

Training Documentation Prinect Production Manager 2021 - What's New

Revision 1.5





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What you should already know

We assume that you are familiar with the Windows[®] and Mac OS X° operating systems that are supported by this application.

A basic Production Manager Training is required to follow this documentation!

Additional Documentation

You can find this document and additional information in:

- Educate Center: <u>http://educate-center.heidelberg.com/ilias/</u> login.php?target=crs_1517&soap_pw=&ext_uid=&cookies=nocookies&client_id=HEI-e-Learning&lang=en
- Easy Sales Portal: https://hdmnet.sharepoint.com/sites/EasySales/Pages/Search.aspx#k=ProductArea%3APrinect#l=1033
- **Online Help:** <u>http://onlinehelp.prinect-lounge.com/Prinect_Integration_Manager/</u> Version2020/en/#t=Prinect%2FTitle_RoboHelp%2FTitle_RoboHelp.htm
- Prinect Operating Systems & Prinect System Requirements, Color Proof Pro Device list: <u>https://www.heidelberg.com/global/en/software/workflow/prinect_updates/</u> prinect_system_requirements.jsp

Important Information

Important information in the text is marked by symbols that are used as follows:



Warning: Contains information that must be taken into consideration to protect the user from injury.



Attention: Contains information that must be taken into consideration to prevent damage to hardware or software.



Note: Contains important general or supplementary information about a specific topic.



Note: This feature was implemented in Prinect Production Manager 2020.



Note: This feature was implemented in Prinect Production Manager 2020.10.

Before you start...

1 System - Cockpit

1.1 System Requirements

Because Oracle Java 11 is no longer free of charge, we have implemented **Java AdoptOpenJDK 11** for all Prinect Java components.

We can find the actual Prinect requirements in the Internet:

https://www.heidelberg.com/global/en/software/workflow/prinect_updates/ prinect_system_requirements.jsp

- Prinect Operating Systems & Prinect System Requirements
- Color Proof Pro Device List

The most important changes for Prinect 2021

- Renderer min 8GB => min 16GB
- Mac OS 10.11 / 10.12 is not supported for Signa & Cockpit anymore
- Mac OS 10.15 (Catalina) is supported for Prinect 2021
- Data Terminal to install via Full Installer from PMC chapter 4

Further informations we can get in the PMC Upgrade Assistant



Here we describe all special behaviors, which have to be done manually.

H Prinect Maintenance Center System							
i≡ Q							
Finect Know How	Start > Title_RoboHelp						
⊕ Upgrading Prinect 2015.00 to Prinect 2016.00	Version 2020.10						
⊕ Upgrading Prinect 2016.00 to Prinect 2017.00	Revision 1 0						
⊕ Upgrading Prinect 2017.00 to Prinect 2018.00							
⊕ Upgrading Prinect 2018.00 to Prinect 2019.00	Note: If you click on the hyper link or the following image, you will open the Prinect Know How start page						
⊕ Upgrading Prinect 2019.00 to Prinect 2019.10							
⊕ Upgrading Prinect 2019.10 to Prinect 2020.00							
 Upgrading Prinect 2020.00 to Prinect 2020.10 	-> Prinect Know How						
Before the Remote Upgrade							
After the Remote Upgrade							
	• • • •						

1.2 Prinect Maintenance Center

For new installations a PMC installer is always available in the Internet: https://www.heidelberg.com/global/en/software/workflow/prinect_updates/prinect_downloads.jsp

1.2.1 Time Scheduled Update and Upgrade

Motivation

Customer want to update or upgrade the Prinect System time scheduled.

Description

We have now 3 options in the pop up menu (3):

- · Start installation immediately after data transfer
- Wait after data transfer
- · Start installation automatically at a set time after data transfer

We can now define for update and upgrade a time schedule at night.



1.2.2 Computer Link from "Software Update" to "Prinect Supervisor"

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

We want to have a better navigation from "Prinect Update" tab to the "Prinect Supervisor", especially when we have a lot of server and computer in the PMC.

Description

We can now navigate from "Prinect Update" to ""Prinect Supervisor" from:

- System
- Computer



Result: The same system/computer is displayed in the "Prinect Supervisor" tab.

Program Extras V	/iew +	*	Language Help	Prinect Maintenance Center			HEIDELBERG				
@	Ş	(Å)	P .								
					1						
Prinect Supervisor	Prinect Supervisor										
💂 Computer		\mathbf{H}	Prinect Supervisor or	n HEIVM71412 (Version: 21.0.15	.0)						
REIVM71329	•		Components running								
🛃 HEIVM71331			Start Stop	Restart X Cancel							
	×										
HEIVM71350			Filter 🤍	x 🗌 Case	e sensitive 🗹 Hide Unli	censed Components					
	•		Name	Program	Level	Computer	Status				
HEIVM71393	•		Common Database SQL S	MSSQL\$HEIDB	Database	HEIVM71412	✓ Running				
	•		Common Database SQL S	MSSQL\$HEIDB	Database	HEIVM71413	✓ Running				
	- T		SQL Browser	SQLBrowser	Database	HEIVM71412	✓ Running				
HEIVM71443			SQL Browser	SQLBrowser	Database	HEIVM71413	✓ Running				
NEIVM71458	•		Message Service	HDActiveMQ.exe	Messaging	HEIVM71412	✓ Running				
REIVM71460	•		Master Data Service	HDMasterDataEngine.exe	MasterData	HEIVM71412	✓ Running				
			Config Service	HDCFGService.exe	PrimaryServices	HEIVM71412	✓ Running				
BO HEIVMPMC			Feature Flags Service	HDFeatureFlagService.exe	PrimaryServices	HEIVM71412	✓ Running				
WIEAPP01030	•		JDF Router	HDJDFStorage.exe	PrimaryServices	HEIVM71412	✓ Running				
WIEPC10793			JMS Server	HDLogEventStore.exe	PrimaryServices	HEIVM71412	✓ Running				
WIEPC11753	~		Log-Event Storage	HDLogEventStore.exe	PrimaryServices	HEIVM71412	✓ Running				
meron 755	~		Message Logger	HDLogEventStore.exe	PrimaryServices	HEIVM71412	✓ Running				
System (HEIVM71316)			JDF Storage	HDJDFStorage.exe	PrimaryServices	HEIVM71412	✓ Running				

1.2.3 Cleanup Unavailable Server and Computer

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

Unavailable computer should be automatically deleted in the PMC after a while.

Description

We delete automatically computer/server, when the computer/server is unavailable for 60 days. We delete all computer in the PMC when they are permanently in the condition "unavailable".



1.2.4 Software Request after Update or Upgrade

Motivation

We have to keep a Prinect System always actual and we want to monitor the current system state.

Description

A finished Update/Upgrade process triggers automatically a request for Updates by the Prinect Software Center. Additionally the Heidelberg Software Center gets all system changes immediately.

1.3 Cockpit Administration

1.3.1 New Options to Assign Colors for PPF Import

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

Packaging customers with ESKO workflow have very often no process colors like CMYK. They are using all colors as spot colors for the color bar, even names of process colors!

Example for color order in the PPF:

- 1. PLM 1234
- 2. Yellow
- 3. PLM 5678
- 4. PLM 9876

We have to handle that automatically in the workflow.

Description

Old: This was the PPF Import / Properties dialog in Prinect 2019.

File Edit View Tools Help	HEIDELBERG
Image: System Image: System <td< th=""><th>HEIDELBERG</th></td<>	HEIDELBERG
Normalizer Output Constant Security for defective PPF files Normalizer Output Constant Security for complete PPF files Normalizer Show Cluste Output Show Cluste Show Cluste Output Show Cluste Show Cluste	
Copy New Item New Group Delete	Save Apply Cancel

In Prinect 2020.10 we have 3 options to handle spot color for color bar assignment:

- 1. Allow spot colors only as of X, Z, U, V...
- 2. Allow spot color to BCMY this was available in Prinect 2019 too
- 3. Color Code Assignment in PPF Order

1 System - Cockpit

The "Order" works with two of these options in combination!

Properties					x		
PPF import *							
Attribution rules Back	▶ Basic configur	ation					
ESKO-Separated	▶ Transformations						
Pront PressCenterDefaultOutput ScreenEquips	▶ Transfer graph						
Characteristic curves	Color Code Assignment Method for Third-party Workflows						
Processes	Color code as	signment					
─ □ CD74-6P3L-DT ─ □ GOSS	Method	Color Code Assignment in PPF Order	- Order	BCMY			
- SM52-5P2-ANI	Print Order –	Allow spot colors only as of X, Z, U, V,		BCMY			
- C XL105-10P6-IC - C XL105-6L - C XL105-6L	Print Order	Allow spot colors for BCMY Color Code Assignment in PPF Order		СМҮВ			

Example for "Allow spot colors only as of X, Z, U, V..."

Order is inactive

- 1. PLM 1234 => X
- 2. Yellow => Y
- 3. PLM 5678 => Z
- 4. PLM 9876 => U

Example for "Allow spot color to BCMY"

Colo	or Name	=> Order: BMCY	=> Order: CMYK		
1.	PLM 1234	=> B	=> C		
2.	Yellow	=> Y	=> Y		
3.	PLM 5678	=> C	=> M		
4.	PLM 9876	=> M	=> K		

Example for "Color Code Assignment in PPF Order"

Colo	or Name	=> Order: BMCY	=> Order: CMYK		
1.	PLM 1234	=> B	=> C		
2.	Yellow	=> C	=> M		
3.	PLM 5678	=> M	=> Y		
4.	PLM 9876	=> Y	=> K		

1.3.2 Job Directory for Signa Gang Server Jobs

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

Until Prinect 2019 all Gang Server jobs were created in the directory "SignaGangJobs".

File Edit View Job Tools Help III								H≣ID≣	LBERG	
🥔 Job	list								>[< [[] 😵	
»	💳 🗋 Job Group 🌲						Classic	✓ Find	٩	
	Job Number	¢	Job Name 🗘	Job Status 🗧	Job Flags	Processing Status	Corkflow Status		🗘 Job Note 🚌	
	D PPF-2019	(5 10)								
	D PPF-2020									
	Products	(2 54)								
	🖨 SignaGangJobs	(0 18)								
	18-07-1		Sammelauftrag-1	Suspended	\$ *	👍 Warning	🔰 🔮 🔍 🍭	🍳 🧮 🍬 🖉 🖉 🌛		
	18-08-01-1-1		Signa Gang Job	🗹 Finished	\$ 2		📑 🔮 🔍	🍳 💐 🖉 🖉 🗸 🌛		
~	19-08-08-1		Gang Server Job	🗹 Finished	\$ *	🔘 ок	👔 🔮 😂 🖄	10 🔜 🖉 🖉 🖉 🌛		
~	19-08-09-1		Gang Server Job	▶ Idle	82	4 Warning	📑 🔮 🙈 🐔	0 🗟 🖉 🖉 🖉 🌛		
	19-08-18-1		Gang Server Job	▶ Idle	* *	Ок	👔 🔮 💐 🖏	0 🗷 4 🖉 4 🕹		

To increase the handling of Gang Server jobs customers want to define directories dynamically.

Description

In the JDF Import settings we can define dynamic job directories for different workflows.

The Job Service now respects the Signa Station directory for automatically created Gang Server jobs.

File Edit Vie	ew Tools Help * 🔐 🛱 🗐	}- ⊡				HEIDELBER	G
Overview			2 JPF .	JDF import			
Currently Used JDF Level:	4. JDF Level 2: All Data		v (i)				
JDF Communication	Folder Structure	ated Job Master data	JDF Data Additions	Change Order			
Workflow Profile:	Default Profile (MIS)	Web-to-Print –	Product —	Prinect Portal —	CIP3-PPF •	- SignaStation -	
1st level:	MIS-\$Date(yyyy)	W2P-\$Date(yyyy)	Product-\$Date(yyyy)	Portal-\$Date(yyyy)	PPF-\$Date(yyyy)	GangJobs-\$Date(yyyy)	
2nd level:	\$Date(MM)	\$Date(MM)	\$Date(MM)	\$Date(MM)	\$Date(MM)	\$Date(MM)	
3rd level:							
4th level:							
5th level:							
Preview:	ভী PTJobData_Jobs ↓ ভী MIS-2020 ↓ ভী 04	S PTJobData_Jobs ↓S W2P-2020 ↓S 04	S PTJobData_Jobs ↓ S Product-2020 ↓ S 04	বী PTJobData_Jobs ↓ বী Portal-2020 ↓ বী 04	S PTJobData_Jobs ↓ S PPF-2020 ↓ S 04	ি PTJobData_Jobs ↓ ক্রি GangJobs-2020 ↓ ক্রি 04	
The following variables	can be used for generation	of a group name:					
SD-ate(yyyy-MM-dd) \$CustomerID \$CustomerName \$CustomerNickName \$JobID	Current date, but Customer ID Customer Name Nickname Job Number	can be formatted via a temp	late, e.g. \$Date(yyyy-MM-dd) -	→ 2020-04-01			
	D D+-						
							Save

1.3.3 CDM Device - Fine Tuning of Press Performance Parameters

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

For Web2Print or CSV workflow we do not have quantities and times for "make ready" and "good production" like in a MIS JDF.

Example: A 1-color job would get the same "make ready time" and "waste" as a 6-color job.

Description

When the Import defines to calculate "Quantities and Processes" the "Planning Assistant" would...



... take the "Performance Parameters" of the "CDM device" to calculate times and waste.

Device name * XL10			
Device ID * 4205			
Device class She			
Connection Dire	t connection of the machin	e	-
Contents of operations list Sho	v workable and scheduled	operations	-
Time Recording Modes			
Book Unscheduled Only to Job			
Assigning functions Assistant Operator Multiple operator			
Performance Parameters			
Fixed basic time for setup per ope	ation 5 🏺	Minutes	
Average Production Speed	14,000	units/h	
Maximum Production Speed	18,000 🖨	units/h	
Fixed waste per operation	80 🛢	Copies	
Variable waste per operation	1.1	% of the target quantity	



We can calculate detailed times and waste for different ink units, defined by used job colors.



