

Generic PostScript Printer for JACoW

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Agenda

- Why a PS Printer for JACoW?
- PScript5 Printer Driver
- JACoW.INF Setup File

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Why a PS Printer for JACoW?

- Installing and reconfiguring the existing Adobe Generic PS Printer is cumbersome
 - PPD file needs to be pre-installed or an un- and reinstallation of the driver is required
 - After installation printer options need to be changed (font embedding, paper size, PostScript level etc.)
- Adobe supplies no generic PostScript printer available for Vista and Windows 7 (support of NT/2k/XP/Vista/7 is desired)

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What is PScript5?

- The PostScript Printer Driver (PScript) is the Microsoft corporation standard printer driver for PostScript printers and PS driver development
- Co-developed with Adobe:
“The **Adobe Universal PostScript Windows Driver** Installer installs the latest version of the AdobePostScript (AdobePS) driver for each supported Microsoft Windows platform:
[...]
- **PScript 5: Windows 2000 or Windows XP**”

PScript5 Components

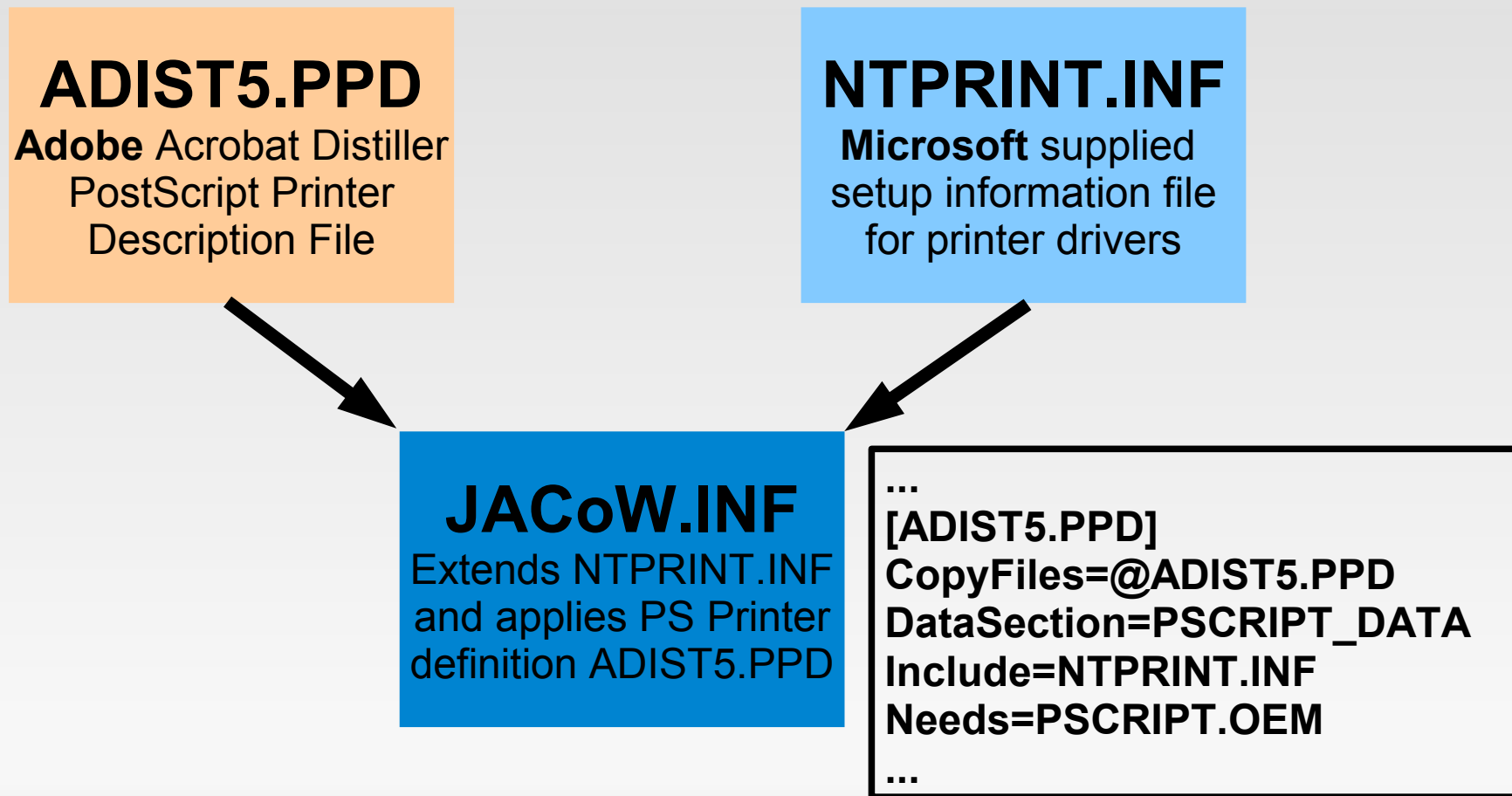
- PostScript Printer Description (PPD) File
 - Describes printer capabilities (like PostScript level, paper size, font substitution lists...)
- Printer User Interface (Optional)
 - UI dialog to configure printer options
 - Not needed if only default options are used
- Rendering Plug-In (Optional)
 - Customize rendering functions
 - Insert PostScript code at specific points

