and height.
Width	Integer	optional(**)	If this element is present, the resulting image will have the specified width in pixels. (**) You can either specify height or width. Alternatively, you can specify both height and width, but in that case, the aspect ratio is not maintained.
Height	Integer	optional(**)	If this element is present, the resulting image will have the specified height in pixels. (**) You can either specify height or width. Alternatively, you can specify both height and width, but in that case, the aspect ratio is not maintained.

3.7.3.2. Color

This element specifies a color.

Element name	Type	Multiplicity	Description
Gray	Floating-point number	optional	The gray value for grayscale based color. Possible values: • 0 • Any decimal number between 0 and 100, for example 0.2 (use separator ".") • 100 (default)
Red	Integer	optional	The red value for an RGB based color. Possible values: • 0 • Any integer between 0 and 255 • 255 (default)
Green	Integer	optional	The green value for an RGB based color. Possible values: • 0 • Any integer between 0 and 255 • 255 (default)
Blue	Integer	optional	The blue value for an RGB based color. Possible values: • 0 • Any integer between 0 and 255 • 255 (default)
Cyan	Floating-point number	optional	The cyan value for a CMYK based color. Possible values: • 0 (default) • Any decimal number between 0 and 100 (use separator ".") • 100
Magenta	Floating-point number	optional	The magenta value for a CMYK based color. Possible values: • 0 (default) • Any decimal number between 0 and 100 (use separator ".") • 100
Yellow	Floating-point number	optional	The yellow value for a CMYK based color. Possible values: • 0 (default)

Element name	Type	Multiplicity	Description
			• Any decimal number between 0 and 100 (use separator ".") • 100
Black	Floating-point number	optional	The black value for a CMYK based color. Possible values: • 0 (default) • Any decimal number between 0 and 100 (use separator ".") • 100

3.7.4. ActionLists

This element specifies the Action Lists to be used before rendering, and to define the selection to be rendered.

Element name	Type	Multiplicity	Description
PrerenderActionList	PathType	optional	The Action List to be executed before the page is rendered.
RestrictingActionList	PathType	optional	The Action List to select the content that must be rendered. If nothing is selected on a page, the page will not be exported to an image. If no Action List is defined, all visible content is considered selected and will be rendered.

3.7.5. SmartPreflight

This element specifies the settings that should be used for Smart Preflighting the PDF file. One Variable Set and at most one Job Ticket can be specified. Whether or not the contents of the Job Ticket is used is defined by the Variable Set.

Note: For detailed information about Smart Preflight, please refer to the PitStop Server Reference Guide.

Element name	Type	Multiplicity	Description
VariableSet	*PathType*	required	Path to a Variable Set file

Element name	Type	Multiplicity	Description
JobTicket	*PathType*	zero or one	Path to a Job Ticket file

3.7.6. ColorManagement

This element specifies settings related to color management.

Color management can be configured separately for images and all other objects (text, line art), or for all objects (including images) at the same time.

If color management is not turned on for a particular object type, the corresponding source and target ICC profiles are ignored.

Element name	Type	Multiplicity & Description
AllObjects Images OtherObjects	*ColorManagementSettings* *ColorManagementSettings*	Only the following combinations are allowed: • Just "AllObjects": specify the same color management options for all objects in the file • Both "Images" and "OtherObjects": specify separate color management options for images and for non-images (text & line-art) • None of these elements: use the default settings for all objects in the file
CMMEngine	enumeration	The color management engine to be used; one of: • SystemCMM: the platform-specific engine (ICM on Windows, ColorSync on Mac) • AdobeCMM: the Adobe CMM engine, if it is available on the system; if it is not available, PitStop will return an error if the color management engine is required during processing • LittleCMS: the LittleCMS engine built into PitStop The default value is SystemCMM
UseBlackPoint Compensation	boolean	If present and true, Black Point Compensation will be used. Note that this

Element name	Type	Multiplicity & Description
		option is only available for the Adobe CMM and the Little CMS engine.

3.7.6.1. ColorManagementSettings

This element specifies color management settings for a particular category of objects.

Element name	Type	Multiplicity	Description
Enabled	boolean	optional	If true (default), color management is enabled. If false, the remaining settings in this list are ignored.
RenderingIntent	enumeration	optional	The output rendering intent; one of: • ObjectDefined (default): the rendering intent of the object itself, as shown on the prepress tab of the PitStop Inspector • Relative: in-gamut colors are reproduced exactly; out-of-gamut colors are mapped to the nearest value within the reproducible gamut; corrections are made for the output medium's white point. • Absolute: in-gamut colors are reproduced exactly; out-of-gamut colors are mapped to the nearest value within the reproducible gamut; no correction is made for the output medium's white point. • Saturation: colors are represented in a manner that preserves or emphasizes saturation. • Perceptual: colors are represented in a manner that provides a pleasing perceptual appearance.
SourceICCProfiles	*ICCProfiles*	optional (*)	The source ICC profiles

Element name	Type	Multiplicity	Description
			(*) Required if color management is enabled
SourceOutputIntentOverridesICCProfiles	boolean	optional	If true, the rendering intent overrides the selected ICC profile rendering intent for the source ICC profiles The default value is false
TargetICCProfiles	*ICCProfiles*	optional	The target ICC profiles. If not provided, the source ICC profiles are used as target ICC profiles as well. **Note:** Target ICC profiles set for non-images are only used for pre-rendering. For example, for color conversions (using a pre-render Action List, as the first step of the processing), you can use different profiles for images and other objects. However, to render the PDF to images, the *target ICC profiles for images* are used for all objects (also for text and line art) and regardless of the chosen (non-image) target profile for "OtherObjects".
TargetOutputIntentOverridesICCProfiles	boolean	optional	If true, the rendering intent overrides the selected ICC profile rendering intent for the target ICC profiles The default value is false

ICCProfiles

This element specifies the source or target ICC Profiles for a particular category of objects.

Each child element specifies the file path to the default ICC Profile for a particular color space. This ICC Profile is used for color converting an object in this color space unless the PDF file explicitly associates an ICC Profile with the object.

If the ICC Profile for a color space is not provided, the corresponding default Enfocus ICC Profile is used instead.

Element name	Type	Multiplicity	Description
Gray	*PathType*	optional	Path to ICC Profile for Gray color space
RGB	*PathType*	optional	Path to ICC Profile for RGB color space
CMYK	*PathType*	optional	Path to ICC Profile for CMYK color space
Lab	*PathType*	optional	Path to ICC Profile for Lab color space

3.7.7. Fonts

This element specifies settings for loading fonts.

Loading fonts can be quite time-consuming. To optimize performance, turn off system fonts if they are not needed, and limit additional fonts to those actually used in the job being processed.