Note: For MIS Import we should never activate to calculate "Quantities and Processes" in the JDF Import, because we would overwrite times and waste from MIS!

1.4 Templates

1.4.1 Prepare Versioning - Set CMYK White to Knockout

Motivation

Normally we can set "CMYK White to Knockout" in Color Conversion, but for versions we should not change the original content at the beginning, because the Text layer would knockout the base layer.

For version jobs we should disable this feature in Prepare / Color Conversion and do this in Prepare Versioning.



Description

When it is really necessary to set a white text for versions to knockout, we can do this in the Prepare Version sequence now - differences are displayed in the Versioning Report.

This feature is constantly available in the PDF Toolbox / Versioning Assistant.

Prepa	are (P	Prepare)							
-	~	am 🦗 Versionierung am	AllPreflights	·					
Dies Der Die I E	ser Be Versi Beart instei	learbeitungsschritt wirkt nur auf Seiten, die 4 ilons-Anteil wird bei den Auftragseinstellung rbeitung der Seiten der Hauptversion muss ellungen <u>Aktionen</u> Berichtsweser	einer Version zugeordnet sind. gen in der Spalte "Typ" der Liste der Fart zuerst erfolgen und abgeschlossen sei n	ben als "Versions-Anteil," bestimn n, danach können die Seiten der üb	nt. rigen Versionen bearbeitet werd				
Ak	tione	en							
	4					Medien-Rahmen			
	4								
~						Endformat-Rahmen	-	bei 72.0	🔻 dpi
						Endformat-Rahmen		bei 72.0	
8	8	Wenn Unterschiede auftreten							
~		Auftrennen in Basis und Version							

1.4.2 Preflight - Respect or Ignore PDF Color Order

Motivation

Especially for APSC it is very important to know the color order for stretching the Tiff-B files.

Art Pro PDF files can have a private tag for color order and we have respected this since Prinect 2019. When the customer wants to ignore this order it should be possible to disable this behavior.

Description

The default is identical to the old behavior - take over color order when possible. When we disable this feature we ignore the PDF color order from Art Pro PDF files.



1.5 Job

1.5.1 Pages - Display of the PDF/X-Output Intent

Motivation

Customers want to know about PDF/X details and output intent.

Description

In the column "PDF/X Details we have only shown the PDF/X version, now we display the PDF Output Intent.

	File Edit View Jo	h Tools Help ∯) ⊡ - M ⊑				HEIDELBER	RG
2	100024 × +	Dave Number 400031 - Customer Manas Parlin				× >	
	Product Description	Page rumber 100024 Customer name bernin Documents Pages Imposition	P	o Plates	Scheduling Press Approval	Print Digital Pr	ange Order
		Tame -	Assi \$	PDF/X Details 🗘 🗘	Page Assignm Page Colors / 1up Col \$ Modification D	ent ▼* <i>Find…</i> ate ≎ TrimBoxOffset ≎ T	م rimBox 🚌
	Submit to:	Lisboa_x3_Newspaper.pdf	0	Zeitung_QUIZ_03.01V1.icm	CMYK 01.04.2020 1-	4:50:28 9,9 / 11,3 mm (TrimB 2	209,9 x 2 📥
		PerfectBound-50Pages4C-CoverMontage210		PSO Coated v3	CMYK 10.03.2020 1	1:02:32 8,8 / 8,8 mm (TrimBox) 4	426,0 x 2 =
×		PerfectBound-50Pages4C-CoverMontage210		PSO Coated v3	CMYK 10.03.20201-	1.02.32 8,878,8 mm (TrimBox) 4	426,0 X 2
lob lis		PerfectBound-50Pages4C-CoverMontage210		PSO Coated v3	CMYK 10.03.2020 1	102:32 10,3 / 10,3 mm (Trim 2	210.0 x 2
7		PerfectBound-50Pages4C-CoverMontage210			CMYK 10.03.2020 1	1:02:32 10,3 / 10,3 mm (Trim 2	
		PerfectBound-50Pages4C-CoverMontage210		PSO Coated v3	CMYK 10.03.2020 1-	1:02:32 10,3 / 10,3 mm (Trim 2	210,0 x 2 👻

1.5.2 Colors - Spot Varnish & Full Varnish



Note: "Spot Varnish" and "Full Varnish" are varnishes for a "Coating unit":

• **Spot Varnish** = a special varnish flexo plate with partial varnish areas: These plates are job specific and must be produced.

• **Full Varnish** = a full area flexo plate or a rubber plate: These plates are available for all formats and are not job specific.

Motivation

In packaging print houses Spot Varnish plates are very often available in an archive.

The press operator should know at the PressCenter if it's Full Varnish (always available) or a Spot Varnish and where to find it in the archive.

Description

A varnish plate for a coating unit can be defined manually or by MIS.



Note: It is possible to manage varnish plates in the Prinect Business Manager Stock Management. It is planned to implement that the Tool ID for a varnish plate should be in use as the Plate ID in Prinect (not implemented yet: 09.06.2020).

In Prinect 2021 we have only "Varnish" as a "Target" available in the global job colors.

In Prinect 2020 we had "Spot Varnish" and "Full Varnish".



In the plate separation properties we can differentiate, if it is a Spot Varnish or a Full Varnish. The default is Full Varnish, when a varnish for a coating unit is defined in the color settings.



When we change the varnish to a Spot Varnish, the UI is asking for a "Plate ID". We are using the Plate ID as a reference to the plate archive.

100054	× +							*	× 🗉 🖻
Overview	Name: Varnish Job Number: 100054	Customer Name: Heidelberger	Druckmaschinen AG					🛧 New	▶
Colors	Documents Pages	2 Imposition	of Plates	0	Schedulir	ng Press Approv	ral F	ri Ch	ange Order
re 😮	Plates Find.	Q	Color List: All Color	Colo	irs 🧭	Materials	Column s	set: None	~
Submit to:	🔚 Separation	Assign Plate ID	×	ıe	Source	Target	Marks	Туре	Usa 🖽
🍖 XL75-Plat	▼ 🕫 L0100054 3	(10)	~	ck	🐨 Job	Output	Automatic	Normal	Printir 🔺
	👻 🥩 ST100335 (Poster Spot Varnish)	(5) (aloss)" eine eindeutige	"Aqueous coating Plattenkennung an		🐨 Job	Output	Automatic	Normal	Printir
	▼ 📁 Single-sided	(5) Blate ID: W2not 7500	5	ge	🐨 Job	Output	Automatic	Normal	Printir
	Black (No content)	Plate ID. Vopuer 500			🐨 Job	Output	Automatic	Normal	Printir
	Cyan (No content)			Je	🤜 MyVa	Spot Varnish 🚽	Automatic	Transpar	Coatir
	Magenta (No content)					Output			
	Yellow (No content)					Output (every versio	n)		
	Aqueous coating (gloss) (No cont	ent)				Process			
•		(5) 6	OK Cancel			Ignore	=		
	▼ 💋 Single-sided	(5)				Snot Varnish			
	Black (No content)					Black			
	Cyan (No content)								
	Magenta (No content)								
	Yellow (No content)								
	Aqueous coating (gloss) (No cont	ent)							
							-7-		
+	Selection: 10 of 10 Separations					Close	Sav	e R	Refresh

1 System - Cockpit

A Spot Varnish must have a Plate ID (3), a Full Varnish does not need a Plate ID (4).

Only in a MIS workflow there is a Plate ID for printing plates defined in the Cockpit. In a manual workflow we do not have a predefined Plate ID.

🔮 100054 ×	+		× 🗏 🛄 🗳
Overview Nam	e: Varnish Job Number: 100054 Customer Name: Heideli	berger Druckmaschinen AG	🔵 Modified 🛛 😕 🔳
Colors	Documents Pages Imposition	Proof Plates Scheduling Press	Approval Pri Change Order
8	💼 🕫 Layout 🗘 🍕 🧬 Sheet 🗘 🍬 🍠 Surface 🗘	Plates	ע * <i>Find</i> ב
	Separation 🗘 Stat	us 💠 Plate Size 🗘 Plate ID 🗘	Plate Number 💲 Plate Code 🖽
Submit to:	🔽 🕫 LO100054 (10) 🔘		
🍖 XL75-Plate	🖥 🚽 🥩 ST1 00335 (Poster Spot Varnish) (5) 🔵	745,0 x 605,0 mm	
	👻 🕫 Single-sided (5) 🔵	745,0 x 605,0 mm	
	Black (No content)	745,0 x 605,0 mm 10005410033500010001	
	Cyan (No content)	745,0 x 605,0 mm 10005410033500010002	
	Magenta (No content)	745,0 x 605,0 mm 10005410033500010003	
	Yellow (No content)	745,0 x 605,0 mm 10005410033500010004	
	Aqueous coating (gloss) (No content)	745,0 x 605,0 mm VSpot-7500 3	
	👻 🌮 ST100336 (Poster Full Varnish) (5) 🔵	745,0 x 605,0 mm	
	🗸 🔻 😂 Single-sided (5) 🔵	745,0 x 605,0 mm	
	Black (No content)	745,0 x 605,0 mm 10005410033600020005	
	Cyan (No content)	745,0 x 605,0 mm 10005410033600020006	
	Magenta (No content)	745,0 x 605,0 mm 10005410033600020007	
	Yellow (No content)	745,0 x 605,0 mm 100054100 <u>33600020008</u>	
	Aqueous coating (gloss) (No content)	745,0 x 605,0 mm 4	



Important: Since Prinect 2020 we have implemented the "Varnish Application". It is necessary to define "Usage - Coating Unit" **AND** "Coating - selection of a defined varnish".

Only with a "Coating" definition in the Cockpit...

		Existing Colors 👻				Output Profil			×			
	Color	Name	Source	Target	Marks	Туре	Usage	Coating		М	Y	К
ler «		🔵 Black	🐨 Job	Output	Automatic	Normal	Printing Unit					100,0
tore		🔵 Cyan	🐨 Job	Output	Automatic	Normal	Printing Unit		100,0			
Prin		🔵 Magenta	🐨 Job	Output	Automatic	Normal	Printing Unit			100,0		0,0
¥		O Yellow	🐨 Job	Output	Automatic	Normal	Printing Unit					0,0
		O MLS	🐨 Job	Output	Automatic	Transparent	Coating unit 🚺	Aqueous High Gloss Varnish	2 0,0	100,0	0,0	0,0
		ProofColor	🥩 Job	Output	Automatic	DieLine	Proof					0,0

...the PressCenter displays a varnish icon at the job and a varnish definition in the coating unit!



1.5.3 Layout - Version Layout Import with Page List for Product Parts

Motivation

Since Prinect 2020 we can create separate page lists for every MIS defined product part - necessary for hard cover book production. It would be nice to do this for version jobs too.

Description

In the JDF Import we can define for Signa Server how to create layouts and product parts.

File Edit View Tools Help			
▣ ╝ <mark>╢</mark> ╔╓			HEIDELBERG
	2	DF import	
Currently Used JDF Level: 4. JDF Level 2: All Data	t Joh Master data	ta Additions Channe Order	
Workflow Profile:	Default Profile (MIS) ————————————————————————————————————	Web-to-Print —	CSV Import — +
Start Job Immediately:			
Use Layouts but not Processing			
Combine Several Layouts:	✓	✓	
Complete layout: 4	Always Create Product 🗸	Complete without Prod 🗸	Complete without Prod 👻
	Never Complete without Product Parts		
Sequences	Create Product Parts Only for Bo	, ook Production	
Combine Several PDF Qualify and Prepare:	Always Create Product Parts		

In Prinect 2021 we can create page lists for every product part of versioning layouts.



1 System - Cockpit

1.5.4 Workflow Step "Scheduling"

Motivation

MIS Customers want to have the information about job scheduling.

Description

In Prinect 2021 we have a new standard milestone "Scheduling". It is possible to disable this Milestone in "Cockpit > Administration > Workflow Steps".



After planning all operations in the Prinect Scheduler...



... the milestone is automatically reached.



2 Renderer - Shooter

2.1 Renderer User Interface

Motivation

In a Cloud based environment the Tiff-B has to be produced at the CTP Device / Press, because the Tiff-B files are too big for Internet transfer. For this reason we have an own Renderer UI.

Description

After installation / Upgrade to Prinect 2021 the environment variable "HD_RND_MODE" has changed:

- "FULL" Renderer UI active
- "LEGATHY" Renderer UI inactive



In the Supervisor the "PrinectRenderer - HighRes User Interface Service" is displayed.

DRUPWF00040 (DRUPWF00040) 🔀								
Prinect Supervisor auf DRUPWF00040	Prinect Supervisor auf DRUPWF00040 (Version: 21.0.13.0)							
Komponenten laufen	Komponenten laufen							
Starten Stoppen Stoppen X Abbrechen								
Filter 4 rend	× Groß-/Kleinschreibung bea	ichten 🔄 Unlizenzierte k	(omponenten ausblenden					
Name Programm Level Computer Status Nachricht								
Prinect Renderer HighRes HDProcessSupervisor.exe ApplicationProcesses DRUPWF00040 🗸 Wird ausgeführt								
Prinect Renderer HighRes UserInterface Service	HDRNDUIService.exe	ApplicationProcesses	DRUPWF00040	✓ Wird ausgeführt				

2 Renderer - Shooter

		Heidelberg Prinect Cockpit 🛛 🗸				Ð	Prinect Renderer			- 🗆 X
		Heidelberg Prinect Common 🗸 🗸	E.	Σ	2			b 🔩 ? i	1	HEIDELBERG
		Heidelberg Prinect Licensing 🛛 🗸	Server Manager	Windows PowerShell	Windows PowerShell ISE					
	63	Heidelberg Prinect Maintenance C							Server Selection	
		Heidelberg Prinect Maintenan $$	1 1	1						
		Heidelberg Prinect Renderer 🔷	Windows Administrativ	Task Manager	Control Panel					
	H	Color Proof Pro					O IP Number			
	(CPPro Working Folder	-	4	- E		 Available server 	Computer Name DRUPWF00040	2 10.55.188.52	
	+I	Drive Monitor	Remote Desktop	Event Viewer	File Explorer					
	(H	Heidelberg Remote Service								
	H	Prinect Renderer UI								Refresh
	(Proofing Engine Manager								
	H	Renderer Backup								
8	K	Screening Editor					Not connected			Connect
ŝ		Speedway Engine Manager					State Information:			Activate Window
		Tiff-B Engine Manager								Go to Settings to activ
Ф		Heidelberg Prinect Signa Stati 🗸								
-	Q	D 🤶 🌖 🚍	2 ⁹	₩						~ 憛 <

When we start the Renderer UI from the desktop icon or via Windows Start menu...

