

Implementing JDF at a printshop

**What you should know, if you want to
introduce JDF in your shop**

Michael Mittelhaus

Prepress Consultant

www.mittelhaus.com

My way to JDF

- ★ Consulting in Prepress since 1994
- ★ Specialised on CTP and Workflow
- ★ Consulted more than 100 shops ,
Austria, Germany and Switzerland
- ★ Business changed to organizational
items the last 3 years

All information must be digital

- ★ If you implement CTP&digital workflow you need a different organisation
- ★ If you implement CTP&digital workflow you need different informations
- ★ You need a different flow of information
- ★ Need a different information system

Why is JDF necessary ?

- ★ Discussed information+organization for 3 years with many shops
- ★ No system, no solution available
- ★ JDF seemed to change the situation
- ★ What happened in reality?

Implementing JDF

- ★ 2002 Zürich based N+S: Need a new digital workflow and CTP system
- ★ Proposal: Include a JDF Interface from Prepress to MIS Hiflex, and vice versa
- ★ Compiled minimum requirements for this interop interface

Define your requirements

- ★ From MIS to Prepress: Job description customer data, no. of sheets, colors, etc.
- ★ From Prepress to MIS: Status of the job consumed time and material, etc.
- ★ Used requirements in negotiation, but did not contract them

Implementing JDF

- ★ Prepress vendors (Esko-Graphics+Creo) went into negotiation with Hiflex
- ★ Beta site contract was negotiated + signed, December 2002
- ★ Workflow+CTP was implemented in March 2003
- ★ JDF beta followed July-Sept. 2003

Interop Interfacing

- ★ **Creo installed Synapse link, Hiflex installed Hiflex Link**
- ★ **July-Sept. 2003 adjustments and SW updating**
- ★ **Running JDF since then**
- ★ **JDF Interface from Hiflex to MAN PECOM followed in October 2003**

Results from JDF








- ★ MIS creates Prepress jobs directly
- ★ Prepress sends job information directly into MIS
- ★ Number of consumed material is collected from prepress into MIS
- ★ No more written reports, information is real-time and more accurate

Results from JDF

kt	Kunde	Rech/Liefer	Unterauftrag	Memo	Creo	Creo_2
Auftrags-Nr.:	1'000	Kalkulation-Nr.:				
Auftrags-Dat.:	18.06.2003	Auftrags-Zeit:	17:42			
Bestellnummer:						

Auftr Info Kunde Info Kalk Info Prepress Auftrag erstellen: Nein

Status Pap.Bst Pap.Res Pap.Such Win.Res N+S

creo	Name	Job-Status*
	28968_SwissRe_Badges	 Endausgabe fertiggestellt
	28970_vortobel_Block	 Endausgabe fertiggestellt
	Ausbildung_ProPress	
	Creo Testjobs	
	Lack	
	Naturverlag	
	Neue_Jobs	
	28613_Offermappen ohne und m	 Erzeugt
	28614_NSQ INSider 04	 Erzeugt
	28618_Offermappe_Bucherer_	 Erzeugt
	28624_512 Plakate für Kunst	 Erzeugt

From prepress to MIS

PP Job Status

Status	Datum	Zeit
Angelegt	17.10.2003	8:52:55
Job Status	21.11.2003	10:26:08
Job Status	21.11.2003	16:55:04

Aufr Info Kunde Info Kalk Info

S Status B Pap.Bst R Pap.Res Pap.Such R Win.Res

PP Freigabe

JDF Typ	Status	Seiten-Bezeichnung	Datum (+)	Zeit
Freigabe-Info	Neue Seite	28933_UG_dk_kinder_p1.pdf	21.11.2003	10:28:55
Freigabe-Info	Neue Seite	28933_UG_dk_kinder_p2.pdf	21.11.2003	10:28:55
Freigabe-Info	Neue Seite	28933_UG_dk_kinder_p3.pdf	21.11.2003	10:28:56
Freigabe-Info	Neue Seite	28933_UG_dk_kinder_p4.pdf	21.11.2003	10:28:56
Freigabe-Info	Neue Seite	28933_UG_dk_fm_p1.pdf	21.11.2003	10:28:59
Freigabe-Info	Neue Seite	28933_UG_dk_fm_p2.pdf	21.11.2003	10:28:59

PP Arbeiten

Vorgang	Berechnung	System-Meldung	Datum	Zeit	Login	Bdata
Proof (BS Bogen)	Laut Auftrag	Normaltaetigkeit	21.11.2003	11:59:43	mac06	Ja
Proof (BS Bogen)	Laut Auftrag	Normaltaetigkeit	21.11.2003	11:59:44	mac06	Ja