Element name	Type	Multiplicity	Description
UseSystemFonts	boolean	optional	If true (default), the fonts in the system folder are available for handling fonts during processing. If false, the fonts in the system folder are not available.
AdditionalFolder	*PathType*	zero or more	Path to a folder containing additional fonts that should be available for handling fonts during processing of this task.
MonotypeBaseline PlatformSecurityToken	string	zero or one	Deprecated
FontLicense Restrictions	*type_FontLicense*	zero or one	Specifies the compliance with font license restrictions.

3.7.7.1. type_FontLicense

This element specifies your compliance with font license restrictions.

Element name	Type	Multiplicity	Description
AgreeWithFontLicenseRestrictions	boolean	required	If present and true, the PitStop Server CLI will assume you comply with the font license restrictions imposed by any font used in the PDF. Note that you must explicitly confirm that you comply with the font license restrictions in the "IComplyWithTheFontLicenseRestrictions" element.
IComplyWithTheFontLicenseRestrictions	boolean	required	Some fonts may be licensed for View and Print only. By choosing "true", you agree that you have checked the licensing conditions of the print vendor of these fonts and that you are allowed to manipulate these fonts according to this configuration. Enfocus disclaims any liability for any use of the fonts which is not in accordance with the licensing agreement between yourself and the print vendor. Choose "false" if you do not agree.

4. Task Report XML file

4.1. Introduction

When a task report path is specified on the command line or in the configuration file, PitStop Server CLI creates a task report. By default the task report contains only minimal status information. However the configuration file can request additional information to be included in the task report (See *Configuration XML file* on page 13). Examples include:

- The errors and warnings produced by a preflight operation.
- Information about the exported images resulting from an ExportImage task.
- A list of available Preflight Profiles.
- Debugging information on the CLI's execution.

The task report is constructed as a tree of XML elements. The remaining sections in this chapter describe each element that may appear in the file and its immediate child elements.

4.1.1. Unicode support

The task report is a well-formed XML document using UTF-8 encoding, which means that it fully supports Unicode for text values such as file names.

4.1.2. XML namespace and schema

XML namespace	http://www.enfocus.com/PitStop/21/PitStopServerCLI_TaskReport.xsd
Preferred prefix	tr (or use default namespace)
Schema definition	PitStopServerCLI_TaskReport.xsd

The task report generated by PitStopServerCLI uses the default namespace but it also defines the "tr" prefix to facilitate querying the report with xslt in Switch.

4.1.3. PathType

This is a string type representing an absolute file or folder path in the native platform format, for example:

- On Windows: C:\Preflight\Input\input.pdf
- On Mac: /Volumes/Preflight/Input/input.pdf

4.2. TaskReport

This is the root element of the task report file. Its child elements are generated in a logical execution order, not necessarily in the order presented in the following table.

Element name	Type	Multiplicity	Description
FormatVersion	integer	required	The format version of this task report. Currently this is "3".
ExitCode	integer	required	The exit code returned by the CLI. This is always present, assuming that the task report could be created.
ErrorCode	integer	optional	If the exit code is nonzero, the error code as written to stdout (assuming that the task report could be created).
ErrorMessage	string	optional	If the exit code is nonzero, the error message as written to stdout, without the leading error code and colon (assuming that the task report could be created).
VersionInfo	*VersionInfo*	optional (if requested)	Version information on the PitStop Server CLI generating this task report.
LibraryVersionInfo	*VersionInfo*	optional (if requested)	Version information on the PitStop Library used by the PitStop Server CLI generating this task report.
SupportInfo	*SupportInfo*	optional (if requested)	Information useful for support and debugging purposes.
CommandLine	*CommandLine*	optional (if requested)	A list of the options received (and recognized) on the command line.

Element name	Type	Multiplicity	Description
ProcessResults	*ProcessResults*	zero or more (if requested)	The number of errors, warnings, fixes, signoffs, failures and critical failures for each Process task.
ImageExportResults	*ImageExportResults*	zero or more (if requested)	Information on the results of an ImageExport task.
Errors	*Errors*	optional	A list of error and warning messages encountered during execution.
Languages	*Languages*	optional (if requested)	A list of the languages supported by PitStop Server CLI.
CMMs	*CMMs*	optional (if requested)	A list of CMMs supported by PitStop Server CLI.
DefaultProfileDB	*MutatorDB*	optional (if requested)	A list of the Preflight Profiles in the default database.
LocalProfileDB	*MutatorDB*	optional (if requested)	A list of the Preflight Profiles in the local database.
DefaultActionDB	*MutatorDB*	optional (if requested)	A list of the Action Lists in the default database.
LocalActionDB	*MutatorDB*	optional (if requested)	A list of the Action Lists in the local database.
MutatorInfo	*MutatorInfo*	zero or more	Information on a mutator, i.e. a Preflight Profile or an Action List.

Element name	Type	Multiplicity	Description
		(as requested)	

4.2.1. VersionInfo

This element offers version information on the CLI (VersionInfo) or on the associated PitStop Library (LibraryVersionInfo).

Element name	Type	Multiplicity	Description
DisplayVersion	string	required	The version string as it would be displayed to a user, for example “12 update 3”.
Major	integer	required	The major version number, e.g. “12”.
Minor	integer	required	The minor version number, e.g. “3”.
BuildType	enumeration	required	The build type; one of: • Alpha • Beta • ReleaseCandidate • Final
ReleaseNumber	integer	optional	The release number; this is not present for final builds.
BuildNumber	integer	required	The internal build sequence number.

4.2.2. SupportInfo

This element offers information that is useful for Enfocus technical support. Its content is not documented and may be changed without notice in future versions of the task report.

4.2.3. CommandLine

This element lists the values of the command line options as they were recognized by PitStop Server CLI after merging with the corresponding values in the first Process or ExportImage element and the TaskReport element in the configuration file.

A child element is not listed if both the command line option and the corresponding value in the configuration file are missing.

Element name	Type	Multiplicity	Description
Config	*PathType*	optional	Absolute path to the configuration file
Input	*PathType*	optional	Absolute path to the PDF input file
Mutator	*PathType*	zero or more	Absolute path to the mutators used for processing
Output	*PathType*	optional	Absolute path to the PDF output file or output images
ReportPDF	*PathType*	optional	Absolute path to the PDF Report file
ReportPDFTmpl	*PathType*	optional	Absolute path to the PDF Report template file
ReportXML	*PathType*	optional	Absolute path to the XML Report file
TaskReport	*PathType*	required	Absolute path to the task Report file

4.2.4. ProcessResults

This element offers information on the results of a process task. A separate ProcessResults element is provided for each Process element in the configuration file.

Element name	Type	Multiplicity	Description
Errors	integer	required	Number of errors reported during processing
Warnings	integer	required	Number of warnings reported during processing
Fixes	integer	required	Number of fixes reported during processing
Signoffs	integer	required	Number of sign-offs reported during processing
Failures	integer	required	Number of failures reported during processing
NonCriticalFailures	integer	required	Number of non-critical failures reported during processing

4.2.5. ImageExportResults

This element offers information on the results of an ExportImage task. A separate ImageExportResults element is provided for each ExportImage element in the configuration file.

