



Training Documentation

Prinect Production Manager 2021 - What's New

Revision 1.5



Prinect

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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:** http://educate-center.heidelberg.com/ilias/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%3APrinct#l=1033>
- **Online Help:** http://onlinehelp.princt-lounge.com/Princt_Integration_Manager/Version2020/en/#t=Princt%2FTitle_RoboHelp%2FTitle_RoboHelp.htm
- **Princt Operating Systems & Princt System Requirements, Color Proof Pro Device list:** https://www.heidelberg.com/global/en/software/workflow/princt_updates/princt_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 Princt Production Manager 2020.



Note: This feature was implemented in Princt 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:

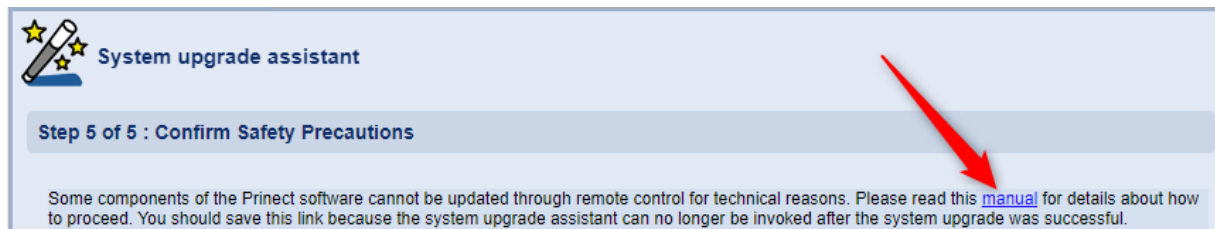
https://www.heidelberg.com/global/en/software/workflow/prinect_updates/prinect_system_requirements.jsp

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

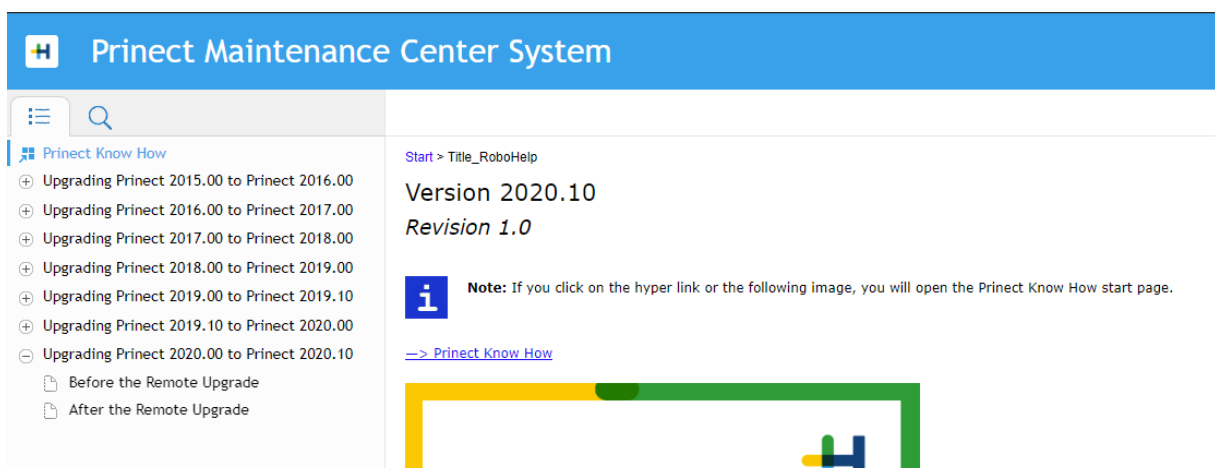
The most important changes for Prinect 2021

- 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.



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

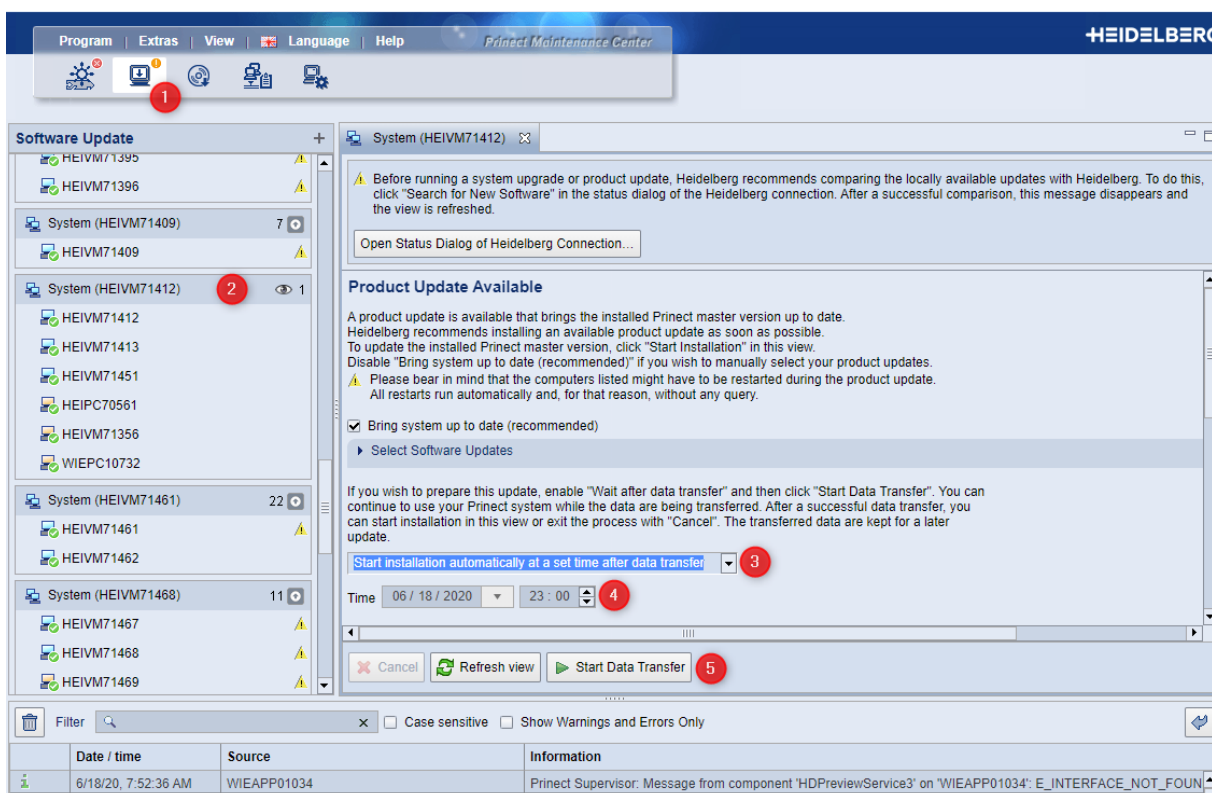
Customer want to update or upgrade the Prinect System time scheduled.

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 "Princt Supervisor"

2020.10

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

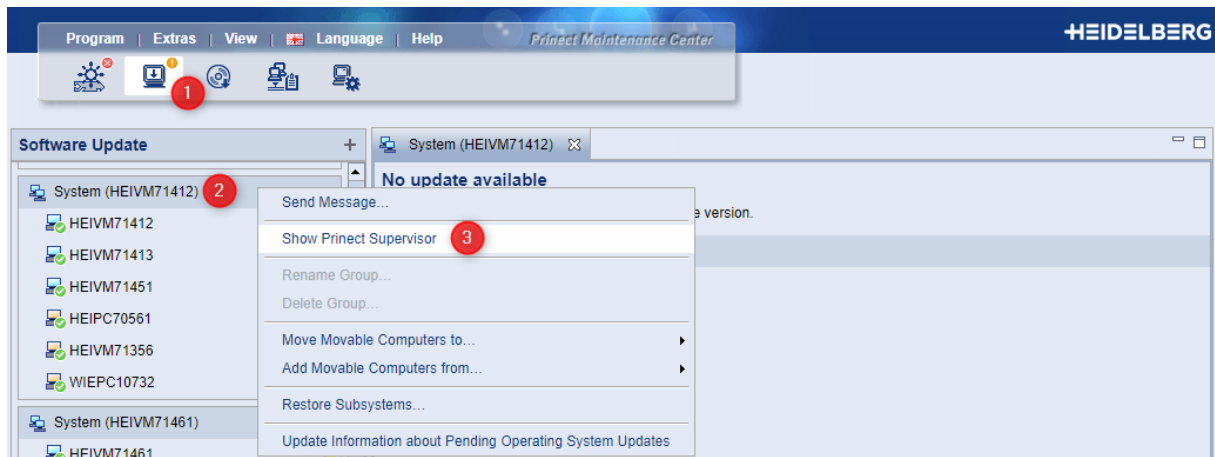
Motivation

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.

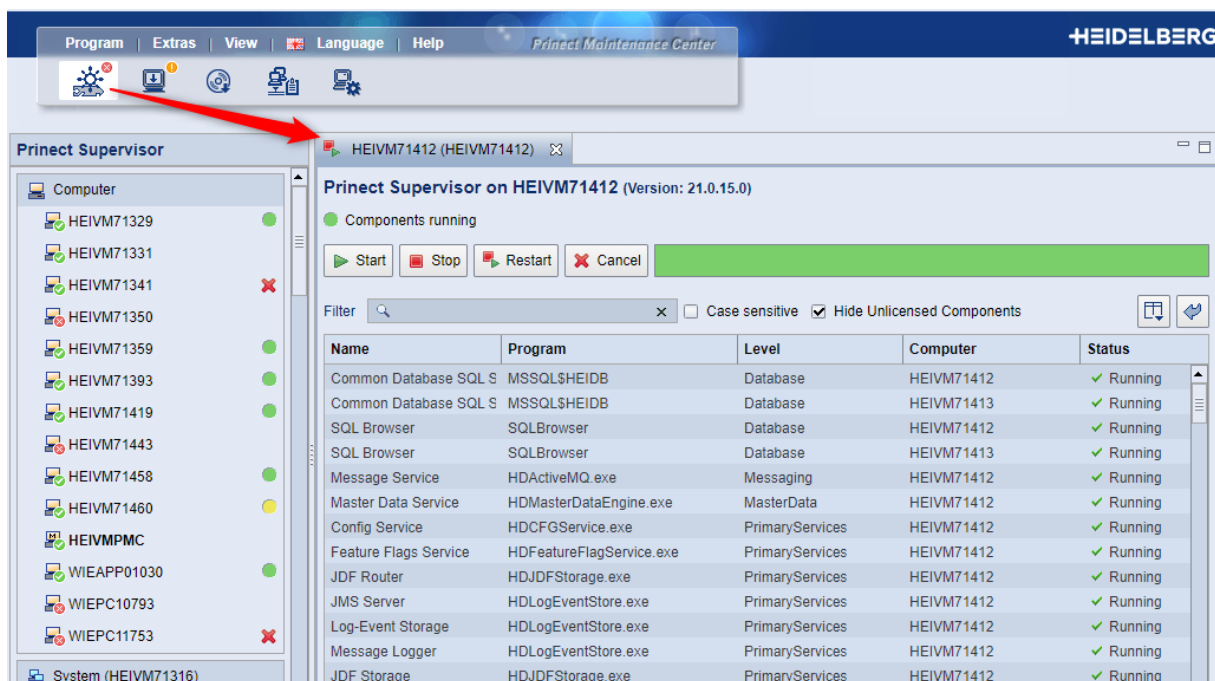
Description

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.