Ausgabe 26.53 : Nachkalkulation:28933

Datei Gehe zu Suchen

Auswahl Drucken Neu lad. Statistik Anfang Ende zu Zeile zu Seite Vorher Suche Nachher

Groß Mittel Klein US-437

Gesamt :					1745.83
Material					
Material Nummer	Datum	Bezeichnung	Personal Nummer	Menge	Preis
182	29.10.	s/w Laserprint A3	21044	15	6.00
188	20.10.	Farbprint/kopie A3	Affolter, Erwin 26065	23	77.28
226	21.11.	Plot 70x100	Lindegger, Robert 0	1	5.00
226	21.11.	Plot 70x100	0	1	5.00
226	21.11.	Plot 70x100	0	1	5.00
226	21.11.	Plot 70x100	0	1	5.00
226	21.11.	Plot 70x100	0	1	5.00

To be improved

- ★ Have real Job information into prepress
- ★ Synchronize naming conventions
- ★ Need status information sheetwise
- ★ Decide which prepress information to use at which place (eg. Trapping)
- ★ Use JDF information in estimation

... more to know

- ★ More in Seybold Report
Vol. 3, No. 19 · January 19, 2004
- ★ .. much more requirements, but overall satisfaction
- ★ Very important to gather experience
- ★ Saves up to 30 min/day, only prepress
- ★ All JDF Interfaces: 400 hrs/year

Preparing another one

- ★ Web shop, 3 web presses, + sheetfed 450 employees, magazine printer
- ★ Question: How to get better results from prepress?
- ★ Answer: By improving the communication between the shop departments

How to improve communications ?

- ★ Proposal: Start to implement interoperability JDF Interfaces
- ★ Develop an all digital information system
- ★ Look for an appropriate JDF MIS
- ★ Dont' wait, start now!

What to do ?

- ★ Define the communication needs
- ★ Define it for all interdepartmental communication
- ★ For production planning: Define all needed steps of (technical) job description
- ★ Not only prepress, but press, bindery cutting, folding, glueing etc.

Define communication

- ★ How can you define a job, if you don't understand prepress?
- ★ Educate your production planners!
- ★ Make them understand, what prepress needs
- ★ Education is an alltime process!

Define communication 2

- ★ What do the planners need to know from production?
- ★ Define it with great care
- ★ Discuss controversial issues
- ★ Get a total list of information agreed

JDF Interfacing

- ★ Define the requirement
- ★ JDF can do a lot, but you must define, what you need
- ★ Once we finished our homework, we've got the definition of the JDF interop Interface content

Next stop: The vendors

- ★ Discuss with vendors their JDF timeline
- ★ Ask them concrete questions:
 - Sheet based status information ?
 - Support for stripping (JDF 1.2) ?
 - When could we start a Beta ?
- ★ Mixed experience: Does everyone really want to sell JDF ?

The information system

- ★ Who's to sort and organize the information request and transfer?
- ★ Will the commercial software be able to do so ?
- ★ Is the vendor able to create a JDF-MIS in time ?

The JDF MIS

- ★ Do we have to look for a different vendor for a JDF MIS ?
- ★ We will discuss PPI Printnet as well as AGFA's Delano
- ★ We're still in the process of defining the MIS requirements

Partial interface or full JDF workflow ?

- ★ Anyone ready for a full JDF workflow?
- ★ How quickly can „Elephants“ react?
- ★ Decision for partial interfaces
- ★ Presumably prepress
- ★ Hope to decide til summer