The ImageExportResults element can have a TaskID attribute, specifying the ExportImage task which generated these results.

Note: If the ExportImage task did not result in any exported images, it will not contain any elements.

Element name	Type	Multiplicity	Description
Image	*PathType*	Optional	Information about each exported image. Attributes: • Page: This attribute contains the zero based page number from which the image was rendered. • Separation: If the image was rendered using Separations as RenderType, this attribute will contain the name of the separation (See *RenderOptions* on page 35).

4.2.6. Errors

This element lists any error and warning messages encountered during execution. There is only a single "Errors" element, i.e. errors are not split per process or task.

Element name	Type	Multiplicity	Description
Error	*Error*	zero or more	Information about an error or warning message

4.2.6.1. Error

This element offers information about an error or warning message

Element name	Type	Multiplicity	Description
TimeStamp	date-time	required	The date and time the error or warning occurred.
Message	string	required	A message describing the error or warning in English.
ErrorCode	integer	optional	An error code corresponding to the error or warning, if available.

Element name	Type	Multiplicity	Description
Severity	integer	optional	An indication of the severity of this error or warning; higher numbers indicate more severe errors. The default value is zero, which should be used for warnings.

4.2.7. Languages

This element lists the Preflight Report languages supported by PitStop Server CLI.

Element name	Type	Multiplicity	Description
Language	enumeration	one or more	One of the supported languages, represented by their translated name. The attribute is a 4-character string in the form 'enUS';'frFR', 'deDE',... English is always available.

4.2.8. CMMs

This element lists the color management engines available to PitStop Server CLI.

Element name	Type	Multiplicity	Description
CMM	enumeration	one or more	One of the available color management engines (SystemCMM, AdobeCMM, or LittleCMS). LittleCMS is always available.

4.2.9. MutatorDB

These elements (DefaultProfileDB, LocalProfileDB, DefaultActionDB, LocalActionDB) list the mutators in one of the predefined databases plus any requested information on these mutators.

Element name	Type	Multiplicity	Description
MutatorInfo	*MutatorInfo*	zero or more	Information on one of the mutators in the predefined database

4.2.10. MutatorInfo

This element lists information about a mutator. It can occur in two places:

- As a child of one of the MutatorDB elements.
- As a standalone child of the TaskReport, in response to a QueryMutatorInfo request.

Element name	Type	Multiplicity	Description
MutatorPath	*PathType*	required	The absolute file path to the mutator (Preflight Profile or Action List).
Name	string	optional	The name of the mutator.
Company	string	optional	The company of the author of the mutator.
Author	string	optional	The author of the mutator.
Description	string	optional	The description of the mutator.
MutatorType	enumeration	optional	The mutator type: PreflightProfile or ActionList.
DateTime	date-time	optional	The most recent modification date and time of the mutator.
Version	integer	optional	The version of the mutator.
IsFullyUnderstood	boolean	optional	True if PitStop Server CLI fully supports all settings and instructions in this mutator.
IsVersionCorrect	boolean	optional	True if the version of the mutator is correct.
IsConfigurationCorrect	boolean	optional	True if the configuration of the mutator is correct.
IsUsableAsRestriction	boolean	optional	True if the mutator can be used as a restricting Action List.

5. Task identifiers

5.1. Introduction

5.1.1. Logical order

Information in the task report is generally listed in a logical order. For example:

- ProcessResults elements in the task report are listed in the same order as the corresponding Process elements in the configuration file.
- MutatorInfo elements in the task report are listed in the same order as the corresponding QueryMutatorInfo elements in the configuration file.

Still it is not trivial to locate the information associated with a particular task or query.

5.1.2. Task identifiers

Task identifiers help locate information in the task report as follows:

- Selected elements in the configuration file allow an XML attribute called “TaskID” which can have an arbitrary string value.
- If a TaskID attribute is specified in the configuration file, the corresponding elements in the task report also have a TaskID attribute with the same value.

Thus one can locate information in the task report simply by locating elements with the appropriate value for the TaskID attribute.

5.1.3. XML namespace

The TaskID attribute has no namespace prefix.

5.1.4. Empty value

Specifying an empty TaskID attribute value is equivalent to specifying no TaskID attribute, and vice versa.

5.2. Supported elements

The following table presents the list of elements in the configuration file supporting the TaskID attribute, and the corresponding elements in the task report that "inherit" the value of the TaskID attribute.

Configuration elements supporting TaskID	Task report elements inheriting TaskID
Initialize	Error
Process	ProcessResults, Error
ExportImage	ImageExportResults
QueryMutatorInfo	MutatorInfo, Error

Specifying a TaskID attribute on any other element has no effect.

6. Appendix

6.1. Example Configurations

6.1.1. Flattening a PDF

```
<?xml version="1.0" encoding="utf-8"?>
<cf:Configuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:cf="http://www.enfocus.com/PitStop/21/PitStopServerCLI_Configuration.xsd">

<cf:Versioning>
   <cf:Version>8</cf:Version>
   <cf:VersioningStrategy>BestEffort</cf:VersioningStrategy>
</cf:Versioning>

<cf:Initialize>
   <cf:ProcessingMethod>EnforceServer</cf:ProcessingMethod> <!-- This is the fastest
 way
   -->
</cf:Initialize>

<!-- This flattens a PDF -->
<cf:Process>
   <cf:InputPDF>
   <cf:InputPath>D:\Flattening\Input.pdf</cf:InputPath> <!-- This path can also be
   passed through command line -->
   </cf:InputPDF>
   <cf:OutputPDF>
   <cf:OutputPath>D:\Flattening\Output.pdf</cf:OutputPath> <!-- This path can also be
   passed through command line -->
   </cf:OutputPDF>
   <cf:Flattening>
   <cf:RasterVectorBalance>75</cf:RasterVectorBalance>
   <cf:VectorResolution>300</cf:VectorResolution>
   <cf:GradientResolution>150</cf:GradientResolution>
   </cf:Flattening>
   <cf:CertifiedPDF>
   <cf:CertifiedPDFAction>KeepStatusUnchanged</cf:CertifiedPDFAction> <!-- Making it
   certified is a good default if you're preflighting, but less so if you're only
 flattening -->
   </cf:CertifiedPDF>
</cf:Process>

</cf:Configuration>
```