1 System - Cockpit

1.2.3 Cleanup Unavailable Server and Computer

2020.10

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

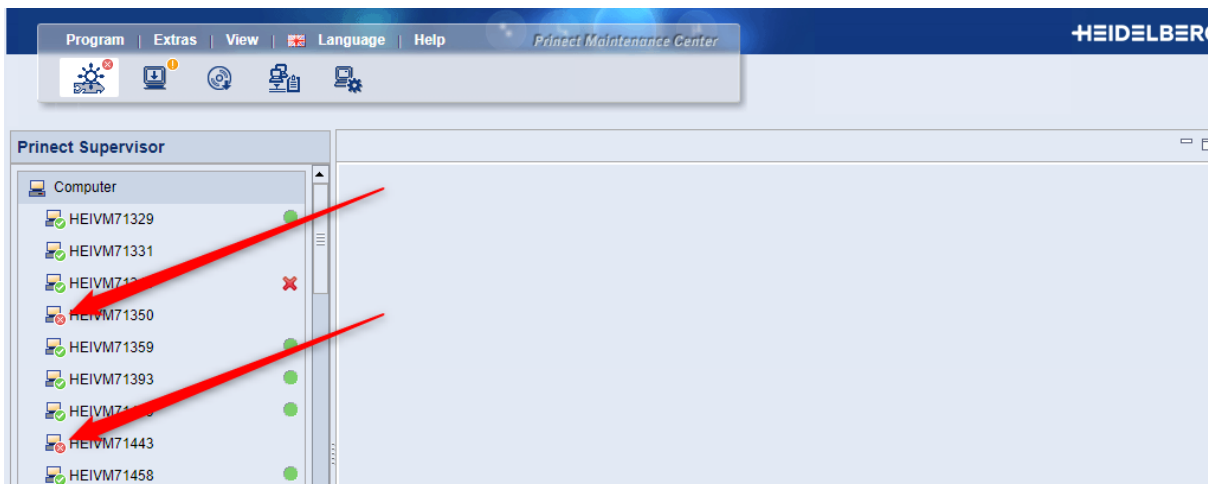
Motivation

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

2020.10

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

Motivation

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!

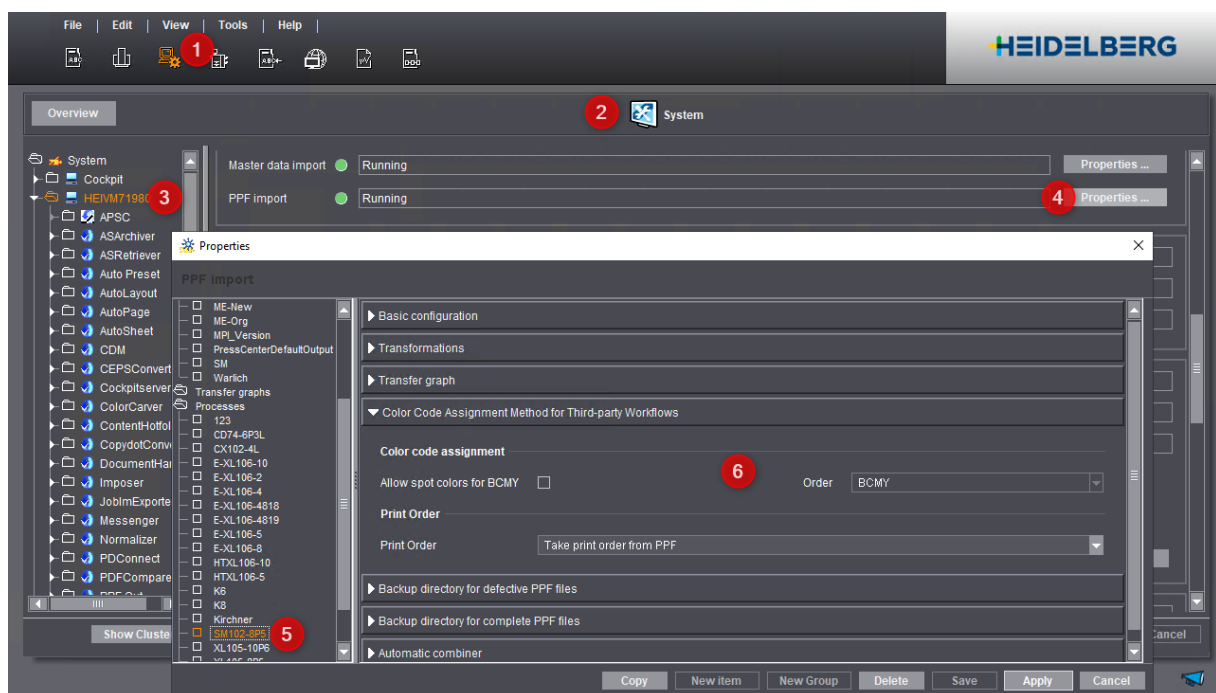
Example for color order in the PPF:

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.

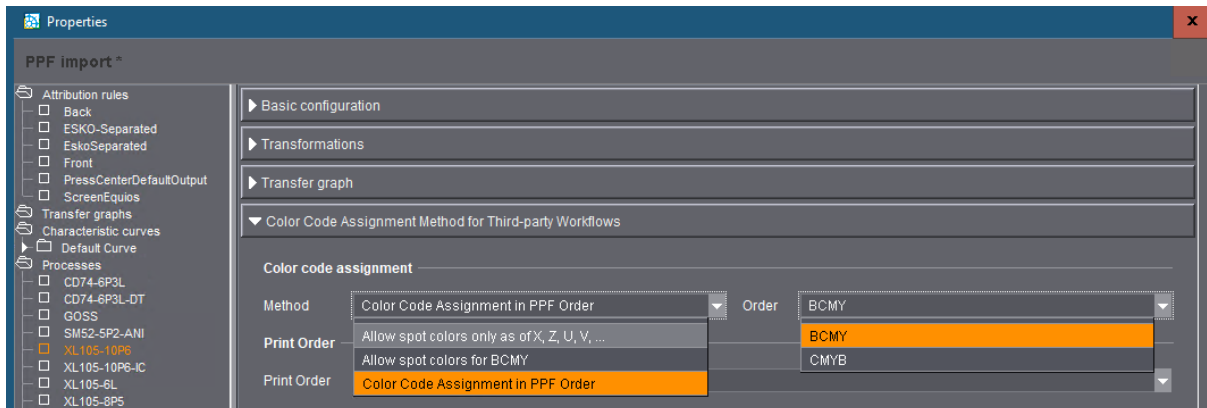


In Prinect 2020.10 we have 3 options to handle spot color for color bar assignment:

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!



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"

Color 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"

Color Name => Order: BMCY => Order: CMYK

- | | | |
|-------------|------|------|
| 1. PLM 1234 | => B | => C |
| 2. Yellow | => C | => M |
| 3. PLM 5678 | => M | => Y |
| 4. PLM 9876 | => Y | => K |

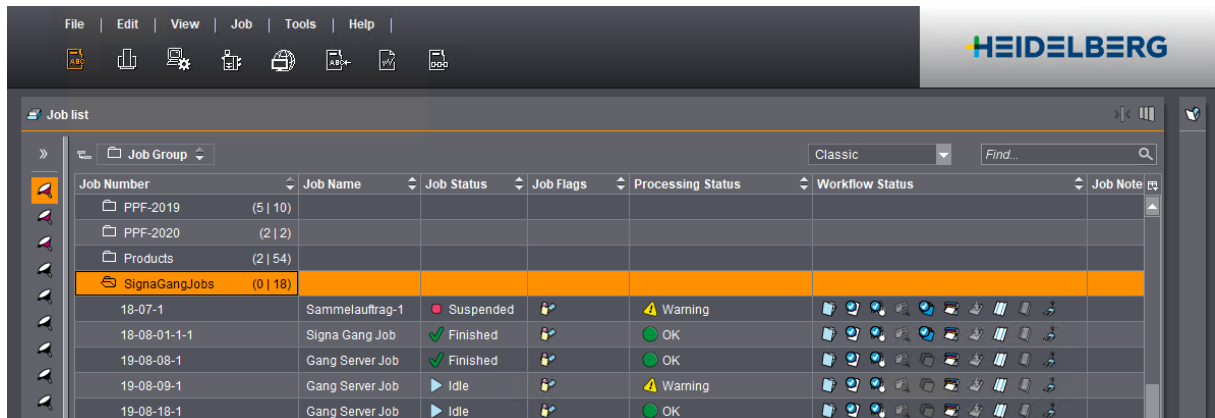
1.3.2 Job Directory for Signa Gang Server Jobs

2020.10

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

Motivation

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

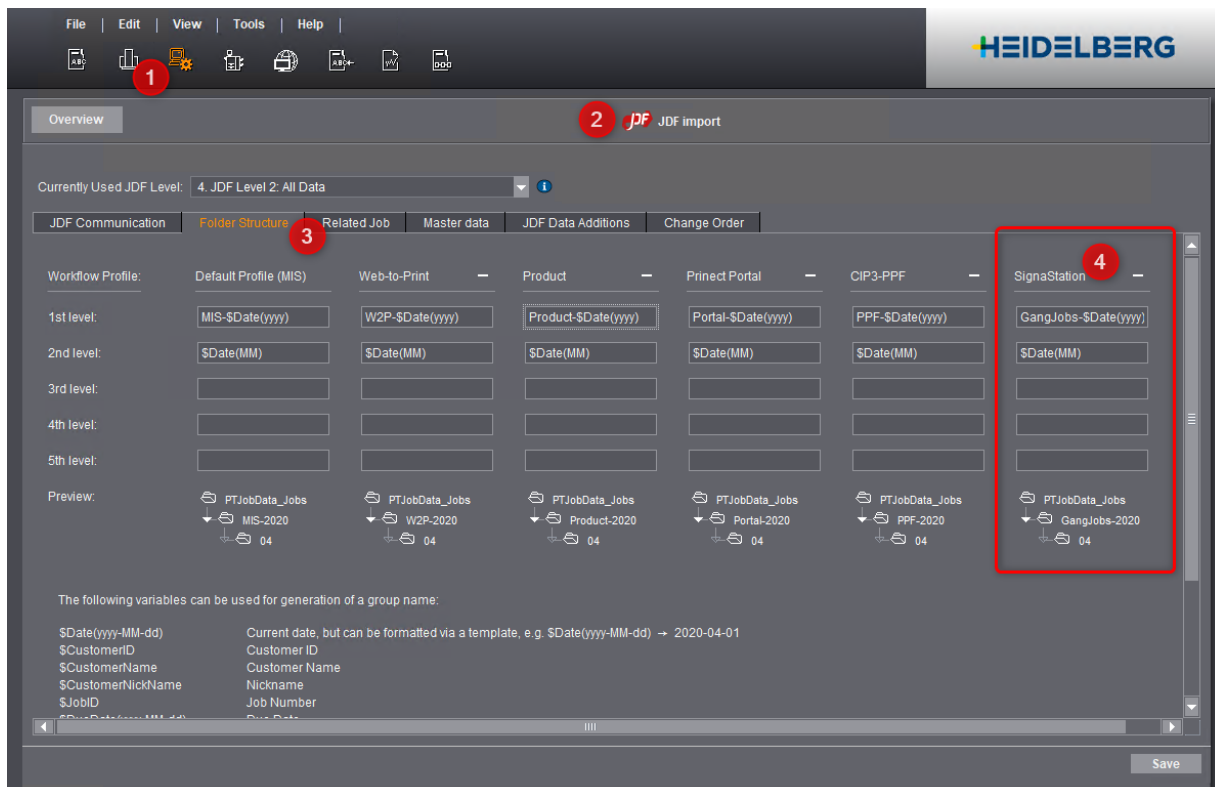


To increase the handling of Gang Server jobs customers want to define directories dynamically.