... the same log in dialog as for the Shooter pops up.



The Renderer UI looks very similar to the Shooter 2 UI.

🔁 Prinect Renderer - [10.55.188	3.52 - Local\Admin]					;	×	
🔜 I 🔤 - I 🗔								
	All device types 💌 No dev							
🖉 Incoming Job List	× • • •	🕫 Active and Finished Job List			E 80	betails 🛛 🖓 🖷		
			default 🔽	Find Job Number	ସ N	o job or more than one job selected.		
			default C Job Name	Find \$ Job Number				
State Information: 12:44:55 03/31/20 Clier 12:37:15 03/31/20 Print	nt connected to Prinect Renderer se ect Renderer is licensed.	iver						

Even the main menu is identical to the Shooter 2, except for devices

- 1. Jobs incoming, running and finished jobs
- 2. Depot Jobs in "Archive"
- 3. Devices Tiff-B Devices, Tiff Devices, Direct Speedway Connection, Proofer Devices
- 4. Administration similar as Shooter 2

2 Prinect Renderer - [10.55.188.52 - Local/Admin] -						
⊡ ⊡- 山 ≒, ? i 1 2 3 4	HEIDELBERG	;				
Administration						
Server Selection Drive Monitor Users E-mail						
System Preferences JDF Portal MDS						

A running job, started from the Cockpit with an Imposition Output template.

The sheet thumbnails are immediately visible when the job comes into the UI, because we are using the thumbnails of the Cockpit => Thumbnail generation can be unselected in the Imposition Output template.



2 Renderer - Shooter

The location for finished jobs and the sub dialogs are also identical to the Shooter 2 UI.



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Note: The Renderer UI is Java based only - we do not have a Web-UI at the moment.

Note: The default to keep jobs does not delete rendered jobs! This can stop the system, because the disk is full.

Prinect Renderer - [localhost - Local\Admin]								
	🎭 ? i							
Back	DF Prinect/JDF Configuration							
		- Theorem contiguration						
Spool Folder:	E:\Renderen\SpoolDir	Browse						
Delete Job After	7 Days 0 Hours							

We should change the defaults to delete jobs automatically.

Prinect Renderer - [localhost - Local/Admin]									
	🔩 ? İ								
Back			Prinect/JDF Configuration						
Spool Folder:	E:\Renderer\SpoolDir		Browse						
Delete Job After	0 ♥ Days 1 ♥ Hours								

2.2 Renderer Backup & Restore

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

We should have a backup for the Renderer to save all devices and settings.

Description

We can find the Renderer backup in the Windows Start menu. The backup needs around 1 minute.

	Heidelberg Prinect Portal Local		🕂 Prinect Renderer Backup 🗕 📼 🗙
	Heidelberg Prinect Renderer		
	H Drive Monitor Event Viewer	File Explorer	Renderer Backup
	Heidelberg Remote Service		Save
۲	Contraction Proofing Engine Manager		ator toocuments (heriderer_Savednies_04012020.1pm) browse 2 Save
Ľ٩	H Renderer Backup		
	Screening Editor	This PC	Restore
	Speedway Engine Manager		Restore
<u>نې</u>	Tiff-B Engine Manager	Command	
Ф	Heidelberg Prinect Signa Station V	Prompt	Close
	Heidelberg Prinect WebToPrint V		
	P 🛱 📥 💷 🍭 р 🖄 🔀 🌔	o 🖷 🔂 🕂	

The Backup file...

📋 🛃 📙 🖶 Documer	nts							-	x
File Home Share	View								~ 🕐
← → • ↑ 🖺 > H	EIVM71412 →	Documents >				~ ē	Search Doc	uments	Q
	^	Name	Date modified	Туре	Size				
Quick access		SQL Server Management Studio	09.01.2018 09:17	File folder					
		Visual Studio 2010	12.04.2018 04:15	File folder					
neipc40500	×	Visual Studio 2015	05.02.2019 08:06	File folder					
💻 heiapp00322	*	Renderer_SavedFiles_04012020.hprh	01.04.2020 07:57	HPRH File	190.227 KB				
💻 heivm71412	*	L							

... can be restored.

Ħ Prinect Renderer Backup	-		x
Renderer Backup		-	Η
Save	0 hada	Drawaa	
Files saved	U.npm	Save	
Restore		1	
C:\Users\Administrator\Documents\Renderer_Sa File Details	vedFile	Browse	
Created on: HEIVM71412 Created by: Administrator Creation Date: 01.04.2020 07:57:10 Prinect Renderer Version: 20.10	L	2	
	[Close	

2.3 Adobe PDF Print Engine 5.3

Motivation

We always have to support the newest APPE to handle the newest PDF versions.

Description

The APPE 5.3 can handle PDF 2.0

2.4 Shooter 2 Web UI

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

A lot of customers have complained about a missing Web UI to control the Shooter 2.

Description

We have implemented a Web UI to control the Shooter remotely on Mac and Windows computers. We are using the port http://"Shooter2Computer":8080

User/Password: Admin/Admin or User/User

$\leftarrow \rightarrow \mathbf{C} \Delta \mathbf{A} \text{Not secure } \mid 1 \rightarrow 1$	8080/#/login	
Shooter 2	Shooter 2 User Name: Admin Password: ••••• Login	

The Shooter Web UI is similar to the Java UI of the Shooter or the Portal UI for digital devices:

- 1. Incoming jobs waiting
- 2. Active jobs running or queued for running
- 3. Finished jobs successful or aborted
- 4. Details preview by job selection
- 5. Device status with material counter

🞯 Shooter	2						Admin	. Ö	1 🔹 K	⊧ ?	HEIDELBERG
Incoming Job Lis		•	Active Job List				9	De	etails		?
► & II	× 🗊 :	Q ⊞					۹ 🖽	1 🖉			
ID	Job Name	Status		Job Name	Status	Order	Job Number				4
D 1	Instruction IS25	suspended									
D 2										1 <u>of 1</u>	> ⁻
D 10			۲.			0.40	2 3 31	•	Suprasette		
D 15			Jobs per page 5	<u> </u>					D74 745v660 ·		
			Finished Job List				9		SM102_1030x79		
		🖊 suspenaea					۹ 🗉	۱ ا	- KL146_1460x117		
				Job Name	Status 🔻	Job Number 🔻	Color	^)	KL163_1630x132		
			C1 3	20Pages Brochure P2020 Renderer) 5	KL106_1055x811 SM52_525x459 :		
			L 4	20Pages Brochure P2020 Renderer				\$	SM102_1030x77		
4		•					,				
1 - 5 of 27 I <	< > >I		Jobs per page 5	•		1 - 5 of 35	< > >I				

2.5 Color Proof Pro 7.0



Motivation

At the moment we need the Color Toolbox software and an external measurement device to generate ICC profiles and to optimize them for Color Proof Pro.

For a proofer with an integrated measurement device we shouldn't need that.

Description

In Prinect 2021 we have implemented ICC profile generation and optimization for proofer with an integrated measurement device.

- Renderer provides the software components, which are necessary for the automatic creation and optimization of profiles
- · Standard parameters are used for the calculation of the profiles

2.5.1 Profile Creation using Color Toolbox - Review

The profile creation needs several steps in Color Proof Pro and Color Toolbox.

CPP = Color Proof Pro, CT = Color Toolbox

- 1. CPP Create a Base Linearisation (EPL)
- 2. CPP Print and Measure the profiling chart
- 3. CT Load measured data in Color Toolbox
- 4. CT Create Profile
- 5. CT Save the created profile to the color proof pro working directory
- 6. CPP Connect profile via profile connector

2.5.2 Automatic Profile Creation with CPP only - New

This is only possible with a proofer with an internal measurement device!

- 1. CPP Create a Base Linearisation (EPL)
- 2. CPP Define a Media name (ICC Profile name)
- 3. CPP Choose a Profiling chart
- 4. CPP Print
 => measurements will be done automatically after printing)
- 5. CPP Create Profile from Measurements => The ICC Profile and the EPL is automatically in the right CPP location "My Profiles"

+		Heidelberg Color Proof Pr	ro	- 🗆 X
File ?				
Calibrate Printer	Calibration Summary			
✓ Settings	Media name: Media type:	My_Semigloss Epson Premium Semigloss		
 Ink Limit per Channel 	Printer:	EPSON SC-P70x0 CT	Print quality:	720 x 1440 dpi/Normal
 Calibration 	Colorant: Print resolution:	EPSON UltraChrome HDX (Violet) 720 × 720 dpi	Color mode: Halftoning:	CMYK Epson Precision Dot
🗸 Total Ink Limit	Measuring device:	EPSON SpectroProofer (ILS30)	Measurement mode:	M1
 Quality Control 	Profiling chart ProfileIT874_EpsonSpectr	ro.tif	3 Choose	
🖍 Summary	Print 4			
	Create Profile from Mea	asurement		

2.5.3 Profile Optimization using Color Toolbox - Review

The profile optimization needs several steps in Color Proof Pro and Color Toolbox.

CPP = Color Proof Pro, CT = Color Toolbox

- 1. CPP Create a Base Linearisation (EPL)
- 2. CPP Print and Measure the profiling chart
- 3. CT Open profile to be optimized
- 4. CT Load reference profile
- 5. CT Load measurement data
- 6. CT Create optimized profile
- 7. CT Save the created profile to the color proof pro working directory
- 8. CPP Connect profile via profile connector

2.5.4 Automatic Profile Optimization with CPP Only - New

This is only possible with a proofer with an internal measurement device!

- 1. CPP Select the Testchart
- 2. CPP Define the ICC Profile / EPL which should be optimized
- 3. CPP Select a reference ICC Profile which the proofer should simulate
- 4. CPP Print chart=> measurements will be done automatically after printing
- 5. CPP Optimize Profile

=> The ICC Profile is automatically overwritten in the right location "My Profiles"



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Note: Videos for generating ICC profiles for proofer with Color Proof Pro and Color Toolbox:

http://onlinehelp.prinect-lounge.com/App/App_vids/en/ #t=Prinect%2Fvideotutorials_col%2Fvideotutorials_colorproofpro.htm%23TOC_Proofer_ei nrichtenbc-1&rhtocid=_3_2_0

http://onlinehelp.prinect-lounge.com/App/App_vids/en/ #t=Prinect%2Fvideotutorials_col%2Fvideotutorials_colortoolbox.htm

3 ICS Portal



Note: ICS Portal = Interoperability Conformance Specification Portal. Its goal is to ensure that any JDF is correctly imported into Prinect.

Motivation

The ICS Portal is the gate to/from the Production Manager - we have to enhance it permanently.

Description

The ICS Portal supports now PPF Import, JSON Import and IOT Connectivity (* New Tasks).

Task	Prinect 2018, 2019, 2020	Prinect 2021
JDF Import	ICS Portal	ICS Portal
XJDF Import	ICS Portal	ICS Portal
CSV Import	ICS Portal	ICS Portal
W2P Import	W2P Connector + ICS Portal	W2P Connector + ICS Portal
PPF Import	JDF Connector (PPF Handling)	ICS Portal (New PPF Handling)
JSON Import	-	ICS Portal
JMF to MIS	ICS Portal	ICS Portal
XJMF to MIS	ICS Portal	ICS Portal
Change Order	ICS Portal	ICS Portal
IOT Connectivity	-	ICS Portal



3.1 Classic PPF Import

The ICS Portal now supports the new PPF Import (* New Tasks).

Task	Prinect 2018, 2019, 2020	Prinect 2021
PPF Import	JDF Connector (PPF Handling)	ICS Portal (New PPF Handling)

Motivation

We must support the classic PPF Import (JDF Connector based) so long as we do not have the same features in the new PPF Import (ICS Portal based).

Description

The Hotfolder for the classic PPF Import is still in PTConfig / PPFIn.

File	Home S	Share View					~ ?
$\leftarrow \rightarrow$	× ↑ 📕	> Network >	PTConfig > PPFI	n		~ ت	م
Name			Date modified	Туре	Size		
CD7	4-6P3L		30.03.2020 11:47	File folder			
📜 XL1	05-6L		30.03.2020 11:47	File folder			
📜 XL1	05-8P5		30.03.2020 11:47	File folder			
📜 XL1	05-10P6		30.03.2020 11:47	File folder			
📜 XL1	05-10P6-IC		30.03.2020 11:47	File folder			
📃 📜 XL1	06-4-L		30.03.2020 11:47	File folder			

Result

The job was created in the Job View AND in the Job Combiner, the job is available at the PressCenter.

File Edit View Tools Help 1	<u> -</u>	-		HEIDELBERG
PPF Input List	٦			
C Job Number I Job Number Job Num Job Number Job Number Job Number Job Number	Status ≎ ₽. Image: status of the successful o	Processes Crea XL105-8P5 Mon	ation date	Delete date C to Mon Mar 30 09:13:28 CEST
Front side Billack Cryan Minagenta Y Yellow	Perfecting Perfec	Designation Job Number Job designation Sheet designation Customer name	84667-210311 Projekt Schweden Aumuel FB 001	Ier Format 106



Note: The classic PPF workflow is still necessary, when customers are using the Job Combiner.

3.2 New PPF Import

Motivation

The classic PPF Import was implemented in the JDF Connector. This code is not to supported anymore and has to be replaced by a new PPF handler => faster, better, bug fixing possible.

Description

The ICS Portal now supports the new PPF Import (* New Tasks).