6.1.2. Retrieving Preflight Profile information

```
<?xml version="1.0" encoding="utf-8"?>
  <cf:Configuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:cf="http://www.enfocus.com/PitStop/21/PitStopServerCLI_Configuration.xsd">

<cf:Versioning>
   <cf:Version>8</cf:Version>
   <cf:VersioningStrategy>BestEffort</cf:VersioningStrategy>
</cf:Versioning>

<!-- This writes the information about a Preflight Profile to an XML file -->
```

```
<cf:TaskReport>
   <cf:TaskReportPath>D:\Info\TaskReport.xml</cf:TaskReportPath> <!-- This path can
 also
   be passed through command line -->
   <cf:QueryMutatorInfo>
   <cf:MutatorPath>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\PDF
   Profiles\Ghent PDF Workgroup\2012 Specifications
   (PDFX-4)\GWG_MagazineAds_2012.ppp</cf:MutatorPath>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Company</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Author</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Description</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>MutatorType</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsFullyUnderstood</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsVersionCorrect</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsConfigurationCorrect</cf:MutatorInfoOptions>
   </cf:QueryMutatorInfo>
</cf:TaskReport>

</cf:Configuration>
```

6.1.3. Converting a PDF to images

```
<?xml version="1.0" encoding="utf-8"?>
  <cf:Configuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:cf="http://www.enfocus.com/PitStop/21/PitStopServerCLI_Configuration.xsd">

<cf:Versioning>
   <cf:Version>9</cf:Version>
   <cf:VersioningStrategy>BestEffort</cf:VersioningStrategy>
</cf:Versioning>

<cf:Initialize>
   <cf:ProcessingMethod>EnforceInternal</cf:ProcessingMethod> <!-- PDF 2 image cannot
 be
   off loaded -->
</cf:Initialize>

<cf:TaskReport>
   <cf:TaskReportPath>D:\PDF2Image\TaskReport.xml</cf:TaskReportPath> <!-- This path
 can
   also be passed through command line -->
   <cf:LogExportImageResults>true</cf:LogExportImageResults>
</cf:TaskReport>

<cf:ExportImage TaskID="My Render Job">
   <cf:InputPDF>
   <cf:InputPath>D:\PDF2Image\Input.pdf</cf:InputPath> <!-- This path can also be
 passed
   through command line -->
   </cf:InputPDF>
   <cf:OutputImages>
   <cf:OutputPath>D:\PDF2Image\Output_%1.png</cf:OutputPath> <!-- This path can also
 be
   passed through command line -->
   <cf:SaveOptions FileType="PNG">
   <cf:Interlaced>true</cf:Interlaced>
   </cf:SaveOptions>
   </cf:OutputImages>
   <cf:RenderOptions>
   <cf:RenderType>Separations</cf:RenderType>
   <cf:BackgroundColor>
   <cf:Red>255</cf:Red>
   <cf:Green>255</cf:Green>
   <cf:Blue>255</cf:Blue>
   </cf:BackgroundColor>
   <cf:RenderArea>BleedBox</cf:RenderArea>
   <cf:ImageDimensions>
   <cf:Width>600</cf:Width>
   </cf:ImageDimensions>
   <cf:IncludeEmptyPages>true</cf:IncludeEmptyPages>
   <cf:AntiAliasing>false</cf:AntiAliasing>
```

```
   </cf:RenderOptions>
</cf:ExportImage>

</cf:Configuration>
```

6.1.4. Validating a PDF against a GWG Profile

```
<?xml version="1.0" encoding="utf-8"?>
  <cf:Configuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:cf="http://www.enfocus.com/PitStop/21/PitStopServerCLI_Configuration.xsd">

<cf:Versioning>
   <cf:Version>8</cf:Version>
   <cf:VersioningStrategy>BestEffort</cf:VersioningStrategy>
</cf:Versioning>

<cf:Initialize>
   <cf:ProcessingMethod>EnforceServer</cf:ProcessingMethod> <!-- This is the fastest
   option -->
</cf:Initialize>

<cf:Process>
   <cf:InputPDF>
   <cf:InputPath>D:\Processing\Input.pdf</cf:InputPath> <!-- This path can also be
   passed through command line -->
   </cf:InputPDF>
   <cf:OutputPDF>
   <cf:OutputPath>D:\Processing\Output.pdf</cf:OutputPath> <!-- This path can also be
   passed through command line -->
   </cf:OutputPDF>
   <cf:Reports>
   <cf:ReportPDF>
   <cf:ReportPath>D:\Processing\Report.pdf</cf:ReportPath> <!-- This path can also be
   passed through the command line -->
   </cf:ReportPDF>
   </cf:Reports>
   <cf:Mutators>
   <cf:PreflightProfile>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources
\PDF
   Profiles\Ghent PDF Workgroup\2012 Specifications
   (PDFX-4)\GWG_MagazineAds_2012.ppp</cf:PreflightProfile>
   </cf:Mutators>
   <cf:CertifiedPDF>
   <cf:CertifiedPDFAction>MakeCertified</cf:CertifiedPDFAction>
   <cf:UserInfo>
   <cf:Name>Jane Doe</cf:Name>
   <cf:Company>Enfocus, an Esko Company</cf:Company>
   <cf:Street>Kortrijksesteenweg 1095</cf:Street>
   <cf:City>Ghent</cf:City>
   <cf:Country>Belgium</cf:Country>
   <cf:PostalCode>9051</cf:PostalCode>
   <cf:Email>jane.doe@enfocus.com</cf:Email>
   </cf:UserInfo>
   <cf:SessionComment>Making the file comply with GWG 2012</cf:SessionComment>
   </cf:CertifiedPDF>
   <cf:Language>frFR</cf:Language>
   <cf:MeasurementUnit>Millimeter</cf:MeasurementUnit>
</cf:Process>

</cf:Configuration>
```