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.



1 System - Cockpit

1.3.3 CDM Device - Fine Tuning of Press Performance Parameters

2020.10

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

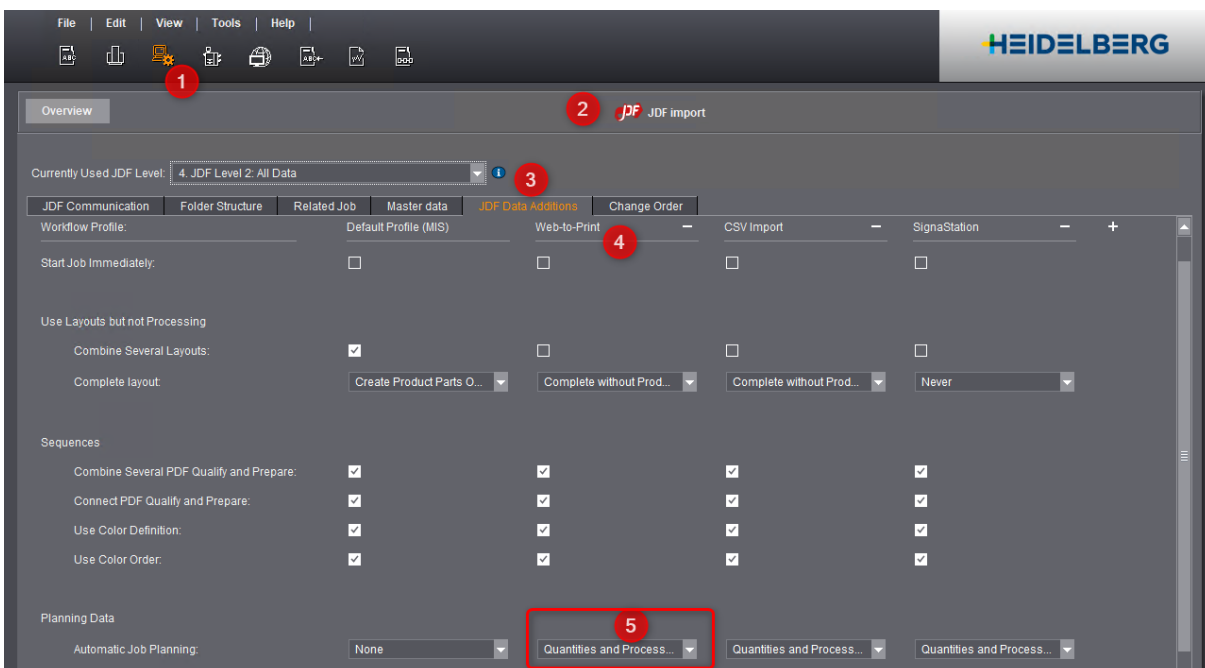
Motivation

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

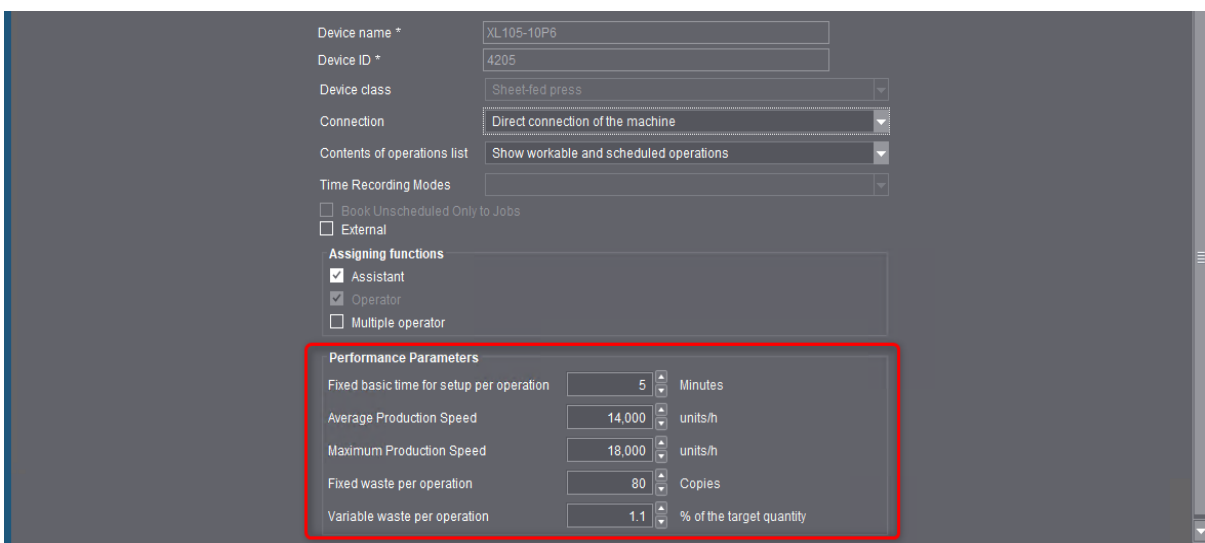
Example: A 1-color job would get the same "make ready time" and "waste" as a 6-color job.

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.



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

Performance Values per Print Unit

Additional Values for Setup

Depending on the number of colors, these values are added to the general performance data of the press.

Number of Colors	Additional Makeready Time (Minutes)	Additional Waste (Copies)
1	5	20
2	5	25
3	5	30
4	5	35
5	7	40
6	7	45
7	7	50
8	7	55
9	10	80
10	10	90

Apply Cancel



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 System - Cockpit

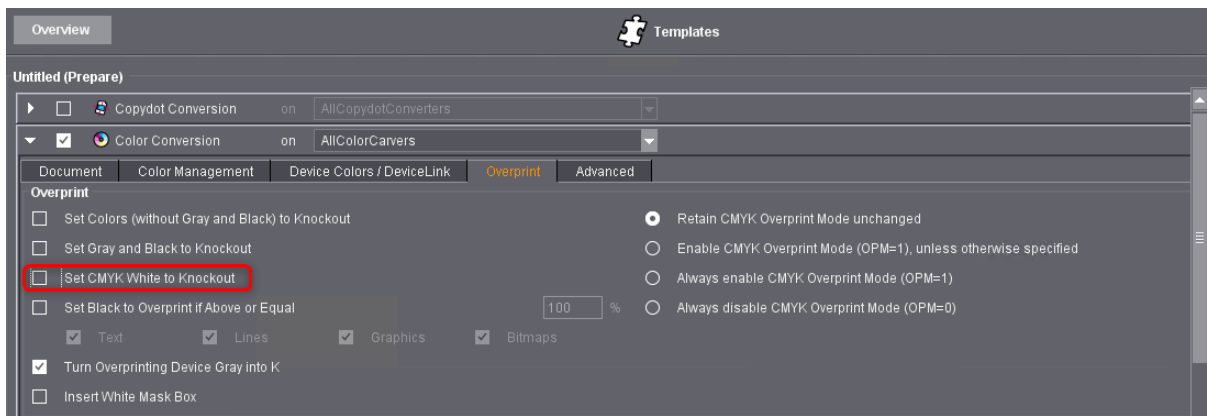
1.4 Templates

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.

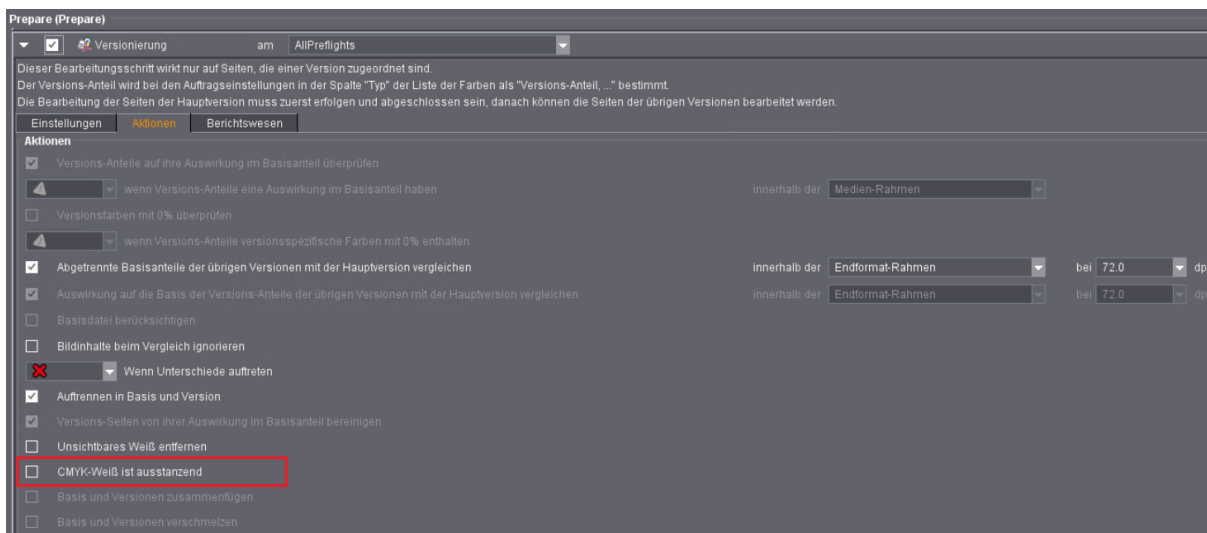
For version jobs we should disable this feature in Prepare / Color Conversion and do this in Prepare Versioning.



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.