Task	Prinect 2018, 2019, 2020	Prinect 2021
PPF Import	JDF Connector (PPF Handling)	ICS Portal (New PPF Handling)

- New PPF input hotfolder location
- · No intermediate hotfolder in PPIInternal
- · Only fully automated workflows
- Bypasses the combiner!
- Any ordering of HDM color tokens is supported
- Much faster (minimum 10 times faster)
- Many bug fixes

Description

The new Hotfolder for the new PPF Import is now in PTConfig / Connector / PPFImport.

File Home Share View					~ ?
\leftarrow \rightarrow \checkmark \uparrow \blacksquare > Network >		or > PPFImport		~ Ü	م
Name	Date modified	Туре	Size		
CD74-6P3L	25.02.2020 07:19	File folder			
CD74-6P3L-DT	25.02.2020 07:19	File folder			
📙 GOSS	25.02.2020 07:19	File folder			
SM52-5P2-ANI	25.02.2020 07:19	File folder			
📙 XL105-6L	25.02.2020 07:19	File folder			
📙 XL105-8P5	25.02.2020 07:19	File folder			
📙 XL105-10P6	25.02.2020 07:19	File folder			
XL105-10P6-IC	25.02.2020 07:19	File folder			
XL106-4-L	25.02.2020 07:19	File folder			

3 ICS Portal

Result

The job was created in the Job View and is available at the PressCenter.



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Note: The job is not available in the Job Combiner!

File Editt View Tools Help 🗗 🕕 🗣 🏦 🎒 🔂 🔂			HEIDELBERG
PPF Input List		Filter 0	Default
Sheet designation	↓ Status		Velete date
Octobelline Oureue Messages Status Front side	Perfecting	Designation Job Number Job designation Sheet designation Customer name Creation date	



Note: At the moment (April 2020) we are working on a Widget for the Portal to replace the Job Combiner - recombine separations, surfaces and sheets...
3.3 Change Order - Recalculate Layout

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

The Change Order process has always compared the last MIS-JDF with the first MIS-JDF. This can be very complex when sheet names and processes have changed => wrong quantities and times.

We should have an easier way to get all MIS informations fresh from the new JDF.

Description

The Change Order has to be activated to get informations about job changes.

- Automatic Transfer works like in previous versions: JDF files will be compared and automatically accepted by the system.
- Apply manually in open job allows to use the new feature "Recalculate Layout" (next page).



We have now 2 choices:

1. **"Accept"** all **"Received Change Order States"** - The new incoming JDF files will be always compared with the first job JDF.

	File Edit View Job Tools Help	HEIDELBERG
4	V 1953064 X + Overview Name: Change Order 2020.10 Number: 101394 Customer Name: BASE Image: Change Order 2020.10 Number: 101394 Customer Name: BASE Image: Change Order 2020.10 Number: 101394 Customer Name: BASE Image: Change Order 2020.10 Number: 101394 Customer Name: BASE Image: Change Order 2020.10 Image: Change Order 2020.10 Number: 101394 Image: Change Order 2020.10 Image: Change Order 2020.10 Number: 101394 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 Image: Change Order 2020.10 <td< th=""><th> Itele Itelee Itele Itelee <li< th=""></li<></th></td<>	 Itele Itelee Itele Itelee <li< th=""></li<>
Job list	Change Order Assigned to Sender Request Reint State: Accepted Assigned to Sender Request Reint State: Comment Viewegan 30.03.2020 Type: Delivery quantity: Viewegan 30.03.2020 Y Type: Delivery quantity: Viewegan 30.03.2020 Y Type: Delivery quantity: Viewegan 0.03.2020 Y Type: Delivery quantity: Viewegan 0.03.2020 Y Type: Layout Viewegan 0.03.2020 Y Type: State.Received 2 Viewegan Y Type: Scheduled time Viewegan Viewegan	
l	Hide settled requests. Hide settled requests. Read Accept Reject Recalculate Accept Accept Recalculate Accept	Layout Details Close Job

Result:

The layout was newly generated from JDF, the process net was regenerated and the Pagelist is still assigned.

🔯 Prine	set Cockpit [Production, Prepress, Pressroom, Digital, Postpress] - [\\HEIVM71412\PTConfig\SysConfig - Viewegan]	x
	File Edit View Job Tools Help	
		HEIDELBERG
9	v 107394 × +	× > <
	Overview Name: Change Order 2020.10 Number: 101394 Customer Name: BASF	► Idle ► 🔳
I	Imposition Product Description Proof Plates	Print Digital Printing Change Order
	📆 Grouping: 🗌 🖉 Product 🔽 🕫 Layout 📋 🗊 Signature 📋 Assignment 📄 🧬 Sheet 📋 Versions	▼ 3
	✓ B ³ LO101394 (3)	
ob list	Image: Structure in the indication of the indin of the indication of the indication of the indication o	
ρſ	Schöndruck ST 104355 (Text 02) Widerdruck	
	Selection: 3 of 3 Sheet, 0 Pages	
	Create Import Open	Replace Planning Close Job
	🔊 1 4 30.03 20 07:53 There are new messages: 0 Malfunctions / 5	2



Note: In previous versions the document and the pages would be lost.

2. **"Recalculate Layout"** will generate a new layout with new processes fresh from the new JDF - we do not compare changes to the first JDF. Qualified pages and page list assignment do not get lost.



Result:

The layout and the process net were newly generated from JDF, the Pagelist is still assigned.

	File Edit View Job Tools Help	HEIDELBERG
4	vv 101304 x +	× >{< 🕕 🖬 🖬
	Overview Name: Change Order 2020.10 Number: 101394 Customer Name: BASF	🛧 New 😕 🔳
	Product Description Processing Colors Documents Pages Imposition Proof Plates Prior	7 0 Digital Printing Change Order
	🕵 Grouping: 🗌 🎙 Product 🗹 🕫 Layout 🗌 🗊 Signature 📋 Assignment 📄 🧬 Sheet 📋 Versions	
	▼ @ L0101394 (3)	
	Einzelform Umschlagen ST104353 (Cover) Schöndruck ST104354 (Tex	ext 01) Widerdruck
Job list		
	Schondruck ST 101355 (Text 02) Wilderdruck ILL 93 83 71 ILL 93 83 91 III	
	Selection: 3 of 3 Sheet, 0 Pages	
	E 🗟 Create Import Open Rep	eplace Planning Close Job
	1 0 30.03.20 08:35 There are new messages: 0 Malfunctions /	1



Note: We expect a better sharpness in operations, quantities and times with this way to handle change order.



Note: In both cases we have to inform the Scheduler operator about this changes, because operations can be unplanned after change order!

3.4 XSLT Support



Note: XSLT = XML Style Sheet Transformation

Motivation

Customers are needing style sheets to modify JDF, JMF, XJDF, XJMF of Prinect In- and Output channels for 3rdParty connections.

Description



Warning: This implies, that if you know what you are doing, you can import corrupt XML into prinect.

XSL in the ICS Portal

- · Standard XML Modifier for all kinds of dirty work!
- Natively implemented XSL 1.0

JDF XSL Examples

1. The following example adds the Token "Approver" separated by space(" ") to every instance of Contact/@ContactTypes.

```
xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:jdf="http://www.CIP4.org/JDFSchema_1_1">
   <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes" />
   <xsl:strip-space elements="*" />
   <!-- identity transform -->
   <xsl:template match="@*|node()">
       <xsl:copy>
           <xsl:apply-templates select="@*|node()" />
       </xsl:copy>
   </xsl:template>
   <!-- fix @ContactTypes -->
   <xsl:template match="//jdf:Contact/@ContactTypes">
       <xsl:attribute name="ContactTypes">
           <xsl:value-of select="concat(.,' Approver')" />
       </xsl:attribute>
   </xsl:template>
</xsl:stylesheet>
```

- 2. Renaming or manipulating content of the JDF:
 - · Preserve 2 blanks in the sheet description name
 - · Rename the Layout name
 - ...

JMF XSL Examples

1. Remove all Milestone Signals of a given type

```
xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:jdf="http://www.CIP4.org/JDFSchema 1_1">
   <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes" />
   <xsl:strip-space elements="*" />
   <!-- identity transform -->
   <xsl:template match="@* |node()">
       <xsl:copy>
          <xsl:apply-templates select="@*|node()" />
       </xsl:copy>
   </xsl:template>
   <!-- ignore PrepressCompleted milestones -->
   <xsl:template match="//jdf:Signal">
       <xsl:if test="not(jdf:Notification/jdf:Milestone/@MilestoneType='PrePressCompleted')">
       <xsl:copy>
           <xsl:apply-templates select="@*|node()" />
       </xsl:copy>
       </xsl:if>
   </xsl:template>
</xsl:stylesheet>
```

- 2. Renaming or manipulating content of the JMF:
 - · Remove "Imagesetter." from the device ID of the platesetter
 - · Ignore Status or resource signals

XSL in the ICS Portal

- Standard XML Modifier for all kinds of dirty work!
- Natively implemented XSL 1.0

Template location

XSL templates should be placed into the ICS Portal setup directory at: <u>\\host\PTConfig\ICSPortal\XSL</u>.

The file name has to be the same as the root element of the source XML:

- JDF: \\host\PTConfig\ICSPortal\XSL\JDF.xsl
- JMF: \\host\PTConfig\ICSPortal\XSL\JMF.xsl
- XJDF: \\host\PTConfig\ICSPortal\XSL\XJDF.xsl
- XJMF: \\host\PTConfig\ICSPortal\XSL\XJMF.xsl
- JSN: \\host\PTConfig\ICSPortal\XSL\JSN.xsl



Note: XSL has been available for W2P for years.

3.5 JSON Import



Note: JSON = Java Script Object Notation

Motivation

JSON is the current state of art and we should support this format to create Prinect jobs.

Description

- JSON JDF support
- JSON W2P support
- We can modify JSON with XSL templates
- All hotfolders are JSON enabled (.json; .jsn)

Example

Such a JSON file will create...

	\times
)
ABC	
	•
	ABC

... a new job after dropping it into the JDF Hotfolder.

		ile Edit	View	Job	Tool	s He	lp								-
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ć	Ø Job	list												»[< [Ц 👽
	»											Integration	▼ * Find	q	٩
	2	Job Number	🗘 Job Na	ime			Custo	mer Name	Job Flags	Job Status	Workflow Status	Job Notes	Creation Date	🗢 Due Date	EQ.
		400100	JSON	-Job						🏫 New		ş	30.03.2020 11:19:52		



Note: For more information about JSON, XJDF, JDF, CSV, XML customers have to open a project in cooperation with their own development and Heidelberg. Such projects are NOT free of charge.

3.6 IOT Integration



Note: IOT = Internet Of Thinks

Motivation

We should store Milestones, Resource Signals and Status Signals in the Cloud.



Description

The ICS Portal will be the Proxy for IOT Cloud:

- PMC connection via cloud directory works only with Online connection
- · Limited to physical devices and Data Terminals
- · XML is translated to JSON
- Milestone, Resource Signals, Status Signals and IOT specific device messages
- No personal data



Note: Project under construction - Prinect will look into the IOT Cloud for analyzes.



3 ICS Portal

4 Data Terminal

New Data Terminal Full Installer

Motivation

Beginning with Mac OS 10.15, all software must be notarized. For this reason the old installation procedure of the DataTerminal does not work anymore.

Because Oracle Java 11 is no longer free of charge, we should change to Java AdoptOpenJDK 11.

Description

- Because of notarizing we have changed the DataTerminal to a full installer for Mac and Windows.
- The Data Terminal Installer is NOT available in PTConfig\Installer anymore! We have to download the full installer via PMC and to install the new Data Terminal manually at all DataTerminal Clients on Mac and Windows.
- Cockpit, Signa Station and Data Terminal are now using Java AdoptOpenJDK 11.

The DataTerminal installer in the PMC

Program Extras View 📰 Language Help 🏻 Prin	nect Maintenance Center
<u>*</u> <u>s</u>	
Product Installations	
You can download product installations to run the initial installation of your Prinect soft Product installations are first sent to the Prinect Maintenance Center by Heidelberg. After that, they are available there to be download of to any computer. Disable the popup blocker of your browser so that the download of the product installa In the case of an initial installation, install the products in the order presented here. Prinect Version: 2021	tware with them. stions will not be blocked.
Prinect PDF Toolbox Mac	🛨 Available 🔟
Prinect Archive System Storage Service	▲ Available
Prinect Data Terminal	Make Available
Prinect Data Terminal Mac	Make Available
Prinect Web To Print	⊥ Available 🗊



Note: When the new DataTerminal installer is used, we can update/upgrade the DataTerminal via PMC. The old Data Terminal Java installation will be removed automatically.



Note: The integrated Data Terminal (Stahlfolder) will be updated in the old procedure because Heidelberg is offering a fixed Win OS for Stahlfolder like on PressCenter.

4 Data Terminal

In this chapter we describe Prinect Features which can be used at PressCenter 20A or 20B only.

5.1 PressCenter UI on Touch Screen Panel

Motivation

The new PressCenter >=20A has a 24" Multi Touch Screen Panel - this is the preferred user Interface for the Press Operator.

We want some enhancements for easier usage in this UI.

Description

With PressCenter 20A we have some changes at the Touch Screen Panel:

- Black User Interface like at the Wallscreen
- · Job (Operation) list like at the Wallscreen
- Sub menu dialogs like at the Wallscreen
- Less buttons & logical tabs

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Intelliguide																Job data	Þ
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	100018		PB)3			ST100029 4/4		I								
	100018		PB)3			ST100030 4/4		l								
	100038		PBI	/I Job with 2)	(L Sheets		ST100278 4/4					Ļ	м с в			<mark>у м с в</mark>	
	100038		PBI	/I Job with 2)	(L Sheets		ST100279 4/4		c	olor strip		Prinect M	Aicro-6i F105	Color strip		Prinect Micr	o-6i F105
	A200591		A20	10591			Sheet 1 4/4	•		uality			Matt coated	Quality		Ma	att coated
	A200591		A20	10591			Sheet 2 4/4		F	aper white		L: 91.5	a: -0.3 b: 1.8	Paper white		L: 91.5 a: -	0.3 b: 1.8
	A200591		A20	10591			Sheet 3 4/4		s	ize rammage		630 x 81	30 x 0.12 mm 120 g/m²	Printing material Grain Direction		Saphira ma S	itt coated hort grain
_		_			_	I			ľ	ull side			0.S.	Air Assistant			
[] In	tellistart	7	Filter	\$	Workplace Cluster	int	Load job part				Preserve ma settings	chine	õ	Save job	-	Release job	
– ஹ் ஹ	0 103	() 1800 €h	0											General malfunction of the Original Control of the Ori	e color measu	uring system	control st 92
		00:00:00				17.03	.2020 09:54										

The next pages are showing how to configure a Prinect connection

- 1. Smart Setup: Log on as Service or as an IT Administrator
- 2. Basic Settings: Language, Region, Time zone
- 3. Machine Settings: Serial number & Software Version
- 4. Network Settings: Network, Data Storage Management & Network User
- 5. Production Data Collection: Log on as Operator of a Cost Center

5.1.1 Smart Setup: Log on as Service or as a IT Administrator

We now have new user rights in the PressCenter.