6.1.5. Full Configuration (Windows)

```
<?xml version="1.0" encoding="utf-8"?>
<cf:Configuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:cf="http://www.enfocus.com/PitStop/21/PitStopServerCLI_Configuration.xsd">
```

```
 <cf:Versioning>
  <cf:Version>9</cf:Version>
  <cf:VersioningStrategy>BestEffort</cf:VersioningStrategy>
 </cf:Versioning>

 <cf:Initialize>
  <cf:TempPath>C:\temp</cf:TempPath>
  <cf:ProcessingMethod>EnforceServer</cf:ProcessingMethod>
  <cf:ShutDownServerAtExit>true</cf:ShutDownServerAtExit>
 </cf:Initialize>

<cf:TaskReport>
  <cf:TaskReportPath>C:\Documents and Settings\user\Desktop\MyTestTaskReport.xml</
cf:TaskReportPath>
  <cf:LogVersionInfo>true</cf:LogVersionInfo>
  <cf:LogSupportInfo>true</cf:LogSupportInfo>
  <cf:LogCommandLine>true</cf:LogCommandLine>
  <cf:LogProcessResults>true</cf:LogProcessResults>
  <cf:LogExportImageResults>true</cf:LogExportImageResults>
  <cf:LogErrors>true</cf:LogErrors>
  <cf:QueryLanguages>true</cf:QueryLanguages>
  <cf:QueryCMMs>true</cf:QueryCMMs>
  <cf:QueryDefaultProfileDB>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Company</cf:MutatorInfoOptions>
  </cf:QueryDefaultProfileDB>
  <cf:QueryLocalProfileDB>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
  </cf:QueryLocalProfileDB>
  <cf:QueryDefaultActionDB>
   <cf:MutatorInfoOptions>IsVersionCorrect</cf:MutatorInfoOptions>
  </cf:QueryDefaultActionDB>
  <cf:QueryLocalActionDB>
   <cf:MutatorInfoOptions>DateTime</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsUsableAsRestriction</cf:MutatorInfoOptions>
  </cf:QueryLocalActionDB>
  <cf:QueryMutatorInfo>
   <cf:MutatorPath>C:\Documents and Settings\user\Desktop\My Action List Collection
\Add Banner.eal</cf:MutatorPath>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Version</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsConfigurationCorrect</cf:MutatorInfoOptions>
  </cf:QueryMutatorInfo>
  <cf:QueryMutatorInfo TaskID="My Preflight Profile">
   <cf:MutatorPath>C:\Documents and Settings\user\Desktop\My Preflight Profile
 Collection\Custom.ppp</cf:MutatorPath>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Company</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Author</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Description</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>MutatorType</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>DateTime</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Version</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsFullyUnderstood</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsVersionCorrect</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsConfigurationCorrect</cf:MutatorInfoOptions>
  </cf:QueryMutatorInfo>
 </cf:TaskReport>

 <cf:Process TaskID="My Process Job">
  <cf:InputPDF>
   <cf:InputPath>C:\Documents and Settings\user\Desktop\Temp\Input.pdf</cf:InputPath>
  </cf:InputPDF>
  <cf:OutputPDF>
   <cf:OutputPath>C:\Documents and Settings\user\Desktop\Temp\Output.pdf</
cf:OutputPath>
   <cf:SaveOptions>
    <cf:PerformFullSave>true</cf:PerformFullSave>
    <cf:Optimization>Disabled</cf:Optimization>
   </cf:SaveOptions>
  </cf:OutputPDF>
  <cf:Reports>
   <cf:ReportPDF>
    <cf:ReportPath>C:\Documents and Settings\user\Desktop\Temp\Report.pdf</
cf:ReportPath>
    <cf:ReportTemplatePath>C:\Documents and Settings\user\Desktop\Gears
\PitStopReportGears.prefs</cf:ReportTemplatePath>
```

```
    </cf:ReportPDF>
    <cf:ReportXML>
     <cf:ReportPath>C:\Documents and Settings\user\Desktop\Temp\Report.xml</
cf:ReportPath>
     <cf:Version>2</cf:Version>
     <cf:MaxReportedNbItemsPerCategory>50</cf:MaxReportedNbItemsPerCategory>
     <cf:MaxReportedNbOccurrencesPerItem>75</cf:MaxReportedNbOccurrencesPerItem>
    </cf:ReportXML>
   </cf:Reports>
   <cf:Flattening>
     <cf:RasterVectorBalance>75</cf:RasterVectorBalance>
     <cf:VectorResolution>300</cf:VectorResolution>
     <cf:GradientResolution>150</cf:GradientResolution>
     <cf:ConvertAllText>false</cf:ConvertAllText>
     <cf:ConvertAllStrokes>true</cf:ConvertAllStrokes>
     <cf:ClipComplexRegions>true</cf:ClipComplexRegions>
     <cf:PreserveOverprint>true</cf:PreserveOverprint>
     <cf:BlendingColorSpace Type="ICCProfile">C:\Windows\System32\spool\drivers\color
\UncoatedFOGRA29.icc</cf:BlendingColorSpace>
     <cf:RemoveICCProfiles>true</cf:RemoveICCProfiles>
     <cf:ImageRecompression>
       <cf:Color>JPEGMedium</cf:Color>
       <cf:Grayscale>ZIP8bit</cf:Grayscale>
       <cf:OneBit>RunLength</cf:OneBit>
       <cf:ASCIIFilter>ASCIIHex</cf:ASCIIFilter>
     </cf:ImageRecompression>
   </cf:Flattening>
   <cf:Mutators>
    <cf:ActionList>C:\Documents and Settings\user\Desktop\My Action List Collection\Add
 Stamp.eal</cf:ActionList>
    <cf:ActionList>C:\Documents and Settings\user\Desktop\My Action List Collection
\Rotate.eal</cf:ActionList>
    <cf:PreflightProfile>C:\Documents and Settings\user\Desktop\My Preflight Profile
 Collection\Modified MagazineAds_1v3.ppp</cf:PreflightProfile>
   </cf:Mutators>
   <cf:SmartPreflight>
     <cf:VariableSet>C:\Documents and Settings\user\Desktop\My Action Variable Set
 Collection\Page Size.evs</cf:VariableSet>
     <cf:JobTicket>C:\Documents and Settings\user\Desktop\Temp\JobTicket.xml</
cf:JobTicket>
   </cf:SmartPreflight>
   <cf:CertifiedPDF>
    <cf:CertifiedPDFAction>MakeCertified</cf:CertifiedPDFAction>
    <cf:KeepOriginalProfile>false</cf:KeepOriginalProfile>
    <cf:UserInfo>
     <cf:Name>Name</cf:Name>
     <cf:Company>Company</cf:Company>
     <cf:Street>Street</cf:Street>
     <cf:City>City</cf:City>
     <cf:State>State</cf:State>
     <cf:Country>Country</cf:Country>
     <cf:PostalCode>PostalCode</cf:PostalCode>
     <cf:Phone>Phone</cf:Phone>
     <cf:Fax>Fax</cf:Fax>
     <cf:Email>Email</cf:Email>
     <cf:Message>Message</cf:Message>
    </cf:UserInfo>
    <cf:SessionComment>SessionComment</cf:SessionComment>
   </cf:CertifiedPDF>
   <cf:ColorManagement>
    <cf:Images>
     <cf:Enabled>true</cf:Enabled>