1.4.2 Preflight - Respect or Ignore PDF Color Order

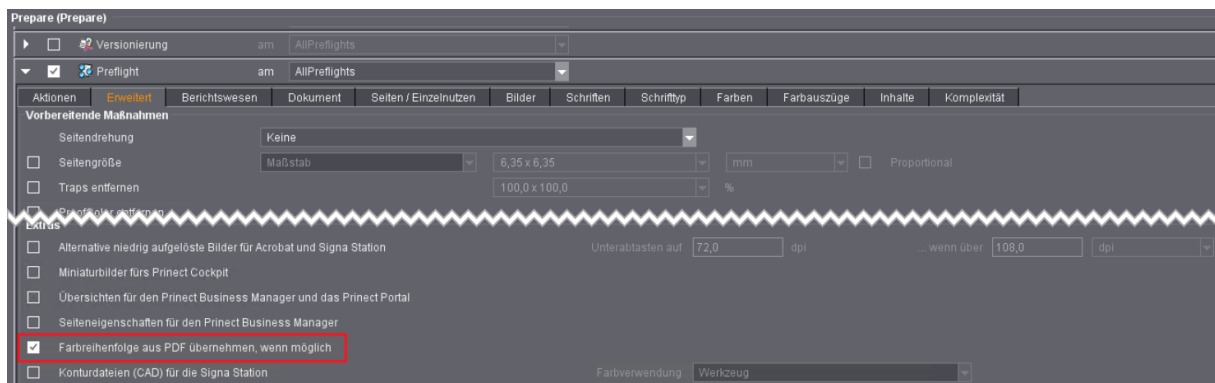
Motivation

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

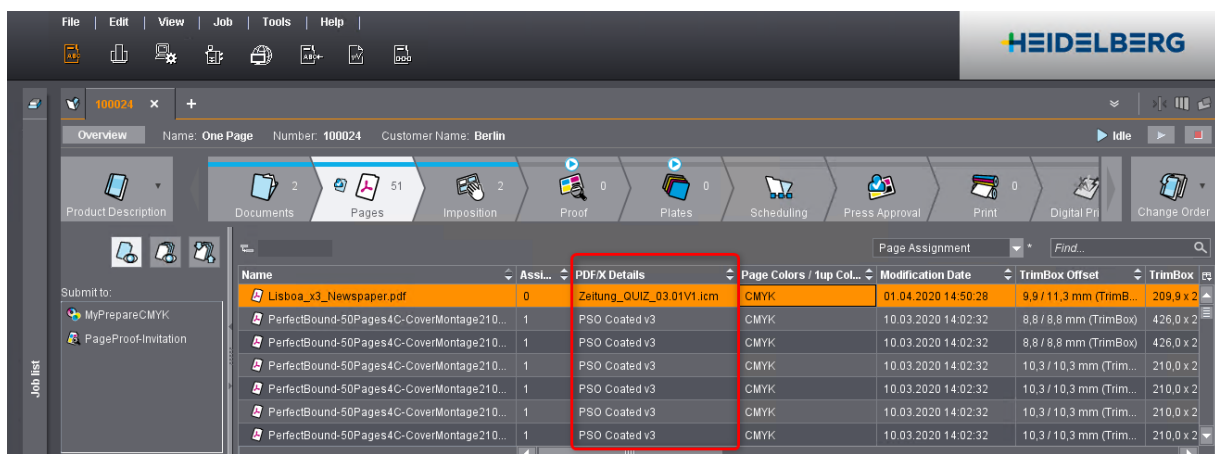
1.5.1 Pages - Display of the PDF/X-Output Intent

Motivation

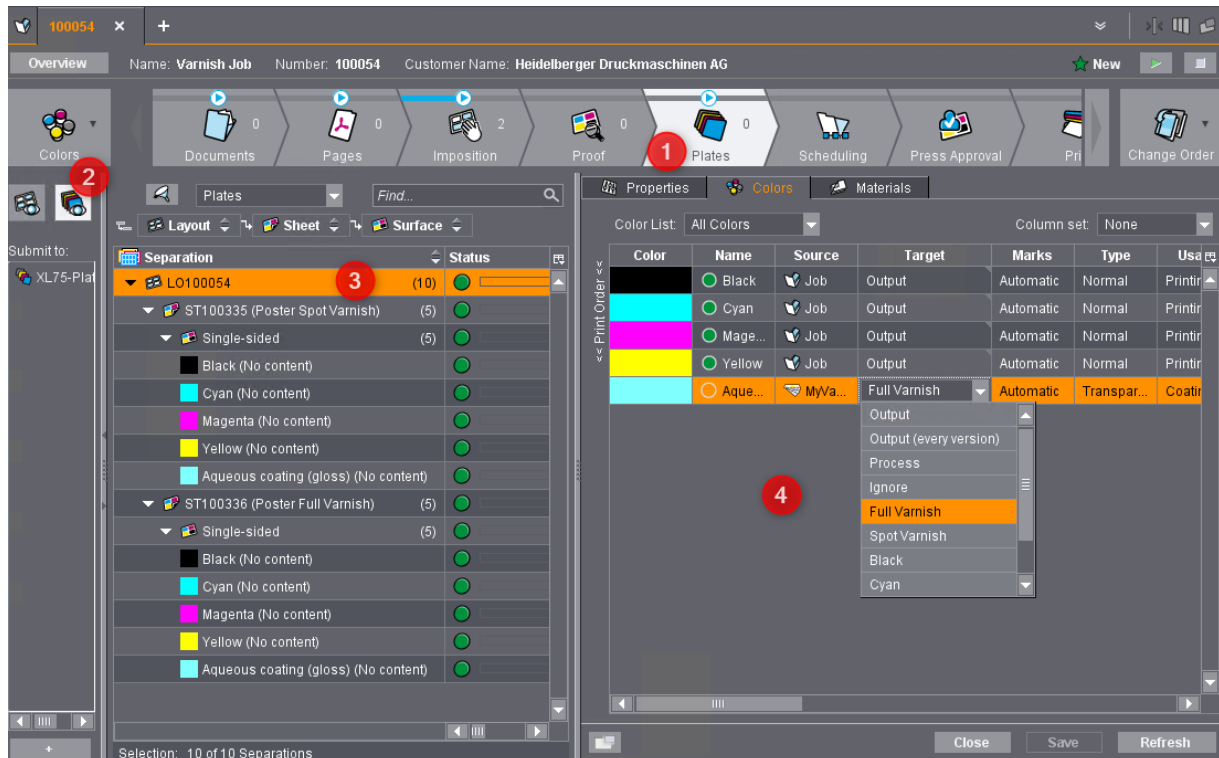
Customers want to know about PDF/X details and output intent.

Description

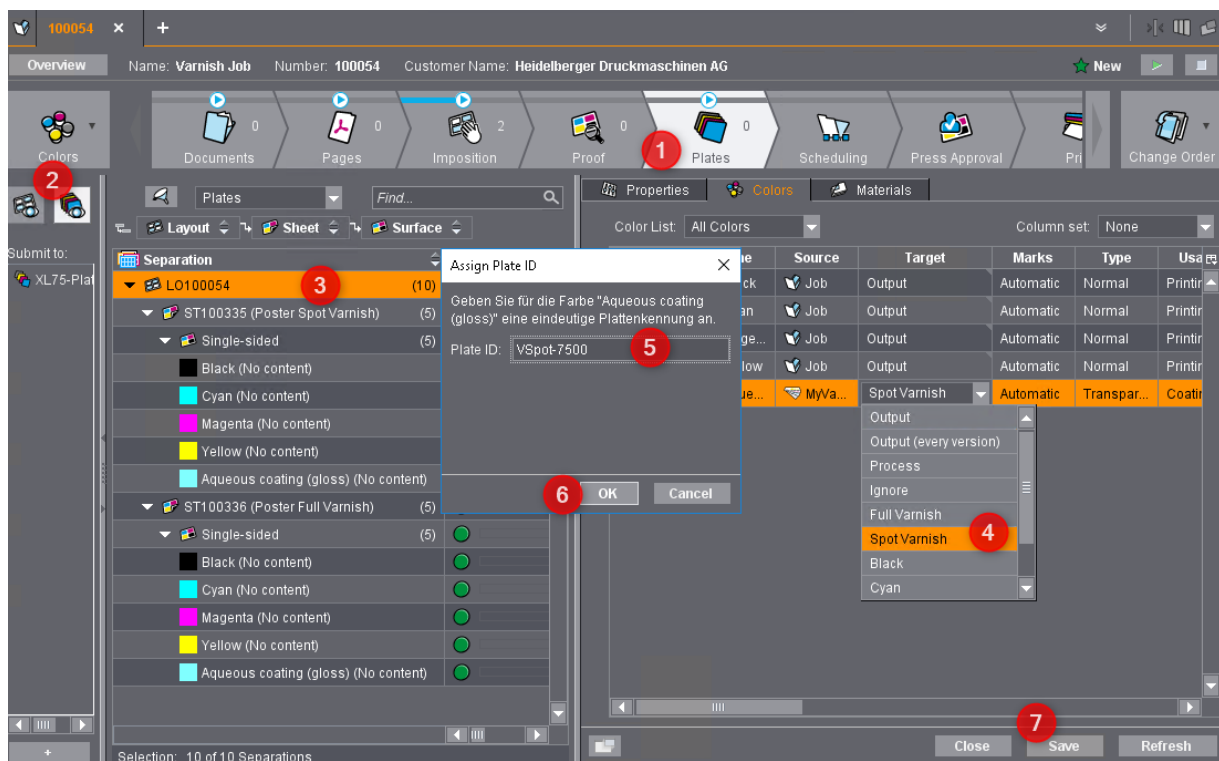
In the column "PDF/X Details we have only shown the PDF/X version, now we display the PDF Output Intent.



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.



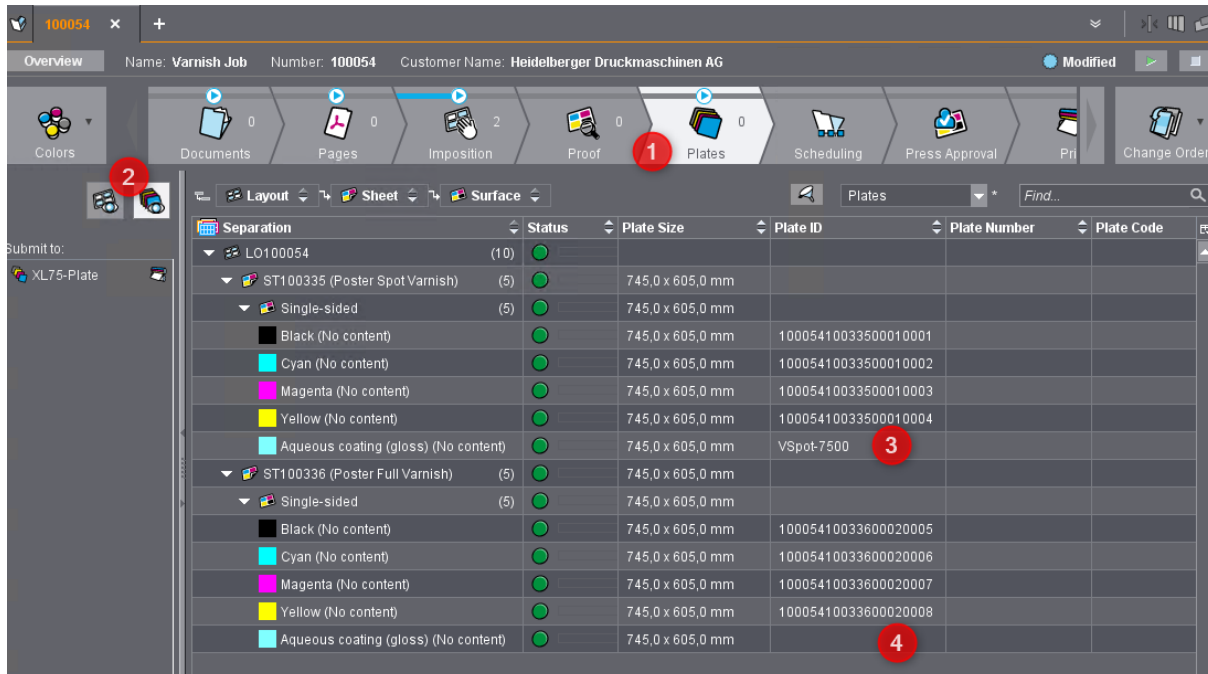
When we change the varnish to a Spot Varnish, the UI is asking for a "Plate ID". We are using the Plate ID as a reference to the plate archive.