Image: Service Image: Serv

• **Operator** = rights to change basic press settings, **but not network and storage** - no password required.

The user rights are displayed with right mouse click or with 2 finger gesture:

Settings	for Smart	Setup									
Opera	ator		•]				factory de	fault		
	int	ellistart / Wallscreen		: 	Inking	Measuring systems	(Dir	ectstart	<u></u>	lachine	
	\checkmark	Configuration for Intellistart		\checkmark	Configuration for cleaning sheets	Color archive setting	\checkmark	Direct operator control for plate change	\checkmark	Print functions settings	
	\checkmark	Configuration for Process View		\checkmark	Overinking, overdampening			Basic washup settings	\checkmark	Paper run settings	
	\checkmark	Visibility of Process View		\checkmark	Color Assistant Pro function				\checkmark	Basic settings, peripheral units	
	\checkmark	Intellirun configuration							\checkmark	Basic settingsDevice Assistant	
		Quality Assist configuration									
											Ů

• Expert = rights to change basic press settings, but not network and storage - PW: 000

The Expert can configure additionally "Quality Assist " and the "Device Assistant":

Settings f	or Smart	Setup									
Expert		-]					factory default			
	inte	ellistart / Wallscreen	<u>'</u> ∠⊒	_ iii Inking	™ Me	easuring systems	(Ċ) Dire	ectstart	∐ Ma	chine	
	\checkmark	Configuration for Intellistart	\checkmark	Configuration for cleaning sheets	\checkmark	Color archive setting	\checkmark	Direct operator control for plate change	\checkmark	Print functions settings	
	\checkmark	Configuration for Process View	\checkmark	Overinking, overdampening			\checkmark	Basic washup settings	\checkmark	Paper run settings	
	\checkmark	Visibility of Process View	\checkmark	Color Assistant Pro function					\checkmark	Basic settings, peripheral units	
	\checkmark	Intellirun configuration							\checkmark	Basic settingsDevice Assistant	
	\checkmark	Quality Assist configuration									
											ĉ

- IT administrator = rights to modify network and storage PW: 000
- Service = rights to modify network and storage needs a token file on a USB stick:

https://login.heidelberg.com/cas/ login?service=https%3A%2F%2Fwww.prinectonlineportal.heidelberg.com%2FprinectUser%2 Fuserarea%2Fmain.xhtml%3Fdswid%3D7362&locale=en

• **Design engineer** = rights to modify everything - needs a special token file on USB stick

After log in the user icon displays with which user rights we are logged in.



5.1.2 Basic Settings: Language, Region, Time Zone

When we are logged in as "Service", we can select the "Settings".



In the first tab we can configure language, regional format, time zone.

setungs	_		_	_	_	_					
Basic settings	Machine	Measuring systems	Intellistart	Maintenance	Peripheral units	Network	Remote Service				
Operation	Engli	ish	•	Regional Tim Unit	e: 10:00 of temperature: Degre	es Celsius		Diagnosis Test ar	ıd diagnosis	۲	
Language selec	ction Operat	ting manual English		Time zone (U'	TC +01:00) Berlin, Rom	ie, Paris, Budaj	pest	Diagnostic data Save d	iagnosis data		
Heidelberg serv diagnosis	vice, Engli	sh	•								
Т	Fotal O	Sheet Rev 0	olutions O					Lock control panels	Switch off the machine		Ĵ

5.1.3 Machine Settings: Serial Number & Software Version

The second tab displays machine configurations, the "Serial number" of the machine and the installed "Software version".



5.1.4 Network Settings: Network, Data Storage Management & Network User

The Network tab allows us to configure "Network settings" and "Data storage management".

Settings								
Basic settings	Machine	Measuring systems	Intellistart	Maintenance	Peripheral units	1 Network	Remote Service	
Press model XL 106-8-P								Data storage management
Press design XL 106-8-P	ation							Network settings
Network use .\prinect	21'			Network test				IT security



Note: The network settings at the PressCenter have to be done by the Heidelberg technician together with customer IT! We strongly recommend to have a DNS and a DHCP Server with a reserved IP for the PressCenter!

Network settings - Example:

Art	Parameter	Wert
TCP/IP	Computer-Name	HFS07000002114
ТСР/ІР	State	on
TCP/IP	Mode	dhcp
TCP/IP	Address	10.54.16.187
TCP/IP	Mask	255.255.255.0
TCP/IP	Gateway	10.54.16.1
DNS	DNSServer	10.55.161.199
DNS	DNSDomain	ceu.corp.heidelberg.com
DNS	DNSSuffix	ceu.corp.heidelberg.com
WINS	WINSServer	
WINS		
NTP	NTPServer	10.50.198.62
Domänen und Arbeitsgruppen	Liste der Domänen und Arbeitsgruppen	
HTTP-Proxy Konfiguration	Adresse Proxyserver	ргоху 8080
HEIRES Tunnelserver	IP-Adresse Tunnelserver	
HEIRES Daten-Server	IP-Adresse Datenserver	
RemoteShutDown	RemoteShutDown	

NTP Server

- NTP: The NTP-Server has to be identical to the NTP-Server of the Prinect Server
- NTP: We recommend to use an internal NTP-Server
- NTP: An external NTP-URL (pool.ntp.org) is only working when a DNS Server is configured

HEIRES - Remote Service

- HEIRES: For remote access the PressCenter is automatically asking for "ping heires-device.heidelberg.com". **Only when no DNS is available** we have to define the actual IP numbers
 - · HEIRES Tunnel: 194.31.235.38 (17.07.2019)
 - · HEIRES Data: 194.31.235.36 (17.07.2019)

Data Storage Management

Settings									
Basic settings	Machine	Measuring systems	Intellistart	Maintenance	Peripheral units	1 Network	Remote Service		
Press model XL 106-8-P								Data storage 2 management	
Press design XL 106-8-P	ation							Network settings	
Network us .\prinect				Network test				IT security	

Workplace Interface Connection to load Prinect Jobs

We have to activate a "Workplace Interface" connection...

Data st	rage management			
	Active data storage devices		Inactive data storage devices	
•	Database	2_	Color data export	
			Workplace Interface	
			USB data storage	

... and to configure to get jobs from Prinect.

Data s	orage management			
	Active data storage devices		Inactive data storage devices	
	Database		Color data export	
	Workplace Interface		Workplace Interface	
			USB data storage	
		-		
Data conf	storage 2			Č

We can rename the connection (1), we must define the Prinect Server (2) and the WPI-ID (3).

Data storage configuration		
Designation	Value	
Name	Prinect 1	
Server	DRUPWF00040 2	
WorkplaceId	4222 (3)	
Port	506	
CodePage	1252	
Modify		Ċ

 Data storage management

 Active data storage devices

 Database

 Prinect

 Data storage

 USB data storage

After leaving the configuration the connection should show a "green" icon.

Color Data Export for Quality Report

"Inpress Control" or "Axis Control" can write measurement data for Quality Reports in Analyze Point.

	ata storage management										
		Active data storage devices		Inactive data storage devices							
		Database		Workplace Interface							
		Prinect		USB data storage							
		Color data export									
I											
I			→								
Ľ	Data s config	torage 2			Ċ						

Activate Analyze Point Export (3) and define the measuring device hotfolder (4) for the press device.

Data storage configuration		
Designation	Value	
AnalyzePointExport 3		
AnalyzePointFolder 4	\\DRUPWF00040\PTConfig\IT8Hotfolder\XL106-8P5-SIMU1	
Modify		Ċ

We can find all Press measuring device hotfolders in the "IT8Hotfolder" on the Prinect Server.

← → ∽ ↑ 📙 > Network > DR	Search IT8Hotfolder	م				
	Name	Date modified	Туре	Size		
Quick access	GATHERER	02.03.2020 12:11	File folder			
ᡖ Creative Cloud Files	📙 XL106-8P5-SIMU1	02.03.2020 11:52	File folder			
S WIEPC10732	XL106-8P5-SIMU2	02.03.2020 11:53	File folder			



Note: A reboot of the PressCenter is required after the "Color data export" setup.

Network User for File Access

In the Prinect Workflow we need access to folder on the Prinect Server:

- Access to thumbnails
- Access for measurement file export

Example: We can define local users (.\prinect) or domain users (ceu\prinect) as well.

Setti	ngs						
B			Intellistart	Maintenance	Peripheral units		
			Network user				
	Press design XL 106-8-P						
		er 🚺	U .\	ser name 2 prinect		Network test 5	
			P	assword			
			P	lease enter the pa	ssword again.		
						6	

A successful connection is displayed by a "green" icon.

Basic settings	Machine	Measuring systems	Intellistart	Maintenance	Peripheral units	Network	Remote Service		
Press model XL 106-8-P								Data storage management	
Press design XL 106-8-P	ation				_			Network settings	
Network us .\prinect	er			Network test				IT security	
									1 Č

Settings

3	₽	· <u>/</u>	<u> </u>	œ [₽]	(<u>;</u>)								*	HEIDE	LBERG
Intelliguide													-		
ŧ			Select	data storage	e device								10 M	~	
					\diamond	Prinect		2		-					
					5									та с в	
					Û	Cluste	er <mark>3</mark>								
												<mark>4</mark> 😁			
			ilter						Preserve ma	achine	ē	Save job			

Now we should control the WPI Connection to the Prinect System.

When jobs are available at the server for this machine we will get a list of jobs.

When no jobs are available and no warning dialog pops up, that the connection could not established, we know that the connection is OK.

5	Ø	·⁄_		æ	৾	ſ								2	k	HEIDE	ELBERG
Intelliguide																Job data	Þ
ŧ	L 123 Nun	ber	ABC Name		Dper	ation	🛱 Customer			12	UM III 200 X		*			÷	
	100018		PB03		ST100029	4/4	HEIDELBERG	1								8	
	100018		PB03		ST100030	4/4	HEIDELBERG								7		
	100038		PBM Job with	1 2 XL	ST100278	4/4						, P	<mark>П П П</mark> М С В			<mark>у м с і</mark>	
	100038		PBM Job with	1 2 XL	. ST100279 4/4				Color st	rip		Prinect M	licro-6i F105	Color strip		Prinect Mi	cro-6i F105
	A200591		A200591		Sheet 2 4,	/4	Australia - Heid		Quality				Matt coated	Quality			Matt coated
	A200591		A200591		Sheet 3 4,	/4	Australia - Heid	L	Paper w	hite		L: 91.5	a: -0.3 b: 1.8	Paper white		L: 91.5 a	: -0.3 b: 1.8
	A200592		A200592		Sheet 1 4,	/4	India - Heidelberı	l	Size Gramma Pull side	ige e		630 x 88	0 x 0.12 mm 120 g/m² 0.S.	Printing material Grain Direction Air Assistant		Saphira I	matt coated Short grain
[] In	tellistart	7	Filter	ō	Prinect Cluster	Ē	Load job			<u>.</u>	Preserve machir settings	ne	õ	Save job	Ī	Release job	
= நன் ஹை	٥ 103	() 1 €h	0											General hard disk error on c General malfunction of the No hard disk signature	control stat	ion computer suring system	Control st 92 Control st 92

5.1.5 Production Data Collection: Log on as Operator of a Cost Center

When the machine is connected to a WPI-Connection the Cost Center (5) should be automatically selected.

An Operator or an Assistant can log in (1-4), when employees are assigned to this device in Prinect.



In the current PressCenter version V20A.00.21 we have still access...

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										- ()		ARDTE ARDTE		Lighting	
	100018		PB03		ST100030	4/4	HEIDELBERG					GN			
	100038		PBM Job with	1 2 XL	ST100278	4/4	В				1			General	2

... to the old UI, because some features are not yet implemented in the new UI.



5.2 Transfer of Paper White

Motivation

We do not have the paper white definition (spectral and Lab values) in the MDS (Master Data Store) - the Press Operator has to measure the paper white every time when he is changing the paper.

We should store the measurement and use the data again when we print on the same material.

Description

This feature is working with Prinect 2021 and PressCenter 20A:

- 1. Identification of a paper using its "Article Number" and the "Brand"
- 2. Spectrum of the paper can be measured and stored as a substrate in the MDS
- 3. Automatic use of the paper white spectrum if available

1. Identification of a paper using its "Article Number" and the "Brand"

A Prinect job needs a defined "Article Number" and a "Brand" at the sheet operation:



This printing material must be defined in the MDS.

🛐 Prinect Cockpit [Production, Prepress, Pressroom, Digital, Postpress]	- 🗆 X	
File Edit View Tools Help		HEIDELBERG
	2 🏈 Printing Materials and Substrates	
Printing Materials Substrates	Width/Helght Unit mm ▼ Entries 122 Drupa	
Article Number 🗘 Description	Brand	🗘 Height 🗘 Thickness [mm] 🗘 Gran 🚌
100024 Matt coated WHI 120 g/m ² 880 mm	630 mm B Saphira matt coated Saphira matt coated 2 (matt coated) 880	000 630,000 0,120

Before we measure the paper white at the PressCenter, we do not have a substrate for this paper!