     <cf:RenderingIntent>ObjectDefined</cf:RenderingIntent>
     <cf:SourceICCProfiles>
      <cf:Gray>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Gray.icm</cf:Gray>
      <cf:RGB>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC
\AdobeRGB1998.icc</cf:RGB>
      <cf:CMYK>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\WAN-
IFRA\ISOcoated_v2_eci.icc</cf:CMYK>
      <cf:Lab>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Lab.icm</cf:Lab>
     </cf:SourceICCProfiles>
     <cf:SourceOutputIntentOverridesICCProfiles>
      false
     </cf:SourceOutputIntentOverridesICCProfiles>
     <cf:TargetICCProfiles>
```

```
      <cf:Gray>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Gray.icm</cf:Gray>
      <cf:RGB>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC
\AdobeRGB1998.icc</cf:RGB>
      <cf:CMYK>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\WAN-
IFRA\ISOcoated_v2_eci.icc</cf:CMYK>
      <cf:Lab>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Lab.icm</cf:Lab>
     </cf:TargetICCProfiles>
     <cf:TargetOutputIntentOverridesICCProfiles>
      false
     </cf:TargetOutputIntentOverridesICCProfiles>
    </cf:Images>
    <cf:OtherObjects>
     <cf:Enabled>true</cf:Enabled>
     <cf:RenderingIntent>ObjectDefined</cf:RenderingIntent>
     <cf:SourceICCProfiles>
      <cf:Gray>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Gray.icm</cf:Gray>
      <cf:RGB>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC
\AdobeRGB1998.icc</cf:RGB>
      <cf:CMYK>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\WAN-
IFRA\ISOcoated_v2_eci.icc</cf:CMYK>
      <cf:Lab>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Lab.icm</cf:Lab>
     </cf:SourceICCProfiles>
     <cf:SourceOutputIntentOverridesICCProfiles>
      false
     </cf:SourceOutputIntentOverridesICCProfiles>
     <cf:TargetICCProfiles>
      <cf:Gray>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Gray.icm</cf:Gray>
      <cf:RGB>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC
\AdobeRGB1998.icc</cf:RGB>
      <cf:CMYK>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\WAN-
IFRA\ISOcoated_v2_eci.icc</cf:CMYK>
      <cf:Lab>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Lab.icm</cf:Lab>
     </cf:TargetICCProfiles>
     <cf:TargetOutputIntentOverridesICCProfiles>
      false
     </cf:TargetOutputIntentOverridesICCProfiles>
    </cf:OtherObjects>
    <cf:CMMEngine>LittleCMS</cf:CMMEngine>
    <cf:UseBlackPointCompensation>true</cf:UseBlackPointCompensation>
   </cf:ColorManagement>
   <cf:Fonts>
    <cf:UseSystemFonts>true</cf:UseSystemFonts>
    <cf:AdditionalFolder>C:\Documents and Settings\user\Desktop\Collected Fonts</
cf:AdditionalFolder>
   </cf:Fonts>
   <cf:Language>enUS</cf:Language>
   <cf:MeasurementUnit>Point</cf:MeasurementUnit>
  </cf:Process>
<cf:ExportImage TaskID="My Render Job">
   <cf:InputPDF>
    <cf:InputPath>C:\Documents and Settings\user\Desktop\Temp\Input.pdf</cf:InputPath>
   </cf:InputPDF>
   <cf:OutputImages>
    <cf:OutputPath>C:\Documents and Settings\user\Desktop\Temp\Images\image%1.png</
cf:OutputPath>
    <cf:SaveOptions FileType="PNG">
     <cf:Interlaced>true</cf:Interlaced>
     <cf:EmbedICCProfile>true</cf:EmbedICCProfile>
    </cf:SaveOptions>
   </cf:OutputImages>
   <cf:RenderOptions>
    <cf:RenderType>Separations</cf:RenderType>
    <cf:OutputColorSpace>DeviceGray</cf:OutputColorSpace>
    <cf:BackgroundColor>
     <cf:Gray>0.2</cf:Gray>
    </cf:BackgroundColor>
    <cf:RenderArea>BleedBox</cf:RenderArea>
    <cf:ImageDimensions>
     <cf:Width>600</cf:Width>
    </cf:ImageDimensions>
    <cf:IncludeEmptyPages>true</cf:IncludeEmptyPages>
```

```
    <cf:AntiAliasing>false</cf:AntiAliasing>
   </cf:RenderOptions>
   <cf:ActionLists>
    <cf:PrerenderActionList>C:\Documents and Settings\user\Desktop\My Action List
 Collection\Add Watermark.eal</cf:PrerenderActionList>
    <cf:RestrictingActionList>C:\Documents and Settings\user\Desktop\My Action List
 Collection\Select Artwork And Language Layer.eal</cf:RestrictingActionList>
   </cf:ActionLists>
   <cf:SmartPreflight>
     <cf:VariableSet>C:\Documents and Settings\user\Desktop\My Action Variable Set
 Collection\Language Selection.evs</cf:VariableSet>
    <cf:JobTicket>C:\Documents and Settings\user\Desktop\Temp\JobTicket.xml</
cf:JobTicket>
   </cf:SmartPreflight>
   <cf:ColorManagement>
    <cf:AllObjects>
     <cf:Enabled>true</cf:Enabled>
     <cf:RenderingIntent>ObjectDefined</cf:RenderingIntent>
     <cf:SourceICCProfiles>
      <cf:Gray>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Gray.icm</cf:Gray>
      <cf:RGB>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC
\AdobeRGB1998.icc</cf:RGB>
      <cf:CMYK>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\WAN-
IFRA\ISOcoated_v2_eci.icc</cf:CMYK>
      <cf:Lab>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Lab.icm</cf:Lab>
     </cf:SourceICCProfiles>
     <cf:SourceOutputIntentOverridesICCProfiles>
      false
     </cf:SourceOutputIntentOverridesICCProfiles>
     <cf:TargetICCProfiles>
      <cf:Gray>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Gray.icm</cf:Gray>
      <cf:RGB>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC
\AdobeRGB1998.icc</cf:RGB>
      <cf:CMYK>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\WAN-
IFRA\ISOcoated_v2_eci.icc</cf:CMYK>
      <cf:Lab>C:\Program Files\Enfocus\Enfocus PitStop Server 21\Resources\ICC\Generic
 Enfocus Lab.icm</cf:Lab>
     </cf:TargetICCProfiles>
     <cf:TargetOutputIntentOverridesICCProfiles>
      false
     </cf:TargetOutputIntentOverridesICCProfiles>
    </cf:AllObjects>
    <cf:CMMEngine>LittleCMS</cf:CMMEngine>
    <cf:UseBlackPointCompensation>true</cf:UseBlackPointCompensation>
   </cf:ColorManagement>
   <cf:Fonts>
    <cf:UseSystemFonts>true</cf:UseSystemFonts>
    <cf:AdditionalFolder>C:\Documents and Settings\user\Desktop\Collected Fonts</
cf:AdditionalFolder>
   </cf:Fonts>
  </cf:ExportImage>
</cf:Configuration>
```