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.

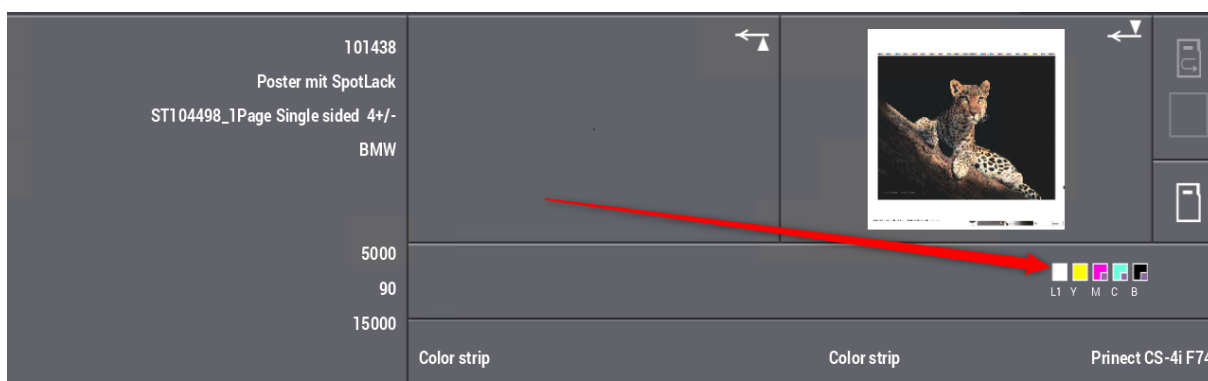


Important: Since Prinect 2020 we have implemented the "Varnish Application". It is necessary to define "Usage - Coating Unit" **AND** "Coating - selection of a defined varnish".

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

Color List: Existing Colors		Output Profile: No output profile selected									
Color	Name	Source	Target	Marks	Type	Usage	Coating	C	M	Y	K
Black	Black	Job	Output	Automatic	Normal	Printing Unit		0,0	0,0	0,0	100,0
Cyan	Cyan	Job	Output	Automatic	Normal	Printing Unit		100,0	0,0	0,0	0,0
Magenta	Magenta	Job	Output	Automatic	Normal	Printing Unit		0,0	100,0	0,0	0,0
Yellow	Yellow	Job	Output	Automatic	Normal	Printing Unit		0,0	0,0	100,0	0,0
MLS	MLS	Job	Output	Automatic	Transparent	Coating unit 1	Aqueous High Gloss Varnish 2	0,0	100,0	0,0	0,0
ProofColor	ProofColor	Job	Output	Automatic	DieLine	Proof		100,0	0,0	100,0	0,0

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



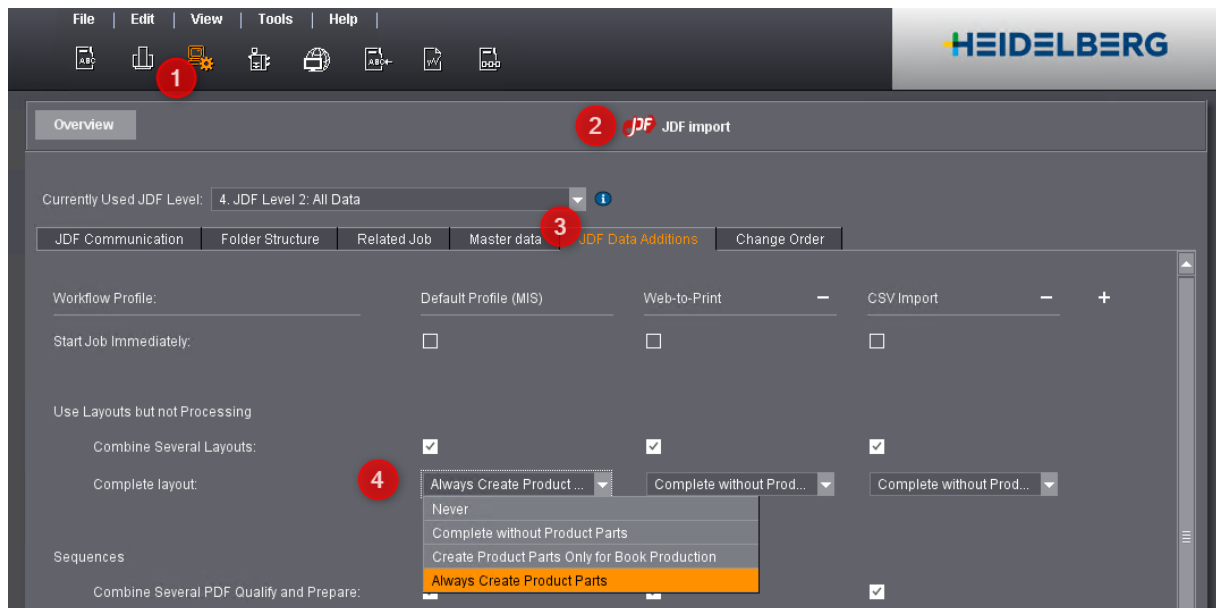
1.5.3 Layout - Version Layout Import with Page List for Product Parts

Motivation

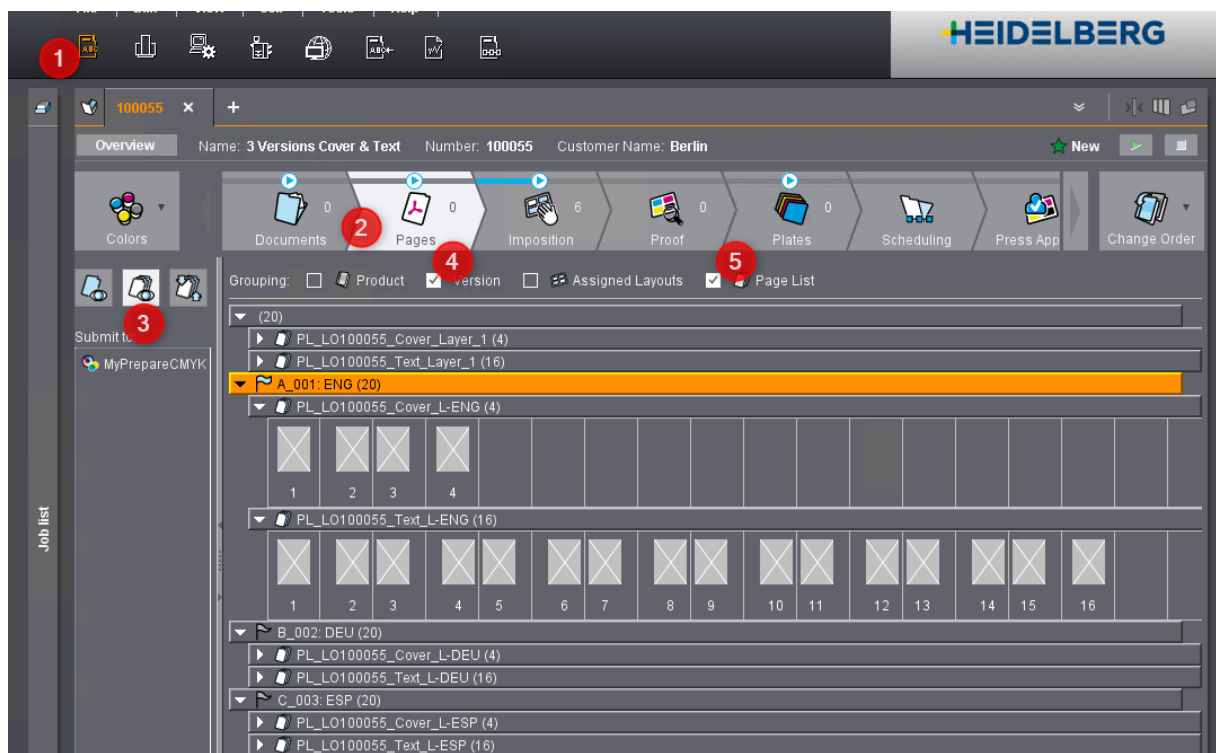
Since Prinect 2020 we can create separate page lists for every MIS defined product part - necessary for hard cover book production. It would be nice to do this for version jobs too.

Description

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



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



1 System - Cockpit

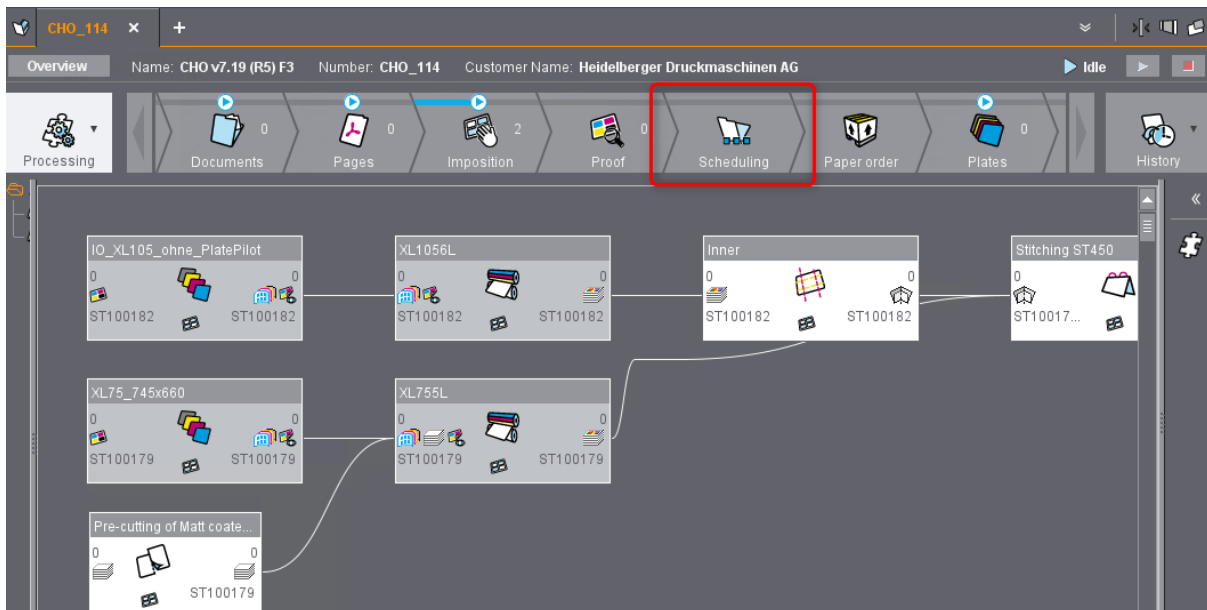
1.5.4 Workflow Step "Scheduling"

Motivation

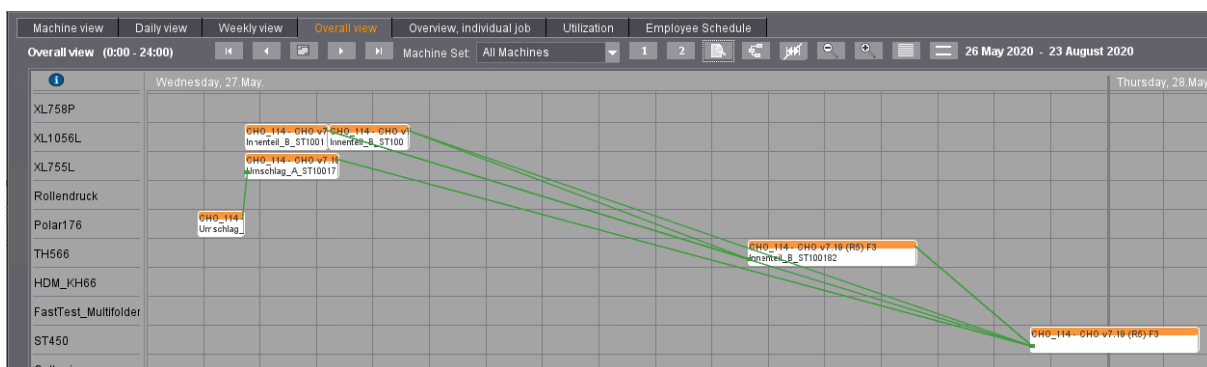
MIS Customers want to have the information about job scheduling.