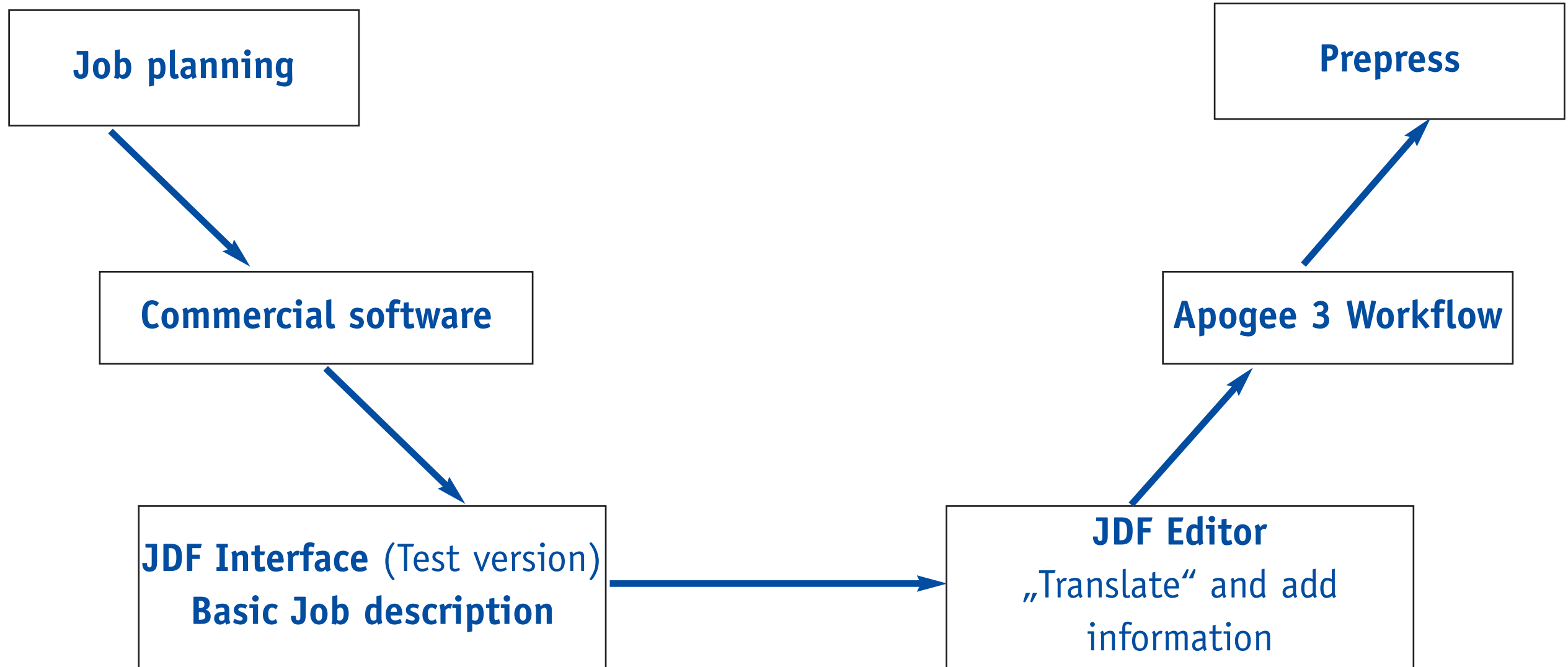
Have a trial

- ★ Wait for MIS and workflow vendor?
- ★ Try to read information from MIS
- ★ Try to put it into Apogee 3
- ★ IT: Which information do you need?

Have a test

- ★ Basic job data (job no., customer)
- ★ No. of pages, no. of colours, template?
- ★ Information is there, but not where prepress workflow expects it
- ★ No.of colours is needed sheetwise
- ★ Might need a „JDF Editor“

First JDF Workflow



Will it pay off ?

First Estimation			
MIS Information via JDF into Apogee			
	Worst case	Best case	
Per job	2	10	min
Per day	0,3	3,3	hrs
Per year	75	833	hrs
32 €/hr	2400	26.667	€
Possible savings per year			

Will it pay off ?

- ★ Careful calculation
- ★ Should payoff within a year or so
- ★ First interface is just the basis for more
- ★ Need to start and gather experience

Workflow Future

- ★ **The most important opportunity for further rationalisation is with the integration of the different production departments and a consequent digital information and management structure.**

Further information

www.seybold365.com/ams2004/services/ssm/index.php?s=default&p=presentations&stp=1079118072

Feedback to: Cynthia.Wood@mlii.com James.Smith@mlii.com

Feedback&Questions to mittelhaus@mittelhaus.com

www.cip4.org CIP4 Organisation

www.ngpppartners.org Website of NGP Partners from Creo

www.triplearc.com JDF based MIS system

www.media4theworld.com Consulting company in North-America

www.hiflex.de MIS Vendor from Germany

www.xmlspy.com/products.htm XML Tools

www.man-roland.de/de/p0097/p0098/p0098.jsp?suche=ok

www.heidelberg.com/hq/ger//Prinect/cip4.asp?ComponentID=5696&SourcePageID=11957#1

<http://jdp.oai.cc/> JDF Developers

http://h30011.www3.hp.com/Products/workflow/production_flow.html

Hp Workflow "Production Flow" for Indigo presses

www.mittelhaus.com German language, hopefully in english soon