6.1.6. Full Configuration (Mac)

```
<?xml version="1.0" encoding="utf-8"?>
<cf:Configuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns:cf="http://www.enfocus.com/PitStop/21/PitStopServerCLI_Configuration.xsd">

 <cf:Versioning>
  <cf:Version>9</cf:Version>
  <cf:VersioningStrategy>BestEffort</cf:VersioningStrategy>
 </cf:Versioning>

 <cf:Initialize>
   <cf:TempPath>/Volumes/Temp</cf:TempPath>
   <cf:ProcessingMethod>EnforceServer</cf:ProcessingMethod>
   <cf:ShutDownServerAtExit>true</cf:ShutDownServerAtExit>
 </cf:Initialize>
```

```
 <cf:TaskReport>
  <cf:TaskReportPath>/Users/user/Desktop/MyTestTaskReport.xml</cf:TaskReportPath>
  <cf:LogVersionInfo>true</cf:LogVersionInfo>
  <cf:LogSupportInfo>true</cf:LogSupportInfo>
  <cf:LogCommandLine>true</cf:LogCommandLine>
  <cf:LogProcessResults>true</cf:LogProcessResults>
  <cf:LogExportImageResults>true</cf:LogExportImageResults>
  <cf:LogErrors>true</cf:LogErrors>
  <cf:QueryLanguages>true</cf:QueryLanguages>
  <cf:QueryCMMs>true</cf:QueryCMMs>
  <cf:QueryDefaultProfileDB>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Company</cf:MutatorInfoOptions>
  </cf:QueryDefaultProfileDB>
  <cf:QueryLocalProfileDB>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
  </cf:QueryLocalProfileDB>
  <cf:QueryDefaultActionDB>
   <cf:MutatorInfoOptions>IsVersionCorrect</cf:MutatorInfoOptions>
  </cf:QueryDefaultActionDB>
  <cf:QueryLocalActionDB>
   <cf:MutatorInfoOptions>DateTime</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsUsableAsRestriction</cf:MutatorInfoOptions>
  </cf:QueryLocalActionDB>
  <cf:QueryMutatorInfo>
   <cf:MutatorPath>/Users/user/Desktop/My Action List Collection/Add Banner.eal</
cf:MutatorPath>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Version</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsConfigurationCorrect</cf:MutatorInfoOptions>
  </cf:QueryMutatorInfo>
  <cf:QueryMutatorInfo TaskID="My Preflight Profile">
   <cf:MutatorPath>/Users/user/Desktop/My Preflight Profile Collection/Custom.ppp</
cf:MutatorPath>
   <cf:MutatorInfoOptions>Name</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Company</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Author</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Description</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>MutatorType</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>DateTime</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>Version</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsFullyUnderstood</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsVersionCorrect</cf:MutatorInfoOptions>
   <cf:MutatorInfoOptions>IsConfigurationCorrect</cf:MutatorInfoOptions>
  </cf:QueryMutatorInfo>
 </cf:TaskReport>

 <cf:Process TaskID="My Process Job">
  <cf:InputPDF>
   <cf:InputPath>/Users/user/Desktop/Temp/Input.pdf</cf:InputPath>
  </cf:InputPDF>
  <cf:OutputPDF>
   <cf:OutputPath>/Users/user/Desktop/Temp/Output.pdf</cf:OutputPath>
   <cf:SaveOptions>
    <cf:PerformFullSave>true</cf:PerformFullSave>
    <cf:Optimization>Disabled</cf:Optimization>
   </cf:SaveOptions>
  </cf:OutputPDF>
  <cf:Reports>
   <cf:ReportPDF>
    <cf:ReportPath>/Users/user/Desktop/Temp/Report.pdf</cf:ReportPath>
    <cf:ReportTemplatePath>/Library/Preferences/Enfocus Prefs Folder/Report Templates/
Custom/Gears/PitStopReportGears.prefs</cf:ReportTemplatePath>
   </cf:ReportPDF>
   <cf:ReportXML>
    <cf:ReportPath>/Users/user/Desktop/Temp/Report.xml</cf:ReportPath>
    <cf:Version>2</cf:Version>
    <cf:MaxReportedNbItemsPerCategory>50</cf:MaxReportedNbItemsPerCategory>
    <cf:MaxReportedNbOccurrencesPerItem>75</cf:MaxReportedNbOccurrencesPerItem>
   </cf:ReportXML>
  </cf:Reports>
  <cf:Flattening>
    <cf:RasterVectorBalance>75</cf:RasterVectorBalance>
    <cf:VectorResolution>300</cf:VectorResolution>
    <cf:GradientResolution>150</cf:GradientResolution>
    <cf:ConvertAllText>false</cf:ConvertAllText>
```

```
    <cf:ConvertAllStrokes>true</cf:ConvertAllStrokes>
    <cf:ClipComplexRegions>true</cf:ClipComplexRegions>
    <cf:PreserveOverprint>true</cf:PreserveOverprint>
    <cf:BlendingColorSpace Type="ICCProfile">/Library/ColorSync/Profiles/
UncoatedFOGRA29.icc</cf:BlendingColorSpace>
    <cf:RemoveICCProfiles>true</cf:RemoveICCProfiles>
    <cf:ImageRecompression>
      <cf:Color>JPEGMedium</cf:Color>
      <cf:Grayscale>ZIP8bit</cf:Grayscale>
      <cf:OneBit>RunLength</cf:OneBit>
      <cf:ASCIIFilter>ASCIIHex</cf:ASCIIFilter>
    </cf:ImageRecompression>
  </cf:Flattening>
  <cf:Mutators>
   <cf:ActionList>/Users/user/Desktop/My Action List Collection/Add Stamp.eal</
cf:ActionList>
   <cf:ActionList>/Users/user/Desktop/My Action List Collection/Rotate.eal</
cf:ActionList>
   <cf:PreflightProfile>/Users/user/Desktop/My Preflight Profile Collection/Modified
 MagazineAds_1v3.ppp</cf:PreflightProfile>
  </cf:Mutators>
  <cf:SmartPreflight>
    <cf:VariableSet>/Users/user/Desktop/My Action Variable Set Collection/Page
 Size.evs</cf:VariableSet>
    <cf:JobTicket>/Users/user/Desktop/Desktop/Temp/JobTicket.xml</cf:JobTicket>
  </cf:SmartPreflight>
  <cf:CertifiedPDF>
   <cf:CertifiedPDFAction>MakeCertified</cf:CertifiedPDFAction>
   <cf:KeepOriginalProfile>false</cf:KeepOriginalProfile>
   <cf:UserInfo>
    <cf:Name>Name</cf:Name>
    <cf:Company>Company</cf:Company>
    <cf:Street>Street</cf:Street>
    <cf:City>City</cf:City>
    <cf:State>State</cf:State>
    <cf:Country>Country</cf:Country>
    <cf:PostalCode>PostalCode</cf:PostalCode>
    <cf:Phone>Phone</cf:Phone>
    <cf:Fax>Fax</cf:Fax>
    <cf:Email>Email</cf:Email>
    <cf:Message>Message</cf:Message>
   </cf:UserInfo>
   <cf:SessionComment>SessionComment</cf:SessionComment>
  </cf:CertifiedPDF>
  <cf:ColorManagement>
   <cf:Images>