Description

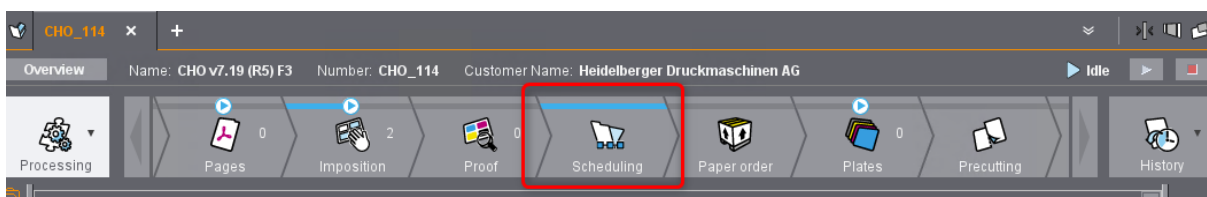
In Prinect 2021 we have a new standard milestone "Scheduling". It is possible to disable this Milestone in "Cockpit > Administration > Workflow Steps".



After planning all operations in the Prinect Scheduler...



... the milestone is automatically reached.



Note: In the Prinect Business Manager this milestones is displayed too!

2 Renderer - Shooter

2.1 Renderer User Interface

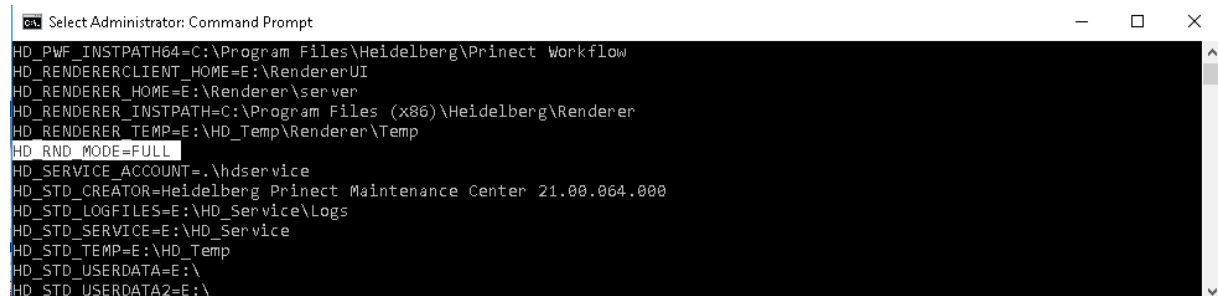
Motivation

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

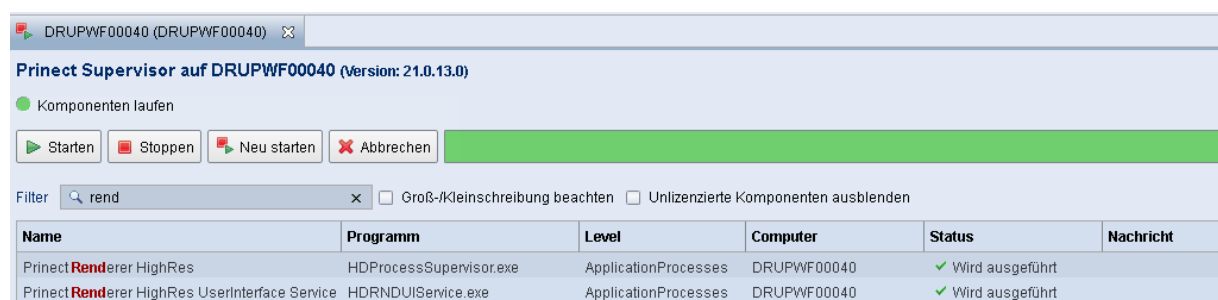
After installation / Upgrade to Prinect 2021 the environment variable "HD_RND_MODE" has changed:

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



```
Select Administrator: Command Prompt
HD_PWF_INSPATH64=C:\Program Files\Heidelberg\Prinect Workflow
HD_RENDERERCLIENT_HOME=E:\RendererUI
HD_RENDERER_HOME=E:\Renderer\server
HD_RENDERER_INSPATH=C:\Program Files (x86)\Heidelberg\Renderer
HD_RENDERER_TEMP=E:\HD_Temp\Renderer\Temp
HD_RND_MODE=FULL
HD_SERVICE_ACCOUNT=.\\hdservice
HD_STD_CREATOR=Heidelberg Prinect Maintenance Center 21.00.064.000
HD_STD_LOGFILES=E:\HD_Service\Logs
HD_STD_SERVICE=E:\HD_Service
HD_STD_TEMP=E:\HD_Temp
HD_STD_USERDATA=E:\
HD_STD_USERDATA2=E:\
```

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



DRUPWF00040 (DRUPWF00040)

Prinect Supervisor auf DRUPWF00040 (Version: 21.0.13.0)

Komponenten laufen

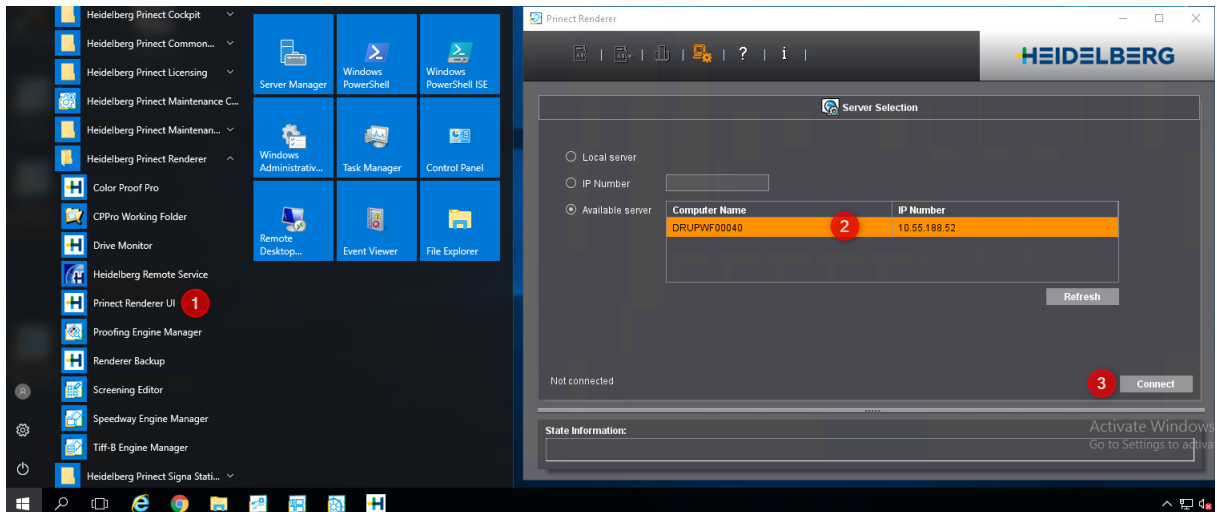
Starten Stoppen Neu starten Abbrechen

Filter: rend Groß-/Kleinschreibung beachten Unlizenzierte Komponenten ausblenden

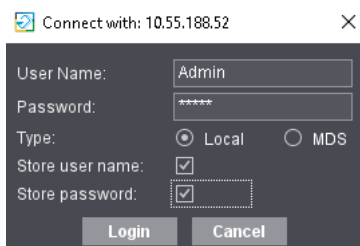
Name	Programm	Level	Computer	Status	Nachricht
Prinect Render er HighRes	HDProcessSupervisor.exe	ApplicationProcesses	DRUPWF00040	✓ Wird ausgeführt	
Prinect Render er HighRes UserInterface Service	HDRNDUIService.exe	ApplicationProcesses	DRUPWF00040	✓ Wird ausgeführt	

2 Renderer - Shooter

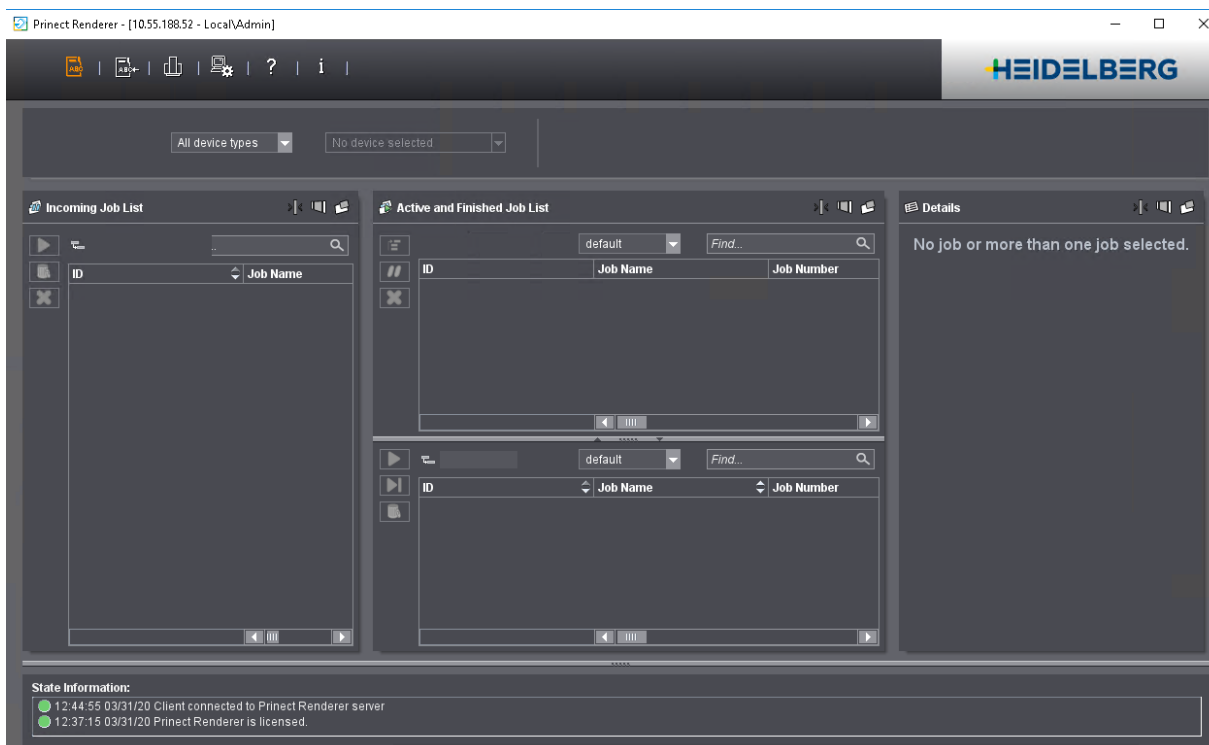
When we start the Renderer UI from the desktop icon or via Windows Start menu...