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JACoW.INF Setup Information

- JACoW.INF could be based on already existing setup files



Installing JACoW.INF

Name	Änderungsdatum	Typ	Größe
ADIST5.PPD	05.06.2001 12:55	PPD-Datei	17 KB
ConfigA4.dat	27.10.2009 17:34	DAT-Datei	9 KB
ConfigLt.dat	27.10.2009 17:34	DAT-Datei	9 KB
Inst_A4.bat	27.10.2009 17:27	Windows-Stapelverarbeitungsdatei	1 KB
Inst_Let.bat	27.10.2009 17:27	Windows-Stapelverarbeitungsdatei	1 KB
JACoW.INF	27.10.2009 16:10	Setup-Informationen	2 KB

```
D:\JACoW\JACoW_ADIST5_PScript5_Printer>Inst_A4.bat
Trying to install printer
"Adobe ADIST5.PPD on MS PScript5 for JACoW (A4)"
from "JACoW.INF".
rundll32 printui.dll,PrintUIEntry /if /b "Adobe ADIST5.PPD on MS PScript5 for JACoW (A4)" /f "JACoW.INF"
/r "file:" /m "Adobe ADIST5.PPD on MS PScript5 for JACoW"
Done.

Trying to reconfigure printer
"Adobe ADIST5.PPD on MS PScript5 for JACoW (A4)"
with options from "ConfigA4.dat".
rundll32 printui.dll,PrintUIEntry /sr /n "Adobe ADIST5.PPD on MS PScript5 for JACoW (A4)"
/a "ConfigA4.dat" g d u
Done.

Script finished.

D:\JACoW\JACoW_ADIST5_PScript5_Printer>
```

Name	Dokumente
Adobe ADIST5.PPD on MS PScript5 for JACoW (A4)	0
Adobe ADIST5.PPD on MS PScript5 for JACoW (Letter)	0
hp officejet 5500 series	0
Microsoft XPS Document Writer	0
PDFCreator	0

Conclusion

- Done
 - Proof of concept (maybe fits already for internal use)
- ToDo
 - Configuration options seem to be platform specific (exported using Vista can not be imported on XP)
 - Testing was only done on Vista and XP
 - If we would like to modify the ADIST5.PPD to fit our needs better we might run into copyright problems
 - Installing through batch files is ugly (an installer program would be a lot nicer)

Questions?

Questions?

References

- Microsoft PostScript Printer Driver
<http://msdn.microsoft.com/en-us/library/aa506075.aspx>
- Windows Driver Kit Version 7.0.0
<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=2105564e-1a9a-4bf4-8d74-ec5b52da3d00>
- Adobe Universal PostScript Windows Driver
<http://www.adobe.com/support/downloads/detail.jsp?ftpID=1500>