    <cf:Enabled>true</cf:Enabled>
    <cf:RenderingIntent>ObjectDefined</cf:RenderingIntent>
    <cf:SourceICCProfiles>
     <cf:Gray>/Users/user/Library/ColorSync/Profiles/Source Grey.icc</cf:Gray>
     <cf:RGB>/Users/user/Library/ColorSync/Profiles/Source RGB.icc</cf:RGB>
     <cf:CMYK>/Users/user/Library/ColorSync/Profiles/SourceCMYK.icm</cf:CMYK>
     <cf:Lab>/Users/user/Library/ColorSync/Profiles/Source Lab.icc</cf:Lab>
    </cf:SourceICCProfiles>
    <cf:SourceOutputIntentOverridesICCProfiles>
     false
    </cf:SourceOutputIntentOverridesICCProfiles>
    <cf:TargetICCProfiles>
     <cf:Gray>/Users/user/Library/ColorSync/Profiles/Target Grey.icc</cf:Gray>
     <cf:RGB>/Users/user/Library/ColorSync/Profiles/Target RGB.icm</cf:RGB>
     <cf:CMYK>/Users/user/Library/ColorSync/Profiles/Target CMYK.icc</cf:CMYK>
     <cf:Lab>/Users/user/Library/ColorSync/Profiles/Target Lab.icc</cf:Lab>
    </cf:TargetICCProfiles>
    <cf:TargetOutputIntentOverridesICCProfiles>
     false
    </cf:TargetOutputIntentOverridesICCProfiles>
   </cf:Images>
   <cf:OtherObjects>
    <cf:Enabled>true</cf:Enabled>
    <cf:RenderingIntent>ObjectDefined</cf:RenderingIntent>
    <cf:SourceICCProfiles>
     <cf:Gray>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Gray.icm</cf:Gray>
     <cf:RGB>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/AdobeRGB1998.icc</
cf:RGB>
```

```
     <cf:CMYK>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/WAN-IFRA/
ISOcoated_v2_eci.icc</cf:CMYK>
     <cf:Lab>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Lab.icm</cf:Lab>
    </cf:SourceICCProfiles>
    <cf:SourceOutputIntentOverridesICCProfiles>
     false
    </cf:SourceOutputIntentOverridesICCProfiles>
    <cf:TargetICCProfiles>
     <cf:Gray>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Gray.icm</cf:Gray>
     <cf:RGB>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/AdobeRGB1998.icc</
cf:RGB>
     <cf:CMYK>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/WAN-IFRA/
ISOcoated_v2_eci.icc</cf:CMYK>
     <cf:Lab>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Lab.icm</cf:Lab>
    </cf:TargetICCProfiles>
    <cf:TargetOutputIntentOverridesICCProfiles>
     false
    </cf:TargetOutputIntentOverridesICCProfiles>
   </cf:OtherObjects>
   <cf:CMMEngine>LittleCMS</cf:CMMEngine>
   <cf:UseBlackPointCompensation>true</cf:UseBlackPointCompensation>
  </cf:ColorManagement>
  <cf:Fonts>
   <cf:UseSystemFonts>true</cf:UseSystemFonts>
   <cf:AdditionalFolder>/Users/user/Desktop/Collected Fonts</cf:AdditionalFolder>
    </cf:Fonts>
  <cf:Language>enUS</cf:Language>
  <cf:MeasurementUnit>Point</cf:MeasurementUnit>
 </cf:Process>

 <cf:ExportImage TaskID="My Render Job">
  <cf:InputPDF>
   <cf:InputPath>/Users/user/Desktop/Temp/Input.pdf</cf:InputPath>
  </cf:InputPDF>
  <cf:OutputImages>
   <cf:OutputPath>/Users/user/Desktop/Temp/Images/image%1.png</cf:OutputPath>
   <cf:SaveOptions FileType="PNG">
    <cf:Interlaced>true</cf:Interlaced>
    <cf:EmbedICCProfile>true</cf:EmbedICCProfile>
   </cf:SaveOptions>
  </cf:OutputImages>
  <cf:RenderOptions>
   <cf:RenderType>Separations</cf:RenderType>
   <cf:OutputColorSpace>DeviceGray</cf:OutputColorSpace>
   <cf:BackgroundColor>
    <cf:Gray>0.2</cf:Gray>
   </cf:BackgroundColor>
   <cf:RenderArea>BleedBox</cf:RenderArea>
   <cf:ImageDimensions>
    <cf:Width>600</cf:Width>
   </cf:ImageDimensions>
   <cf:IncludeEmptyPages>true</cf:IncludeEmptyPages>
   <cf:AntiAliasing>false</cf:AntiAliasing>
  </cf:RenderOptions>
  <cf:ActionLists>
   <cf:PrerenderActionList>/Users/user/Desktop/My Action List Collection/Add
 Watermark.eal</cf:PrerenderActionList>
   <cf:RestrictingActionList>/Users/user/Desktop/My Action List Collection/Select
 Artwork And Language Layer.eal</cf:RestrictingActionList>
  </cf:ActionLists>
  <cf:SmartPreflight>
    <cf:VariableSet>/Users/user/Desktop/My Action Variable Set Collection/Language
 Selection.evs</cf:VariableSet>
    <cf:JobTicket>/Users/user/Desktop/Temp/JobTicket.xml</cf:JobTicket>
  </cf:SmartPreflight>
  <cf:ColorManagement>
   <cf:AllObjects>
    <cf:Enabled>true</cf:Enabled>
```

```
    <cf:RenderingIntent>ObjectDefined</cf:RenderingIntent>
    <cf:SourceICCProfiles>
     <cf:Gray>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Gray.icm</cf:Gray>
     <cf:RGB>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/AdobeRGB1998.icc</
cf:RGB>
     <cf:CMYK>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/WAN-IFRA/
ISOcoated_v2_eci.icc</cf:CMYK>
     <cf:Lab>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Lab.icm</cf:Lab>
    </cf:SourceICCProfiles>
    <cf:SourceOutputIntentOverridesICCProfiles>
     false
    </cf:SourceOutputIntentOverridesICCProfiles>
    <cf:TargetICCProfiles>
     <cf:Gray>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Gray.icm</cf:Gray>
     <cf:RGB>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/AdobeRGB1998.icc</
cf:RGB>
     <cf:CMYK>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/WAN-IFRA/
ISOcoated_v2_eci.icc</cf:CMYK>
     <cf:Lab>/Applications/Enfocus/Enfocus PitStop Server 21/PitStop Server.app/
Contents/Resources/PitStopServerWatchdog.app/Contents/Resources/ICC/Generic Enfocus
 Lab.icm</cf:Lab>
    </cf:TargetICCProfiles>
    <cf:TargetOutputIntentOverridesICCProfiles>
     false
    </cf:TargetOutputIntentOverridesICCProfiles>
   </cf:AllObjects>
   <cf:CMMEngine>LittleCMS</cf:CMMEngine>
   <cf:UseBlackPointCompensation>true</cf:UseBlackPointCompensation>
  </cf:ColorManagement>
  <cf:Fonts>
   <cf:UseSystemFonts>true</cf:UseSystemFonts>
   <cf:AdditionalFolder>/Users/user/Desktop/Collected Fonts</cf:AdditionalFolder>
  </cf:Fonts>
 </cf:ExportImage>

</cf:Configuration>
```

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