Title:Printing with ScoreEngineDate:March 31, 2013Version:2.0Author:Jan de Kloe

### Introduction

ScoreEngine users who do not make PDF files from their music need to link and activate PCSEND to convert EPS to a hardcopy. The majority of users today will however make PDF's and post-process the created images in other desktop publication tools.

First you must have installed Acrobat Distiller and/or PDFcreator.

To do this use the Dispatcher and select Link profile > Link utilities.

To link either program you have two possibilities:

- When you know where it is click the white field and select the program via the common interface; or
- Let ScoreEngine find it for you by clicking the 'Locate' button.

The panel looks like this when you have established links:

coreEngine Dispate	cher - Link profile						
Return Dialects						Mi	inimize
Link 9	Score	PREF(-4), LIB, PSC	Lini	utilities	EPS	print options	:
SipEPS01 path		C:\Dev\VB\SipEps01\SipEps01.exe			<ul> <li>Stop after first fou Locate SIPEPS0</li> </ul>		Reset
seps4id path		C:\SCORE\seps4id\seps4id.exe			Locate seps4ic	l.exe	Reset
PDFcreator path	C:V	Program Files\PDFCreator\PDFCreator.exe	1	] ]	Locate PDFcre	eator	Reset
Acrodist path	C:\Progra	m Files\Adobe\Acrobat 10.0\Acrobat\acro	dist.exe	joboptions	Locate Acrobat	Distiller	Reset
PCSEND path		C:\PostScript\PCSEND.EXE		] .	Locate PCSE	ND	Reset
GhostView path	C:\Pi	rogram Files\Ghostgum\gsview\gsview32.e	xe	64-bit 🥅	Locate Ghost	/iew	Reset
							?
						R	leturn

#### **PDFcreator**

This is freeware and has a few other advantages – it will find the fonts by itself and automatically creates the correct paper size from information passed to it by the EPS file.

#### **Acrobat Distiller**

This program uses *joboptions*. These are definitions of particular paper formats. When you do not select any, it will use a standard.

Joboptions are kept in a file and you can have as many types of paper as you use.

Click the little button when you want to select a particular setting. The panel looks like this:

rn	e Dispatcher - joboptions for Acrobat Distiller		
m	By default, Acrobat Distiller uses the Standard joboptions. By selecting a path to a different joboptions file, you will force Acrobat Distiller to use those options.	Look in kr	nown paths
		Show list	Res
		V	iew file
		F	Return
			recum

The very first time you want to select a *joboptions* file, ScoreEngine needs to discover where these files are and there is the function 'Show list'. It goes through your online drives to establish the paths to these files and then lists them. Such a scan can take minutes depending on the size of your system. Here is an example of the scan result:

By default, Acrobat Distiller uses the Standard joboptions. By selecting a path to a different joboptions file, you will force		Look in know	n natha fin
Acrobat Distiller to use those options.		LOOK IN KNOW	n paulis liik
		Show list	Reset
elect one from this list	<b>.</b>		
ancel			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Extras\MAGAZINE Ad 2006 JPN.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Extras\PDFX1a 2001 JPN.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Extras\PDFX1a 2003 JPN.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Extras\PDFX1a 2003.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Extras\PDFX3 2002 JPN.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Extras\PDFX3 2003 JPN.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Extras\PDFX3 2003.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\High Quality Print.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\Oversized Pages.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\PDFA1b 2005 CMYK.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\PDFA1b 2005 RGB.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\PDFX1a 2001.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\PDFX3 2002.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\Press Quality.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\Smallest File Size.joboptions			
\Documents and Settings\All Users\Application Data\Adobe\Adobe PDF\Settings\Standard.joboptions			
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\High Quality Print.joboptions			
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\Octavo.joboptions			
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\0versized Pages.joboptions			
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\PDFA1b 2005 CMYK.joboptions			
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\PDFA1b 2005 RGB.joboptions			
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\PDFX1a 2001.joboptions		∀iew	file
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\PDFX3 2002.joboptions		V 1099	
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\Press Quality.joboptions			
\Program Files\Adobe\Acrobat 10.0\Acrobat\Settings\Smallest File Size.joboptions		Betu	
VProgram Files Vdobe VAcrobat 10.0 VAcrobat Settings Standard joboptions	-	Hetu	1171

You select a joboptions file by clicking on it. ScoreEngine remembers that until you change it.