Overview		🖉 Pr	inting Materials and Substrates	
Printing Materials	Substrates			
🖫 Substrate Type ¢				Standard 🔽 Find 🔍
Name	🗢 Substrate Type	Printing Materials	Paper Type (ISO)	🗘 Type of Printing Material for C 🗘 Carrier Material 🛛 🖽
				A

2. Spectrum of the paper can be measured and stored as a substrate in the MDS

At the PressCenter touch screen panel we have to enable "Transfer of paper white".

⊡ ⊕	· <u>'</u>	<u>.</u>	æ	(j)	ß					<u>.</u> 2	ELBERG
Settings					4				1	Settings	3
Basic settings	Machine	Measurin	ig systems	Intellistar	t Mainten	ance Peripheral units	Network	Remote Service		Screenshot	
Configura	ation for	data tra	nsfer fro	om work	flow					Calculator	
J	Transfer class	r of printing n	naterial							Lighting	
5 🗸	Transfer	r of paper whi	ite							General	
J	Transfer	r of print orde	r								
J	Transfer	r of color allo	cation							l	
J	Transfer	r of ink manu	facturer								
J	Transfer	r varnish data									6
										_	Ĉ



Note: A PressCenter restart is required to enable this setting (PressCenter 20A.00.21)!

Before we have measured the paper white we do not have a paper white displayed. We have to click in the area of the paper definition to open the...

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	100018		P	303			ST100029 4/4				J.D.F			
	100018		P	303			ST100030 4/4					7	Ē]
	100038		P	BM Job with 2	XL Sheets		ST100278 4/4	•	L C			Y	M C B	
	100038		P	BM Job with 2	XL Sheets		ST100279 4/4	Ξ	Color strip Prinect Mic	cro-6i F105	Color strip	Pri	nect Micro-6i F1	105
	A200551		A	200551			Sheet 2 4/4	•	Quality N	<i>l</i> latt coated	Quality		Matt coat	ted
	A200551		A	200551			Sheet 3 4/4							
									lize 630 x 880	x 0.12 mm	Printing material	Si	aphira matt coat	ted
									frammage	120 g/m ²	Grain Direction		Short gra	ain
									full side	0.S.	Air Assistant			
[] Int	tellistart	7	Filter	¢	Workplace Cluster	Int	Load job part		Preserve machine	ō	Save job	Relea	ise job	

... Job Assistant dialog. Now we have to measure the front and the back side of the printing material.





The X-Rite dialog comes up to measure the paper.

In a simulation you have to use CmsControl to transfer a white-simulation to the PressCenter. This has to be done for the front and the back of the paper.



🖷 CmsControl (Builder: CMSBuilder, Version: tags/V20A.00.021_SFC, Date: 2020-02-28 19:55:51)

After both measurements are done, the values are displayed in the Job Assistant. In this condition we can now transfer the values to the MDS (1).



Prinect automatically creates a substrate for this paper!

- This is a 1 to 1 relationship the Printing Material is linked to the substrate.
- Only a substrate can have spectral values in different measurement conditions. In the UI only the front measurement is displayed, the back measurement is hidden but available.

File Edit View Tools Help		
▣ ⓓ <mark>?</mark>] å ⊕ ⊡· ⋈ ⊑		HEIDELBERG
Overview 2 🏈 Printing Materials	s and Substrates	
Printing Materials Substrates 3		
Substrate Type ♀ Entries 1 Standard ▼* Find	C Saphira matt coated	ubstrate Properties
Name Constraint Substrate Type - Paper Paper Paper Paper Paper Substrate Type : Paper (1) Paper 2 (matt coated) white 0,120	Paper Type (ISO): 2 (m 120,0 Created on: 16.0: Created by: CDM Date Modified: 16.0:	att coated) Supplier: 3.2020 12:47:36 Type of material: @DRUPWF00040 Reflectivity: wt 3.2020 12:47:36 Media Unit:
	Modified by: CDM	@DRUPWF00040 Quality:
	10 0.9 0.8 0.7 7 Ren 0.6 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Spectrum 5 15 160 600 650 700 750 Wavelength [nm] 100 143

3. Automatic use of the paper white spectrum if available

When we select another sheet operation with the same paper the PressCenter is automatically using the paper white definition of the substrate from MDS!

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Intelliguide														Job dat	à	Þ
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	100018		PB	103			ST100029 4/4		1							
	100018		PB	103			ST100030 4/4								Ē]
	100038		РВ	M Job with 2	XL Sheets		ST100278 4/4	,			r v	м с в		, v	ас в	
	100038	2	PB	IM Job with 2	XL Sheets		ST100279 4/4	Ξ	Color strip		Prinect I	Micro-6i F105	Color strip	Prin	ect Micro-6i F1	105
	A200587		A2	00587			Sheet 1 4/4	4	Quality	3		Matt coated	Quality		Matt coat	ted
	A200588		A2	00588			Sheet 1 4/4		Paper white		L: 91.5	5 a: -0.3 b: 1.8	Paper white		91.5 a: -0.3 b: 1	1.8
	A200589		A2	00589			Sheet 1 4/4	L	Size Grammage		630 x 8	80 x 0.12 mm 120 g/m²	Printing material Grain Direction	Sa	phira matt coat Short gr	ted rain
					_				Pull side			0.S.	Air Assistant			
Int	ellistart	7	Filter	\$	Workplace I Cluster	nt	Load job part			Preserve mad settings	chine	ī\$	Save job	Relea	se job	

5.3 Plate Cart ID from Plate Pilot

Motivation

The "Plate Pilot" creates "Plate Stacks" of planned press operations on a "Plate Cart".

We have to transfer the "Plate Cart ID" to the PressCenter to know about all jobs at this Plate Cart.

Description

- Automatic assignment of the Plate Cart ID is only available with Plate Pilot and a plate sorter of Nela
- A manual assignment of the "Plate Cart ID" to a work step is possible in the "Plate Pilot"
- The PressCenter operator can scan one "Plate Number" manually to filter all jobs at the Plate Cart next chapter

In the "Plate Pilot" we can send "Plate Stacks" to a platesetter.



We can create "Plate Carts" manually in the Plate Pilot in this menu (1). Created "Plate Carts" are stored in the "Plate Pilot". After submitting the "Plate Stack"...

Ξ	Prinect Portal							🕁 Vieweg 💄	¢	HEIDELBE	RG
Ć	Image Plate Stack			Manage Plate	Carts	(3	Image Plate Stack			×
<	Stack ID:	000002		🕸 Plate Cart Nan	1e: 001 (2)		+ tesette	Stack ID:			<0>
4	Plate Count:			Plata Carta			phine				
C I O			number	Plate Carts				Print start:		4/2/20, 1:11 PM	
1010	Print end:	4 2/20, 2:18 PM		Plate Cart Name		Action		Print end:		4/2/20, 2:18 PM	
	Platesetter: Topsetter016 (3500)		24 10005		4	۵	Þ	🏶 Platesetter: Topsette	er 016 (3500)) •	
	Plate Cart Name: -	₹ <i>₽</i>						Plate Cart Name: 001	6	▼ <i>₽</i>	
	Work Type: -							Work Type: Normal	7	•	
I	OK Cance				5) ок			8) ок	Can	cel	
	- Image P		HINE Opera		Abort						

... the PressCenter can filter for the Plate Cart.

- We can manually filter for all operations at the Plate Cart
- We can scan a Plate Cart Bar Code to filter all operations at the Plate Cart next chapter
- We can scan a Plate Number of the Plate Cart to filter all operations of the Plate Cart next chapter

At the PressCenter S20A we have a new column "Plate Cart".

ð	Ø	· <u>/</u>		œ ₽	ڻ	ł							2		HEIDEL	LBERG
Intelliguide															Job data	Þ
ŧ	📕 Plat	e Cart	T Nu	mber		Name				iite 🔏 essa ii		<▲			¥.av	Īţ
	001		100053		Bro	ochure 20 Pa	ges Cutting Offlin									
	001		100024		On	e Page										
			100018		PB	03					Y M	С В			<mark>у м с в</mark>	
			100018		PB	03		Ξ	Color strip	F	Prinect Mic	ro-6i F105	Color strip		Prinect Micr	ro-6i F105
			100038		PB	M Job with 2	XL Sheets	4	Quality		M	latt coated	Quality		Ma	att coated
			100038		PB	M Job with 2	XL Sheets						Paper white		L: 91.5 a: -	-0.3 b: 1.8
			A201303	3	A2	01303			Size Grammage		630 x 880	x 0.15 mm 120 g/m²	Printing material Grain Direction		s	- hort grain
			J						Pull side			0.S.	Air Assistant			
ln	tellistart	7	Filter	Ś	Prinect Cluster		Load job part			Preserve machine settings		ō	Save job	J	Release job	

5.4 Extended Barcode Support

Motivation

Filtering of jobs at a PressCenter in the Job list or Intellistart Job Queue with a bar code scanner. Optional we should load such filtered operations directly into the "IntelliStart Job Queue".

Description

Without special variant code settings and licenses

- A normal bar code scanner can filter jobs in the job list
- We can use the Job ID or the Plate number
 - · Job ID Signa Marks Replacer: J\$\$[jobid] => all operations with the same Job ID
 - **Plate Number** Signa Marks Replacer: **N\$\$[Plateno]** => only one operation of a job

Extended bar code support with variant code settings and license

Operations can be filtered in the job list or loaded into the job queue with following barcodes:

- · Job ID Signa Marks Replacer: J\$\$[jobid] => all operations with the same Job ID
- Plate Number Signa Marks Replacer: N\$\$[Plateno] => only one operation of a job
- Plate Number for Plate Cart ID Signa Marks Replacer: N\$\$[Plateno]
 => all operations on the "Plate Cart" of the "Plate Pilot"
 - This feature is only possible when we are using the Scheduler and the Plate Pilot!

For the extended bar code support we have to enable the "Variant code" 96W and...



... the license "Code Reader" has to be active - restart required.





We need the barcode scanner "Datalogic Powerscan PM 9500" with a LED display.

In the Intellistart Settings we can configure how to use the barcode scanner



Configuration for single barcode scan

• Adjustment plate to job queue

The "Press Assistant" is scanning the plate number

=> display of the job position in the job queue / Ink Unit (X) and Color (y)

Signal	Job of the plate	Barcode Display
Green	is on queue position 1	Job Queue 1 / Unit x - y
Green	is on queue position 2 and plates of position 1 are loaded	Job Queue 2 / Unit x - y
Red	is on queue position 2 and plates of position 1 not loaded	Error / Job Queue 2
Red	is on queue position 3	Error / Job Queue 3
Red	is not in the queue	Error / Job not found
Red	is already loaded	Error / Machine

Adjustment plate to job queue and sort the job list

The "Press Operator" or the "Press Assistant" is scanning the plate number => display of the job position in the job queue and the filter is defined in the job list

Adjustment plate to job queue and sort the job list with a barcode (of a Plate Cart)
 The "Press Operator" or the "Press Assistant" is scanning the plate number
 => display of the job positions in the job queue and filtering of all operations of the Plate Cart is
 in the job list.

Display Examples:



We can configure the barcode reader for double barcode scan too.



Configuration for double barcode scan (scanning the same barcode 2 times)

· Off

Double scan feature disabled

- Load and release a job to the Job Queue The operation of the plate number will be queued into the job queue.
- Load and release all jobs with a barcode (of a Plate Cart) All operation on the Plate Cart will be queued into the job queue.

5.5 Autofill

Motivation

We want to load all jobs automatically into the Intellistart Job queue, when we are using the "Prinect Scheduler" or the "Machine Status" widget in the "Prinect Portal" for planning.

Description

In the Intellistart Job queue we have since version 20A the "Autofill" button. It allows to load scheduled jobs automatically into the queue.

The operator at the Scheduler has to plan the jobs optimized!

The scheduled jobs should define the same paper, the same inks and the same workstyle to use "Preserve machine settings" and to minimize the make ready times!

Example

Planned press operations (jobs) in the Scheduler - 5 jobs in a row.

M	achine view	Daily view	Weekly view		Overview, indiv	idual job	Utilization	Employee Sch	edule
Ov	erall view (0:00	0 - 24:00)	H I 🗄	🕨 🕨 Ma	achine Set: Print	ShopStanda	ard 🔻 1	2	5
	0	Donner	stag, 04.Jun.						
VE	ERSAFIRE-CV								
С	D74-6P3L-DT	10 ST	1386 - KLB 52 Se 101384 11)4322_Cover-H ST1043	KLB Goe 115_Cover-H					
×	_105-10P6								
×	_105-8P5	10 ST	1384 - KLB Goe 101384 04317_Text 02 ST 043	- KLB Goe <mark>101386 - KL</mark> 18_Text 03 <mark>ST104</mark> 323_1	.B 52 Seit 101386 - KLB Fext 01 ST 04324_Te	52 Se101386 - xt 02 ST 0432	KLB 52 Se 5_Text 03		
U	AMINATOR	-							

5 planned press operations in the PressCenter.

☐ Start	ŧ	🛄 Number	📰 Name	Operation		Job data	Changeover view	Instructions					
04.05.2020 12:00			KLB Goe 50 Pages	ST104317_Text 02 4/4				10	1384		۲ *		<u> </u>
04.06.2020 12:44		101384	KLB Goe 50 Pages	ST104318_Text 03 4/4				KLB Goe 50 P	Pages				TYNE AN APPER
04.06.2020 13:28		101386	KLB 52 Seiten	ST104323_Text 01 4/4				3T104317_Text 02	2 4/4				17 19 19 19 19 19 19 19 19 19 19 19 19 19
04.06.2020 14:17		101386	KLB 52 Seiten	ST104324_Text 02 4/4						Times .			
04.06.2020 15:01		101386	KLB 52 Seiten	ST104325_Text 03 4/4								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			Instruction IS25	ST103840_1Page Single					7650 45				
		101421	ÃŽnspection from PBM Job	ST104465_1Page Single	≣ ec	d			8000 -		Y M C B		Y M С 8
		M19-00035	Instructions	FB 001 4/4	4				-				
		Moquin006393	Moquin006393	ST121784_1_FB 001 4/4				04.06.2020	12:00				
		Moquin006393	Moquin006393	ST121784_3_FB 003 4/4									
		101428	36Pages Brochure	ST104482_Text 01 4/4									
		101428	36Pages Brochure	ST104483_Text 02 4/4									
		101429	36 Pages Brochure	ST104486_Text 02 4/4									
📑 Intellistart	7	Filter	Prinect2020		ľ	√ 0	Preserve machine s	ettings			Save job	Ģ	Release job

Intellistart - Job queue 🔋 🚺		Process view	Job data	Changeover view	Instructions			
Job memory	୍ର Finish production							

In this example we have an empty Intellistart Job Queue and we activate "Autofill".