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

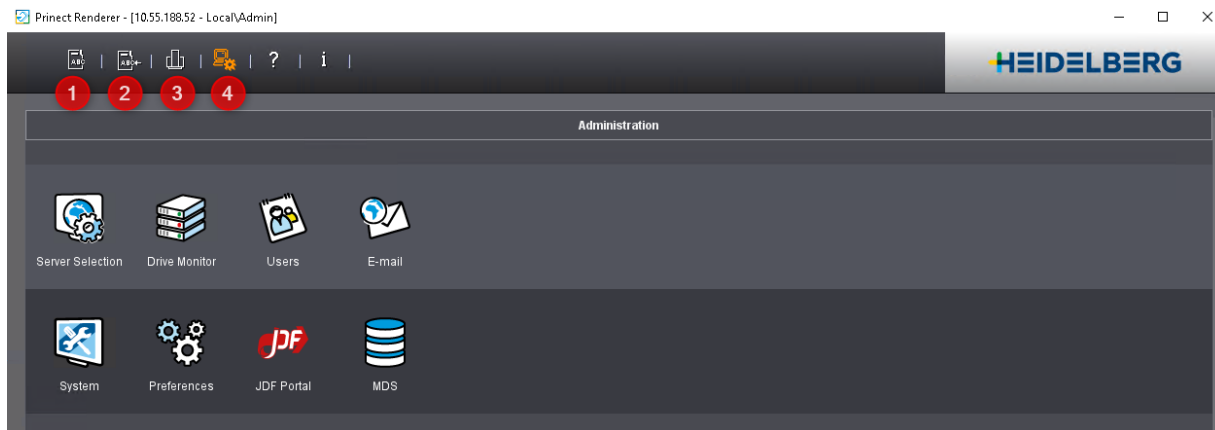


The Renderer UI looks very similar to the Shooter 2 UI.



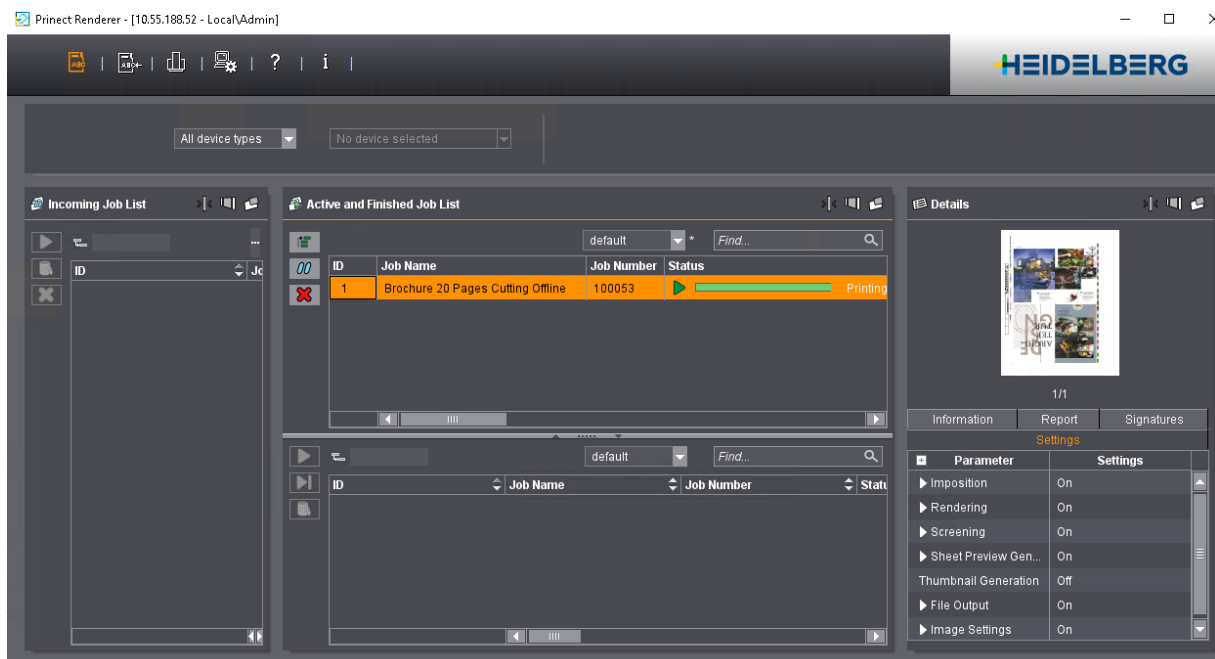
Even the main menu is identical to the Shooter 2, except for devices

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



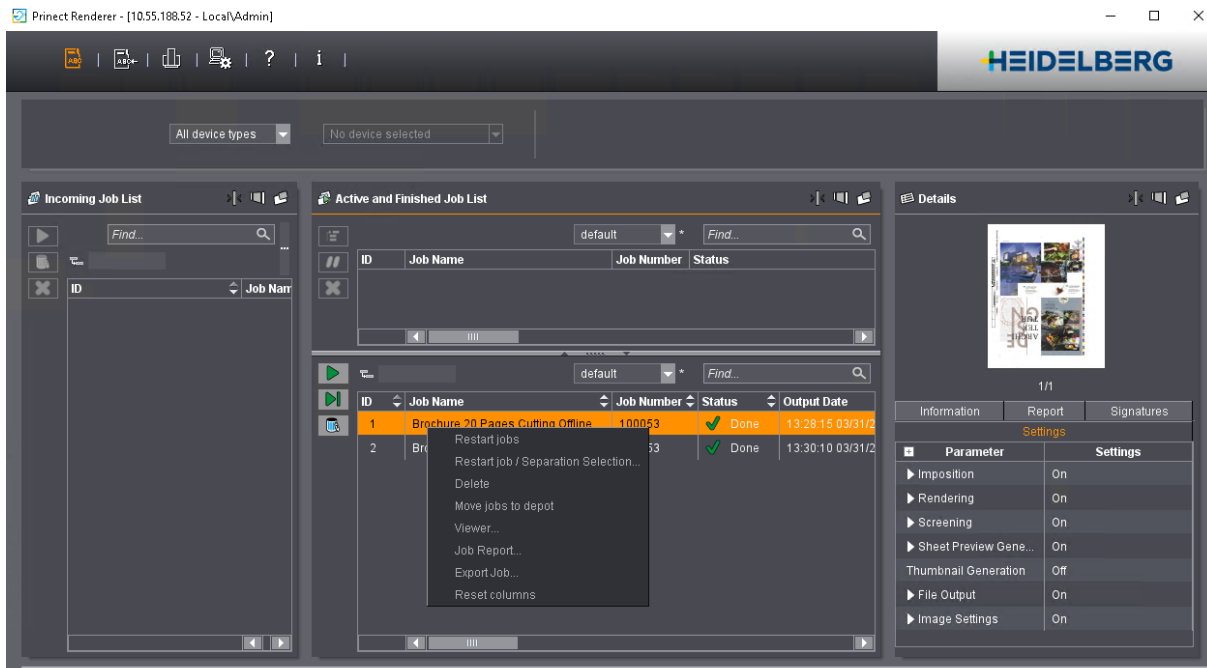
A running job, started from the Cockpit with an Imposition Output template.

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

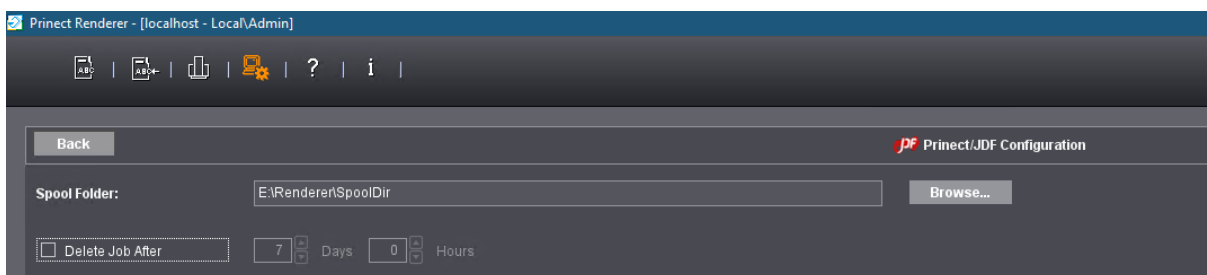
The location for finished jobs and the sub dialogs are also identical to the Shooter 2 UI.



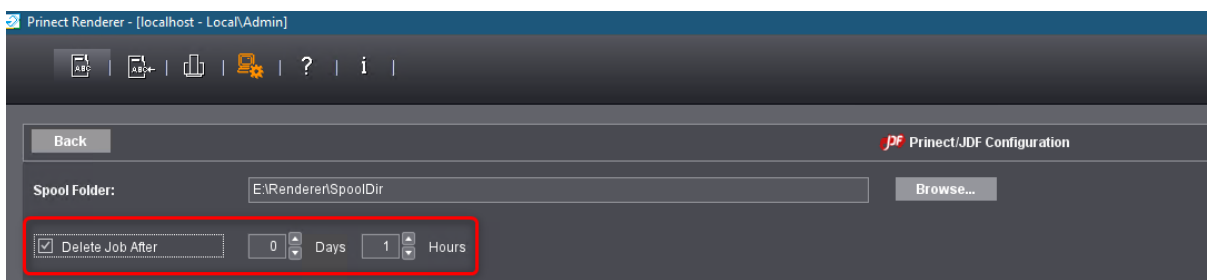
Note: The Renderer UI is Java based only - we do not have a Web-UI at the moment.



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



We should change the defaults to delete jobs automatically.