As the scan is quite time consuming it remembers the folders where you keep these files. The next time you need to change the *joboptions*, use the button 'Look in known paths first', which avoids going through the entire system. The effect of a selection is that when Acrobat Distiller is called by ScoreEngine, it links the *joboptions* automatically. Remember to define within Acrobat Distiller where you keep the Score font definitions – Settings > Font locations ... > Add...

To select which of the two PDF makers you use (activate), select it from the Exec profile > Compatibility tab:

	Compatibility	Font embedding	Utilities	Lurics	Backup	Developmer
Peripherals					1	
System information			Keyboard			
This system detection You can put the c	ted 2 display monitors.	usic form on either monitor,		(EDTV		
or both on any sir	gle monitor, freeing the c	other for a different application.	100-QW			
				FR French (I	Belgium)	1
Number of monitors			7	-		1
	C 1	• 2	C QWERT	ZU DE German (	(Switzerland)	
	formation grant and					
Music form display						
	1.05	96 %				
			- System sound	ls		
Command form						
Command form	٦L	arge command form		System sound on ir	nformation messages	
		arge command form	Suppress		nformation messages	
Color scheme	C			output page	nformation messages	
Command form Color scheme C Blue on white C Black on white	C	ommand cursor	For each EPS	output page ND ? reator ?	nformation messages	
Color scheme		ommand cursor	For each EPS	output page ND ? reator ?	nformation messages	

When at this point you select both PDFcreator and Acrobat Distiller, the latter takes precedence.

Since both PDFcreator and Acrobat Distiller take EPS as input, specifics about EPS need to be passed to Score and Scorlas. This is done through EPS option files. In the DOS environment you selected those settings dynamically when prompted for it but the philosophy of ScoreEngine is to have this information 'canned'. In DOS you would have the file PRINT.SCR or some other file(s) with the .SCR suffix. The options READ and WRITE of an .SCR file when making EPS are suppressed.

Acrobat Distiller users normally have a one-to-one relation between EPS options files and joboptions.

As this .SCR suffix means a different thing in the Windows environment, ScoreEngine can take any name. The .TXT suffix is suggested but nothing keeps you from continuing the old Score suffix of .SCR.

ScoreEngine has a mechanism to remember all your EPS options files in a pool. You can add, delete, select and view these EPS options files with a panel in the Link profile. An example is shown here:

ScoreEngine Dispatcher - Link profile				
Return Dialects				
			Minimize	
Link Score	PREF(-4), LIB, PSC	Link utilities	EPS print options	
You can have as many preference files Each of those are in a text file, usually w EPS option files (2) in the pool:	llected in the EPS pool. le.			
C:\Dev\VB\ScoreEngine\A4.TXT C:\Dev\VB\ScoreEngine\PRINT.SCR			Click a file in the list to select it.	
			Add new file to pool	
Currently selected:				
C:\Dev\VB\ScoreEngine\A4.TXT			View/edit Delete from pool	
			Return	

Note that the EPS options files are used for Score, Score4, Scorlas, and Scorlas4 under ScoreEngine.

There are a few more things you should know before we leave the Dispatcher.

ScoreEngine has two ways of adding headers and footers to EPS files. One header option does not exclude the other.

# US paper size

In the EPS options file you can define US paper type headers and footers by setting the value to N (none), H (header), F (Footer), and B (Both header and footer).

The placement of these is defined by offsets from the top and bottom. A project name of up to 18 characters can be provided.

This is communicated to ScoreEngine via the Exec profile > Compatibility panel:

EPS options				
Score				
Item numbers & comments				
Tuplet font change 12				
Palatino-Roman				
Score & Scorlas				
Overwrite (EPS, PDF)				
Space suppression				
Embed fonts				
Exclude Base35 fonts				
Fix Bounding Box ?				
Call SipEPS01 ?				
Call seps4id ?				
Project header 🔽 A4 Header				
My Chopin project				
Header/footer offset .1 0.18				
Scorlas(4) uses the EPS option file.				
C:\Dev\VB\ScoreEngine\A4.TXT				

The header and footer are slightly different from the ones made by the DOS version in that the date field gives a correct format for dates later than 1999.

When the full file name is longer than the available space, the prefix is not shown.

#### A4 paper size

As the American header and footer are too wide for A4 paper (the standard in more than 60 countries), I have developed a header which takes the Project header from the same source but in addition has the license holder's name.

	SCORE File: ESCAR04.PAG	Project: My Chopin project	File date/time: 3/25/2013 4:28:12 PM	Jan de Kloe
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The place to request the A4 header is also in the Exec profile > Compatibility panel. The vertical placement is fixed for A4 size paper.