The "Preserve machine settings" dialog is asking which parameters we want to preserve from the last job.

Intelliquide	Presettings for "Preserve machine settings" for jobs that are autor	natically set in the Job Queue		
	🗸 Printing material	🗸 Pulleide	Vowder apray devices / Dryer	
	V Paper run / Delivery	Paper run / Printing unit	🗸 Paper run / Feeder	
Intellistart - Job queue	Vinting method	Quantity	Messuring device data	
	Color settings			
	•			
	Preserve machine settings	In the selected categories, the machine settings currently in place are prec	served at the start of job change. 🛛 🖉 🏑	

"Autofill" will automatically load the scheduled press operations into the Intellstart job queue:

- minimum for 15 minutes production time or
- minimum 3 operations

When we select button 2 and 3 for a job we have queued the jobs in Push2Stop mode. No double lines between the jobs means no interruption.

Intellistart - Job queue			Process view	Job data	Changeover vie	w	Instruc	tions										
1 101384 KLB Goe 50 Pages ST104317_Text 02 4/4 06.06.2020 09:53 C 7650 Sheet 120 g/m² / GLOSS-120-BI 640 x 880 x 0.14 mm		-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -				8	7	6	5	4	3	2	1		Remove			
2 101384 KLB Goe 50 Pages	1	+ ₄							 ✓ /ul>			 ✓ /ul>		\$; ;	Mount Blanket Impression cylinder Inking unit)))
3 101386 KLB 52 Seiten ⊯Ji ST104323_Text 01 4/4 06.06.2020 11:21 7650 Sheet 120 g/m ² / GLOSS-120-81														Щ.	Preinking			•
640 x 880 x 0.14 mm				2 🗸		ø *					-1	3 🗸	4	ł	✓ 🖒			
Job memory	⊙∮ Finish production	<u>√</u> (i)	V 🗹 Pr	eserve machir	ne settings													



Configuration	n for Job Queue display
	Display a separating line if automatic processing in the Job Queue is interrupted.
	Show a symbol for unplanned or deleted jobs related to the workflow system
	Show a symbol for incorrect sequence related to the workflow system

The separating line displays a machine stop between the jobs.

Intellistart - Job o	queue			Process vie	v Job data	Changeover view	Instru	ctions								
1 101384 KLB Goe 5 ST104317, 06.06.2021 7650 Shee 120 g/m ² 640 x 880	i0 Pages /_Text 02 4/4 (0 09:53 et / GLOSS-120-BB x 0.14 mm		-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -			-	8 7	6	5 4 X X	3	2	1	€, R	emove		
2 101384 KLB Goe 5	60 Pages 8_Text 03 4/4 60 10:37 et / GLOSS-120-BB x 0.14 mm		-A -A -A			 					>	Image: Second	الان الم الم الم الم الم الم الم الم الم الم	tount lanket npression ylinder ıking unit		• •
3 101386 KLB 52 Se ☑ ST104323 06.06.2020 7650 Shee 120 g/m ²	eiten 8_Text 01 4/4 10 11:21 et / GLOSS-120-BB			K		[₽, P	reinking		•
640 x 880	x 0.14 mm	_		_		🕮 🗹 (,* [~	-	~	æ		
Job memory	y .	⊙ź Finish production	✓ ⁽¹⁾	V 🛛	Preserve machi	ne settings										

Note: Even when we are using "Preserve machine settings" the PressCenter is looking for different job settings and will generate a logical stop.



ī

5.6 Prinect Planning Icons in Intellistart Job Queue

Motivation

We want to have a warning when planned jobs are not orderer correctly in the "Intellistart Queue".

Description

We have implemented in the "IntelliStart Queue" 2 display settings:

- · Show a symbol for unplanned or deleted jobs related to the workflow system
- · Show a symbol for incorrect sequence related to the workflow system

Settings											
Basic settings	Machine	Measuring systems	Intellistart	Maintenance	Peripheral units	Network	Remote Service				
Configuration f	for Job Queue	display									
Display a separating line if automatic processing in the Job Queue is interrupted.											
Show a symbol for unplanned or deleted jobs related to the workflow system											
V	Show a s	symbol for incorrect seque	ence related to th	e workflow system							

Examples

- 1. The first operation was scheduled for this machine at first
- 2. The second operation was scheduled later
- 3. The third operation was not scheduled for this machine loaded from a machine cluster



In this example the Intellistart symbol displays that the planned order is wrong.



After moving the second operation to the right position the warning icons are not longer visible.


6 Analyze Point

2020.10

Note: This feature was implemented in Prinect Production Manager 2020.10.

Modifying Good Sheets

Motivation

Customers want to keep the report data consistent, even if sheets had been counted wrongly at PressCenter. This happens when the operator has forgotten to press "waste sheet" to "good sheet counter".

Description

- 1. The Cockpit User needs an assigned Employee ID
- 2. Cockpit permission "Analyze Point Change Job Data" assigned
- 3. A specific preview flag has to be enabled in the "Reporting Service" Web UI

Available for PressCenter operations only!

1. The Cockpit User has to be an Employee with an ID

File Edit View Tools Help	HEIDELBER	G
Overview 2 🗃	Users	
Outsers 3 Outsers 3 Outsers 0 Outsers 0 User Name: Viewegan Disabled: 0 Password for OS Login 2 Outsomer Name: Language Description: 2	Person Employee ID 1 Title: Mr. 4 First Name: Andreas Family Name: Vieweg	

2. The user needs the Permission "Analyze Point - Change Job Data"

Overview							2 🔞	lsers					
🕼 Users	General	Customers	Rem	ote Access	Job	Machine	Prinect Cockpit	Prepress	Press	Postpress	Digital	Analyze Point	
S Groups	Permission			License			Allow				-		
Permissions	🔵 Analyze I	Point - Administral	tion				Administrators, PressAdministrators						
3	Analyze I	Point - Change Jo	b Data				Administrators, PressA	dministrators					
	🔵 Analyze i	Point - Cockpit Ba	se	🔵 Analyze F	oint - Coc	kpit Base	PressPowerUsers, Ad	ministrators, Pre	ssAdminist	rators			
	🔵 Analyze I	Point - Job		Analyze Point - Cockpit Base			PressPowerUsers, Administrators, PressAdministrators						
	🔵 Analyze I	Point - Machine St	atus	🔵 Analyze F	oint - Coc	kpit Base	PressPowerUsers, Ad	ninistrators, Pre	ssAdminist	rators			
	🔵 Analyze I	Point - Performan	ce	🔵 Analyze F	oint - Coc	kpit Base	PressPowerUsers, Po	stPressPowerU	sers, PostPi	ressAdministrato	ors, Administ	trators, PressAdministrators	

3. A specific preview flag has to be enabled in the "Reporting Service" Web UI

File Edit View Tool:	s Help 		HEID	ELBERG
Overview		2 🥁 System		
System → □ = Cockpit → S = HEIVM71413 3	Analyze Point Service Analyze Point Service URL:	http://HEIVM71412.6461/ReportingService/services		
▶ □ → APSC ▶ □ → ASArchiver ▶ □ → ASRetriever	Version: Memory Usage:	ReportingService 20.10.138.003 12.3% Status:	Running	
► □ → Auto Preset ► □ → AutoLayout ► □ → AutoPage	Database status: Database Size:	Connected (HEIVM71412)		Details 4

The flag "Enable interval correction" has to be enabled.

Prinect - Reporting Web Client × +	
← → C (i) Not secure heivm71412:6461/ReportingService/webUl/dbTab	bleList.jsf
📙 Lesezeichenleiste 🔇 Prinect Supervisor UI 🤾 DFE Simu 🔇 MDS 🚻 PrinectPo	rtal Η Prinect Maintenanc 🕥 Web 2 Print 🕥 Prinect API 🌹 Jira 🔇 StorageService
HEIDELBERG	
Reporting Status	
<u>Kev:</u>	Value
General: enable reports for Linoprint device 901	false
General: Enable interval correction 2	true
InspectionReport: stable time (1-60 s)	30



Features

- · Ability to modify good sheets for the last 24h
- Setup / production time will be adjusted
- Changes completely applied by Analyze Point reports
- Notification will be sent to MIS

Example

File Edit View	Tools	Help [1	Ĩ				-		H≣I	DELBEI	RG
Machines Jobs Empl Machines Prepress Suprasetter_145(s Digital	loyee S Today Evaluation	tatistics Perform Start: Log Prog e von Arbeitsgängen	ance Report 3/29/2020 ress Quality deren Waste größer G	Energy efficient	Y Er	nd: 3/30/2 tivity Menger	2020 00.00 1ånderung (24h) 3 na	ach JobID filtern			
CD74-6P3L		Job number	Operation de	signation	Start	End	Waste Amount	Good	production	Total Amou	unt
- & CD74-6P3L-DT - & XL105-10P6	84667-2	210311	FB 001 4/4	4 ³⁰	.03.2020 09:30	30.03.2020 09:45	116 0 h 11 min	50 0 h 03 mi	0 n	616 0 h 15 min	
–		🔯 Mengenänderung	(24h)							×	
- 🦉 KH87DIRECT		Job number	Operation designat	Start	End	Waste Amoun	t Good To	tal Amount L	ast Modified	reset	
- 18 DIANA = - 18 EB5000 - 18 EB5000 - 18 EB5000 - 18 SEWING-1 - 18 SEWING-2		84667-210311	FB 001 4/4	30.03.2020 09:30	30.03.2020 09:45		6 520				
							7		lehmen	Cancel	
- 4€ ST450DIRECT - 1€ VARNISH-1											
Defined view 🗸								5 au	sgewählte Arb	eitsgänge korrigier	en 🗸

When we increase the good production from 500 to 520...

... 20 sheets are removed from the waste production. The Cockpit user who has modified the values is displayed in the last column.

Machines Jobs Emp	oloyee Statis	tics	Performance R	eport							
 S Machines 	Today		Start.		0 🗸 🛄			End: 3/30	/2020 🖉 🗔 🛛		
🖵 🗇 Suprasetter_145(Sup	Evaluation	Log	Progress	Quality	Energy	efficiency	Produ	ctivity Meng		1	
v-⇔ Digitai versafire-cv v-⇔ Printing	🗖 Anzeige vo	n Arbeits	sgängen deren V	Vaste größ	er Good ist				nach Jo	obID filtern	
- 22 CD74-6P3I	Job numb	er (Operation desigr	nation	Start	En	ıd	Waste Amount	Good production	Total Amount	Last Modified
- 🧟 CD74-6P3L-DT - 🧟 XL105-10P6	84667-2103	311 F	B 001 4/4	3	0.03.2020 09:30	30.03.20 09	020 :45	96 0 h 11 min	520 0 h 03 min	616 0 h 15 min	30.03.20 13:46 Vieweg, Andreas
T XI 105-885											

6 Analyze Point

Waste production and good production are modified in the job reports. The good production time and the waste production time was automatically recalculated by changing the good production.

Machines Jobs	Employee Statistic	s Performance	e Report										
🖫 🛛 Job number 🤤 📑	Job number: 84	2 Job	Name:	Customer nan	ne:							Default	*
Operation designation	🗘 Job Name 🛛 🖨	Process steps 🗘	Machine designation 🖨	Operation status 🗘	Good p	production	🗘 Waste Am	iount ¢	Waste pe	ercentage	≎ Ove	rproduction 🕻	Article
🗢 🐧 84667-210311	(1)												
FB 001 4/4	Projekt Schwede	💐 Printing	XL105-8P5 3	Finished		52	D	96		16 %	6	4 %	-
Operation evaluation	Operation protocol	Operation progre	ssion Quality										
Job									27 - 1 28		77 185 MP	72.0	
Job number:										a restaute al fie uffit	H THE		
Job Name:	Proje	kt Schweden Aumua	eller Format 106				190 Lag		e 1 8 1	frigerich in angene	11		
Customer Name:										11. F. C. F.	-	200 F	
Operation					683			1 6 6 F	and the state of the				
Operation designation:	FB 0				4445	arrest and	i de la sert	11	-		- en		
Operation status:	Finisl	ned			÷	-		1.00					
Operation executed:	0	10	0%										
Time													
					Quar	ntity							
26%		74%			0%	10%	20% 30%	40%	50%	60% 7	70%	80% 90%	100%
Effective processing time:		15 min 100%						849	X6		_	169	6
Production time		15 min			De	ocirod produ	iction						
Execution time		03 min 26%				od product	ion:		51	0 040			
Setup time		11 min 74%			140	octo Amour	ion. it:			047 16 169	6 6		
Working period					To	usic Amount	n			107 109	6		
Working period						a ann ann ann ann ann ann ann ann ann a							

The employee time sheet displays the changes too.

Machines	Jobs	Employ	ee Statistics	Perforn	nance Report							
Month: Ma	arch 2020	2		Paschirbe, I	lichael (2) 3	Shift end 30.03.2	20 13:48 👻					
Time shee	et											
Employe	e											A
Family Na	ime:											
Employee												
Shift date:			30.03.20 09:29 -	30.03.20 13								
Time							Quantity					
4%									84%		16%	
Effective p	processing	lime:	4 h 19	min 100'	%		Good productio		520	84%		
Production	n time		0 h 15				Waste Amount:			16%		
Execut	ion time						Total Amount:			100%		
Setup 1	time											-
No time ca	ategory						More details					
🔳 No tim	e type				8		Number of operation					
Start	End	Duration	Action	Work type	Cost center no.	Job number	Operation designation	Quantity	Comment			
					Machine designation	Job Name		Waste				
30.03.20	30.03.20											
09:29	09:30				XL105-8P5							
30.03.20	30.03.20		4000	Normal	4202	84667-210311	FB 001 4/4	6				
09:30	09:41	0 h 11 min	Grundeinrichten		XL105-8P5	Projekt Schweden Aumueller Format 106						
30.03.20	30.03.20					84667-210311	FB 001 4/4					
09:41	09:45		Gutproduktion		XL105-8P5	Projekt Schweden Aumueller Format 106						

7 Plate Pilot

7.1 Performance Constancy for External Platesetter

Motivation

Since Prinect 2019 we can create "External Platesetter" for the "Plate Pilot".