#### Score and Score4

Right click on the EPS button to make an EPS immediately followed by a PDF. A left click is identical to the PR command or the function key for print.

Type the XBUCKET command and drag a number of MUS files to the bucket symbol to let Score do the EPS's. Keep the ALT key while drag/dropping to force PDF's as well. You always have the option to send the EPS to a PDF maker and/or to the online printer via PCSEND.

Remember that the XBUCKET feature is more powerful than Scorlas. It allows you to exercise the 'item numbers & comments' option which, once you have the EPS file, it can be read back into ScoreEngine to reconstitute a MUS file. Also you can have the font of tuplets modified.

To remind you of all the settings for EPS/PDF production, an information panel is shown when you point to the EPS button. See the example:

ScoreEngine - v5.0.0.27 - SCORE.EXE			
File View Insert License About			
	? SH/Z Clear Position Minimize		
- Keyboard input			
Runtime options for Score	Runtime options for Score and Scorlas		
EPS item numbers (MUSinfo) = YES	EPS space suppression = YES		
Tuplet font change = NO	EPS embed fonts = NO		
(no font specified)	EPS exclude Base35 = NO		
EPS/PDF overwrite = YES	EPS Fix Bounding Box = YES		
A4 Header = YES	Call SipEPSO1 = YES		
Project name = My Chopin project Offsets: -1/0.18	Call seps4id = YES		
PSC folder = C:\LIB\	PDF made by Acrobat Distiller		
PFB folder = C:\PostScript\MyPFBs\			
OUTPUT	ine A4.TXT		
ROTATE No			
SIZE 1.000			
PAPER 8.27 11.69			
OFFSETS .50 .75			
FREEZE No			
RESOLUTION 1200			
LINE_width 8			
HEADER/FOOTER n			
MIRROR No			
SETSTROKE No			
MANUAL_feed No			
SETPAPERTRAY 0			
DESC 0			
Program status	Program file path		
Row/Column 1/1 0 Measurement INCHES SCORE.MUS	File size C:\Dev\VB\ScoreEngine\		
Score Serial # 3101073 Arrow incr. 1.0			
	Creator User file path		

The enabled printer symbol means the PCSEND was linked and activated. The PDF button when enabled indicated that a PDF maker was linked and activated.

#### **Scorlas and Scorlas4**

Though basically the function of these programs is taken over by the XBUCKET command, they are still supported. With the filename drop feature active (Dispatcher Exec profile, > Utilities), there is no more need to type anything – everything can be done with a minimum of mouse clicks.

All the information that would be prompted in a DOS environment is prepared once in the Dispatcher. After EPS files have been produced, the program asks you if you want to make PDF and to pass the EPS to PCSEND

when these features were linked and activated.

# Summary of EPS features for Score and Score4 (and XBUCKET)

*Item numbers & comments* – use this if you want your EPS file to contain the information which allows you to read it back with ScoreEngine to reconstitute a MUS file.

*Tuplet font change* – set this option if you need tuplet numbers to have a different font. Click the white box to select the font.

# Summary of EPS features for Scorlas and Scorlas4

Overwrite - when an output file exists it will give a warning first.

*Space suppression* – EPS file produced by Score and Scorlas contain quite a bit of unnecessary space. Remove these with this option.

*Embed fonts* – to assure that the EPS file contains the font definitions needed for subsequent applications, you may want to pass these by embedding them.

*Exclude Base35 fonts* – as most applications know the base 35 fonts, you may want to not embed those and just the ones outside this group.

*Fix Bounding Box* – the freeware Ghostview program EPSTOOL must be linked to ScoreEngine to activate this feature. *Call SipEPS01* – the function of this program can be activated if it was linked to ScoreEngine and the proper parameters were set in the Dispatcher (Exec profile > Utilities). This tool by Jan de Kloe interrupts staff lines when text such as fingering crosses them.

*Call seps4id* – the function of this program can be activated if it is linked to ScoreEngine. This tool by Thomas Weber fixes a particular problem with open spaces in Draw symbols.

*Project header/footer information* – see above.

### **Final note**

Before Version 27 of ScoreEngine it was not possible to have more than a single file with EPS options. Obviously this limitation needed to be lifted for professional users with more than one paper format. This has been done for Version 28. I am indebted to David Fetherolf of The Music Sales Group (Schirmer), New York who had the patience to explain the requirements for printing several paper formats.

(the end)