The performance (Plates per hour) of the platesetter must be consistent to the Plate Pilot setup, because this value is used for the calculation how many plates can be produced just in time for scheduled press operations.

Description

When "Number of Plates per Hour" of an "External Platesetter" is automatically synchronized for...

File Edit View Tools	Help	
		HEIDELBERG
Overview	2 System	
 CEPSConverter Cockpitserver Cockpitserver ColorCarver CorbentHotfolder 	🔀 Configure External Platesetter Edit configuration for external platesetter	×
 □ · · · · · · · · · · · · · · · · · · ·	Device name: Topsetter016 Machine Identifier (DeviceID): 3500 Target folder: <u>NDRUPWF00040/PTTransfer/Topsetter106</u> Br	16
PDConnect PDConnect PDCompare POFCompare PlatesetterExterna PT PFOut PFF0ut PFF0ut PFf0ut PFf0ut PFf0ut	Platesetter does NOT send status messages Number of Plates per Hour: 42 Platesetter sends status messages Maximum Imaging Time: 2 minutes	Device class Platesetter
 □ I Recombiner □ I RemoteAccess □ I Renderer 	ОК	Cancel

... the Plate Pilot.

			HEIDELBERG
Overview	2	V Plate Pilot	
Set up the Plate Pilot here. In "General settings", paramet Status".	ers are set that do not depend on the related platesetter	If lights are to be used to signal the imagesetter status, you can set	them up in "Optical Signaling of Imagesetter
The setup of the Plate Pilot for the various platesetters ca platesetter display on the right part of this section. This is	n be done in "Configuration of Platesetters for Use with f where you can make any changes, if necessary.	Plate Pilot". The left part of this section displays all available plateset	ters in a list. The properties of a selected
Configuration of Platesetters for Use with Plate Pilot –	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
All Platesetters:	Selected Platesetter: Topsetter016 (3500)		
Topsetter016 (3500)	O Manual Operation		
Operation mode: Plate Pilot active	Plate Pilot active		
TiffBHandler1 (TiffBHandler1@DRUPWF00040)	4 Number of Plates per Hour:	42	
Operation mode: Manual Operation			
TiffPHandler2 (TiffPHandler2@DPLIP)//500040)	Automatic Output of Next Plate Stack		
Operation mode: Manual Operation	The "Plate Processing" step is available		
			5310

7.2 Platesetter Start Widget

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

2020.10

All Plate Pilot controlled platesetters should be displayed in a Portal widget

Description

The widget "Platesetter Start"...

😂 Name: Plate Pilot						
Share Dashboard with:	>					
😅 Plate Pilot		📴 Pla	tesetter Start			
Group: Machine	•	Group: M	lachine	•		
Type: Plate Pilot	•	Type: Pla	tesetter Start	•	+	
Plate Pilot: -	•	41 A		v		
< 🖬	>	<	Ē	>		

... displays all platesetters, controlled by the Plate Pilot - Suprasetter and External Platesetter.



In the Widget we can see the status and abort a running job.

≡ Pla	atesetter Start				viewey	*	HEIDELBER
Platese	tter	Topsetter016					
	Magnus106 Current: - (-) Press: - (-) Plates: - (-)						
0:23	Topsetter016 Current: 001 (000002) Press: XL106-8P5-SIMU1 (4 Plates: 16 (23 Minuten)		Current:	22:50	000002		
			Plates:		AL100-8P5-SIMOT		
			Plate Cart:		001		
				× Abort			

7.3 Abort a running Plate Stack in Plate Pilot

Note: This feature was implemented in Prinect Production Manager 2020.10.



2020.10

Wording: "Plate Set" and "Plate Stack"

- \cdot Plate Set = all plates which are necessary to print one operation
- · Plate Stack = a batch of Plate Sets

Motivation

In case of an error or a damaged platesetter we must abort a running Plate Stack.

Description

- · A Plate Stack of different Plate Sets is only to abort when the stack is running
- An aborted Plate Stack removes all his active & waiting plates at the Shooter 2, the actual running plate will be aborted
- The aborted Plate Stack is automatically dissolved into a new Plate Stack with all unexposed plates and it is possible to "Re-image Plates" again.

≡	Prinect Portal												🕁 Vie	weg 💄	¢	HEIDELBE	RG
B 1	late Pilot															C	×
	L106-8P5-SIMU1				\$	= >	< < D >	a	P Plate	Stacks		,	₹ : \ <d></d>	Plattenbe	lichter		\$
Press	×k	TIFI Ava	F-B ilability	Print start	Operation	Job	Due Date	Ava of p	ailability printing	Stack ID	Print start	Print end	Job number	Maschine	Informati Supras	on etter (Suprasetter@Ki	e-Intl
Machin	Nformation XL106-8P5-SIMU1 (4 Plate Stacks: (1) & Provide plat Relationst		0 (8)	-	Signature 16 pages 4/4	100024 (One Page)	3/20/2 12:00 AM	pia	40 (40)	Unbatched plates for XL106-8P5-			100010 100000 1000	P	Druckma: Platten: 2	(000001) schine: HeiTest_XL105-6-P; (2 (66 Minuten) chten	2L (HeiTe
	XL106-8P5-SIMU2 (4 Plate Stacks: (0) • Unknown Brint and		0 (8)	-	Signature 16 pages 1 4/4	(Brochure SR 5) 100046	372672 12:00 AM	L	40 (40)	SIMU1 from Drupa on DRUPWF00040	-	-	100018, 100038, 1000				
	XL106-AUTO (HeiTes Plate Stacks: (0) X Provide plat Print end:-		0 (8)		Signature 4 pages 4/4	(Change Order Job - Lay different)	3/29/2 12:00 AM		8 (8)	Unbatched plates for XL75-5L from Drupa on DRUPWENNAN	-		100018, 100053				
	XL75-5L (4224) Plate Stacks: (1) 4 Provide plat Print end: -		0 (8)	-	Signature 16 pages 1 4/4	100048 (Brochure SR P3)	3/29/2 12:00 AM										
		4	0 (8)		Signature 16 pages 2 4/4	100048 (Brochure SR P3)	3/29/2 12:00 AM	٩.		_							ows
			Create Pl	ate Stack	Resam	ple Acc	ept	Re	⊢lmage Pla	Remove	Operation	is from S	tack Abort				tivate \

7.4 Remove Operation from Stack

2020.10

Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

Plate Stacks can be created automatically or manually. It should be possible to dissolve Plate Stacks to remove Plate Sets again for unexpected urgent jobs.

Description

For the first scheduled Press Operation we have 2 Plate Sets with calculated Tiff-B's.

We can select the Plate Sets and create a Plate Stack.



The Plate Stack is waiting for imaging, because we haven't used the automatic mode for output. It is possible to "Remove Operations from Stack" of aborted or waiting Plate Stacks.

EF	Prinect Portal												*	Vieweg	. ×	×	HEID	ELB	ΞR	G
📴 Pla	ate Pilot																	S		×
🗖 XL	106-8P5-SIMU1				ł	¢÷≣	×	<∎>	🗇 Plate	Stacks -	Planned		7 E	< D >	Platese	tter	¢	><		•
Press	×k	TIFI Ava	F-B ilability	Print start	Operation	Job	Due Date		Availability of printing	Stack	Print	Print	Job number	Imaging	Machine					
Machine	Information				Signature	100043	3/26/20,		plates	ID	start	end		time		To Ne	psetter01 xt: 000001	6 (350)0)	
	XL106-8P5-SIMU1 Plate Stacks: (1) & Provide p Print and:	_	0 (8)	-	16 pages 1 4/4	(Brochure SR 5)	12:00 AM		0 (16)	000001			100024, 100053	22 Minutes	Þ	Pre Pla	tes: XL106-8 tes: 16 (22 N	P5-SIM linutes)		
	XL106-8P5-SIMU2 Plate Stacks: (0) · Unknowi Print end: -		0 (8)	-	Signature 4 pages 4/4	(Change Order Job - Lay different)	3/29/20, 12:00 AM				PM	PM					Tinaging			
		4	Create	e Plate Str	ack Res	ample .	Accept	,	Image Plate	Stack	Remove C	2 Operations fo	rom Stack	\bort	4					•

🗗 Rei	move Operations from	Stack						×
Stack				Operations from Stack				
Stack Plate Press Plates	ID: Cart: : setter:	•	000001 XL106-8P5-SIMU1 (4222) & 3500					
Opera	tions							
M	Availability of printing plates	Operation		Sheet	Print start		Imaging time	
V	0 (8)		100053 (Brochure 20 Page Offline)		4/2/20, 1:11 PM	4/2/20, 1:35 PM	11 Minutes	BCMY/BCMY
v	0 (8)	Signature 16 pages 4/4	100024 (One Page)	Signature 16 pages (ST100039)	4/2/20, 1:35 PM	4/2/20, 2:18 PM	11 Minutes	BCMY/BCMY
				OK Cancel				

In the dialog we can select which Plate Sets we want to remove from the Plate Stack.

Result

The removed Plate Sets are available in the list of Plate Sets again and can be grouped into a new Plate Stack.

TH E	inect Portal													7	/	Vieweg	.	¢	+	IEIDE	LBE	RG
📴 Plat	te Pilot																				S	×
🗖 XL1	06-8P5-SIMU1				¢	Ξ	»I< <0	Þ	🗗 Plate	Stacks	- Planr	ned		7	Ξ	< D >	Plate	esette	er	\$	> <	< D >
Press	×k	TI At	IFF-B vailability	Print start	Operation	Job	Due Date	^	Availability of printing	Stack	Print	Print	Job	Imagir	ng	Press F	Machi	ine		ation		
Machine	Information					100053		l	plates	ID	start	end	number	time					Topse	etter016	5 (3500	
	XL106-8P5-SIMU1 Plate Stacks: (1) & Provide ; Print end: -		8 (8)	4/2/20, 1:11 PM	Text01 4/4	(Brochure 20 Pages Cutting Offline)	4/5/20, 12:00 AM	l					No plate	stacks	avai	ilable.	۶.		Press: Plates:	- (-) - (-) naging		
	XL106-8P5-SIMU2 Plate Stacks: (0) + Unknowi Print end: -		8 (8)	4/2/20, 1:35 PM	Signature 16 pages 4/4	100024 (One Page)	3/20/20, 12:00 AM	ł														
	XL106-AUTO (HeiT Plate Stacks: (0) ≱ Provide p Print end: -		0 (8)	-	Signature 16 pages 1 4/4	100043 (Brochure SR 5)	3/26/20, 12:00 AM															

7 Plate Pilot

8 API

API = Application Programming Interface

Motivation

Customers want to get System and Data Base access to Prinect. The received notification files are written in JSON format and are to be analyzed in 3rd Party applications / systems.



8.1 Color Data Export

Description

- · Provides demand for real-time color measure data export
- Spectral data only / IT-8
- Data sources: Inpress, Axis, Easy Control

/rest/device/action/subscription (POST)

8.2 Sheet Details for Printed Sheets

Description

Documentation of each single sheet the machine passed (last 15 days):

- Type: PrintedSheet, StartupSheet, UnprintedSheet, ...
- Class: Good, Waste, Unprinted
- Destination: DeliveryPile, SampleSheetTable, WasteCollector
- Inspection state*: #inspection deviations detected
- Code inspection state*: #code errors detected
- Color quality deviation**

/rest/job/[jobId]/workstep/[workstepId]/output (GET) /rest/device/[deviceId]/output (GET)



Note: The actual API help.pdf with all API commands is always available at a Prinect System via Link.

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🚺 Apps 📙 Travel 📙 Privat	📙 Software 📙 Heidelberg 📃	Prinect 🧧 Cloud 📕 Drupa	🛃 JIRA »							
Prinect API										
Home	Test									
1 Welcome to Prin	1 Welcome to Prinect API									
You can download the documentation of the the Prinect API from <u>here</u> .										

Note: The API can be reached in 2 different ways, because the API is always running at the Portal Server:

• "Local Portal" at a Production Manager Server: <u>http://INTSERVER/:15011/PrinectAPILocal/</u>

OR

i

• "Prinect Portal" at a separate computer: <u>http://PORTALSERVER:15011/PrinectAPI/</u>

For a Prinect Portal Server we need a Prinect Engine license only for API (System and Database access:

All licenses Valid license	s Permanent licenses Time-limited licenses		
🐺 🕨 Workstation DF	RUPWF00042 Product Prinect Engines, 21.0	✓ LSN: 1032	46 🖅 🗈 🖓m
Workstation	Product / Option	State	Instances Used
	64 Business Manager Service	-	▲
	66 Prinect Scheduler	-	0
	69 Autopreset	-	0
	70 Analyze Point - Base	-	0
	75 Prinect Mobile	-	0
	76 Connecting Press	-	0
	P 77 Connecting Digital Press	-	0
	78 Connecting Postpress	-	0
	P 79 Connecting Manual Labour	-	0
	80 Connecting Manual Prepress	-	0
	D 81 Data Terminal Prepress	-	0
	D 82 Data Terminal Press	-	0
	83 Data Terminal Postpress	-	0
	84 Data Terminal Digital Press	-	0
	D 87 Komori	-	0
	D 89 Goss	-	0
	▷ 93 SQL Cores	-	0 (max. 16)
	94 System and Database Access	🕒 Feb 19, 2021	1
	97 Prepress Portal Service	-	0
	Ø 99 Generic Postpress Interface	-	0 (max. 15) 👻

Heidelberger Druckmaschinen AG

Gutenbergring 69168 Wiesloch Germany Phone +49 6221 92-00 Fax +49 6221 92-6999 **heidelberg.com**

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Version 2021

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