2.2 Renderer Backup & Restore

2020.10

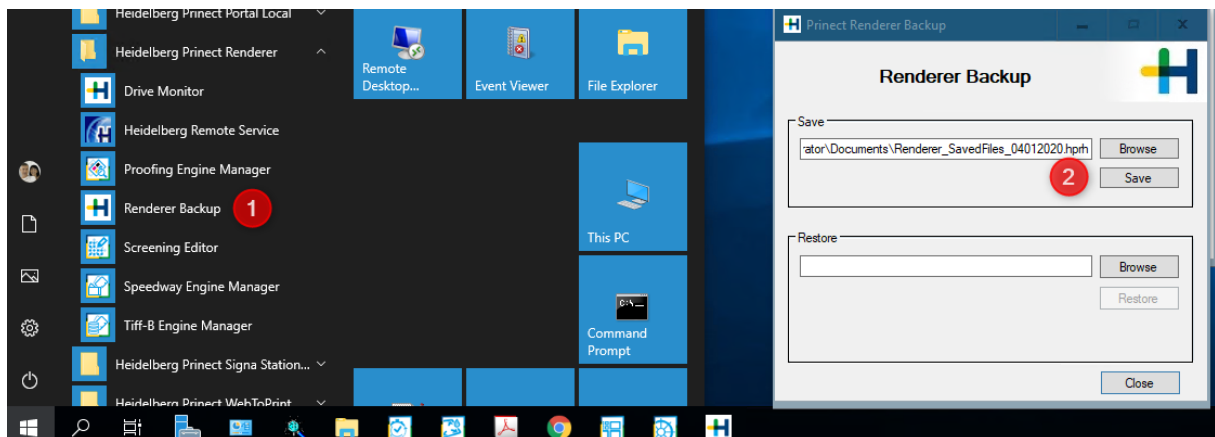
Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

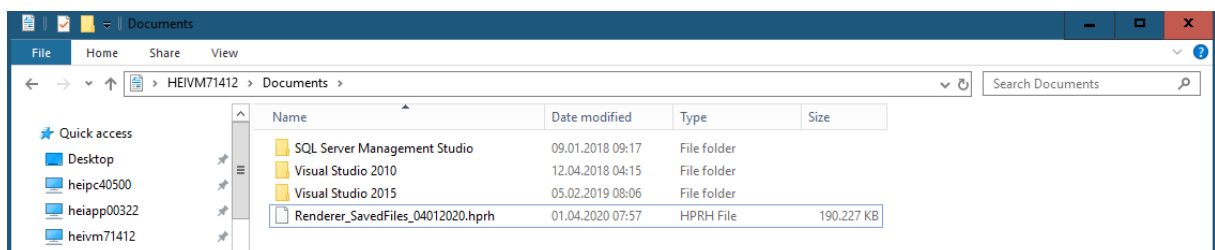
We should have a backup for the Renderer to save all devices and settings.

Description

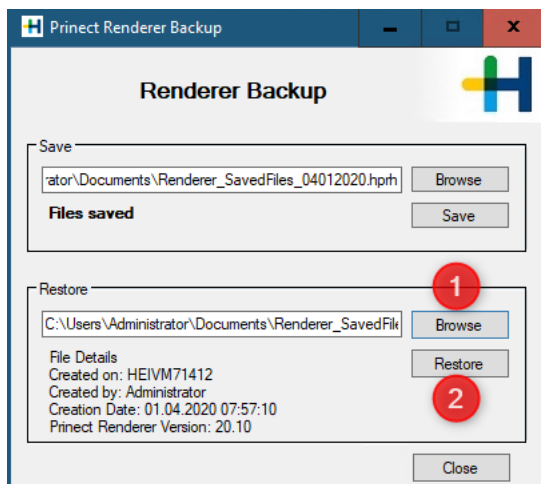
We can find the Renderer backup in the Windows Start menu. The backup needs around 1 minute.



The Backup file...



... can be restored.



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

2020.10

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

Motivation

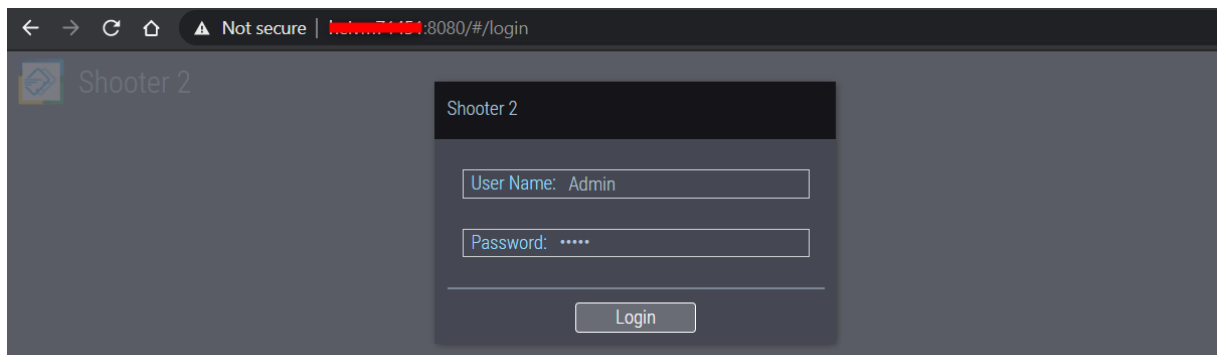
A lot of customers have complained about a missing Web UI to control the Shooter 2.

Description

We have implemented a Web UI to control the Shooter remotely on Mac and Windows computers.

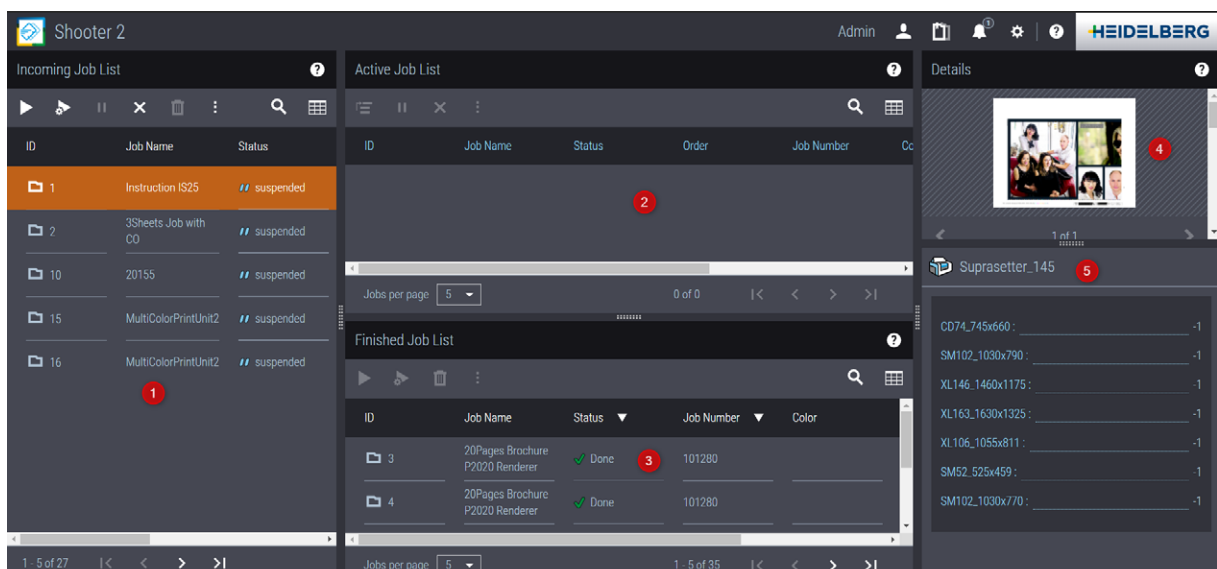
We are using the port `http://"Shooter2Computer":8080`

User/Password: Admin/Admin or User/User

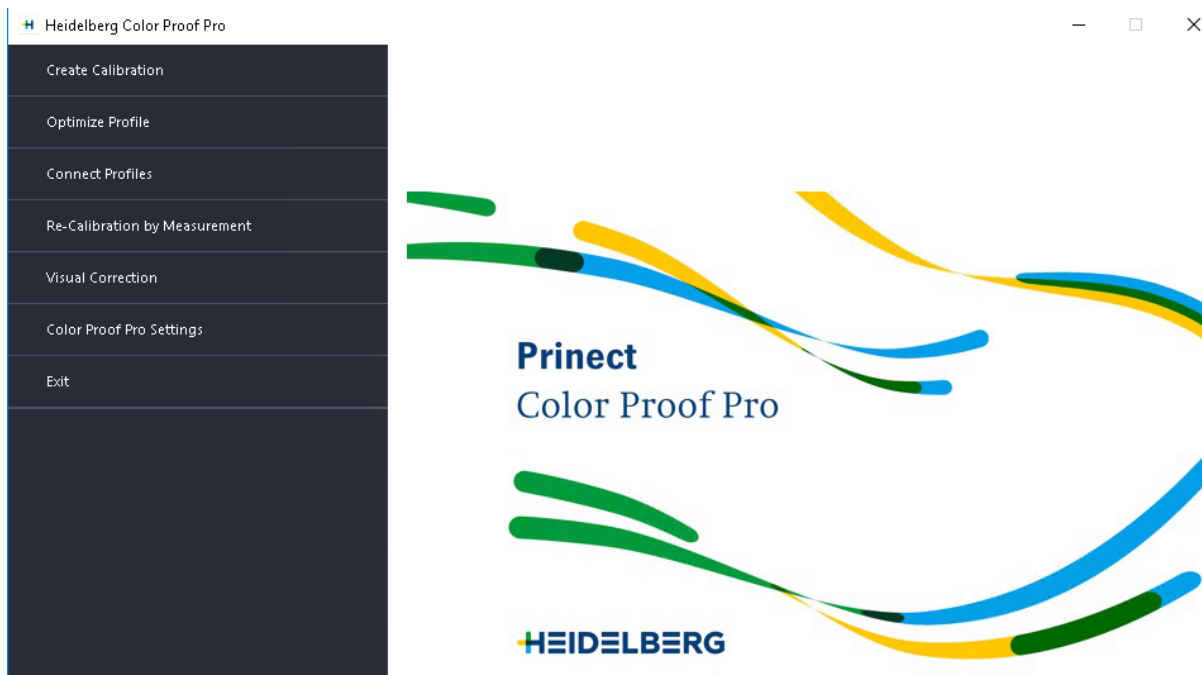


The Shooter Web UI is similar to the Java UI of the Shooter or the Portal UI for digital devices:

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



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.

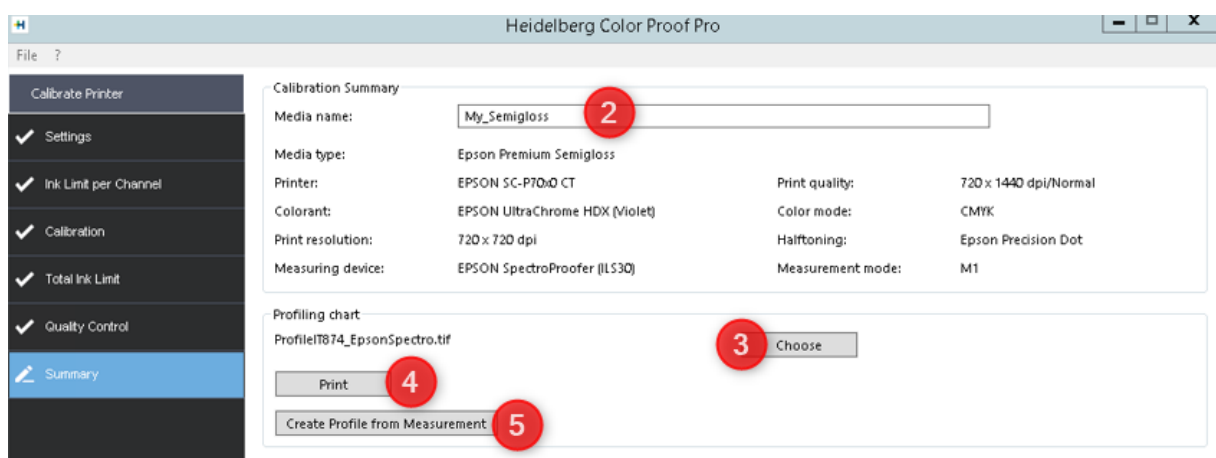
CPP = Color Proof Pro, CT = Color Toolbox

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"



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

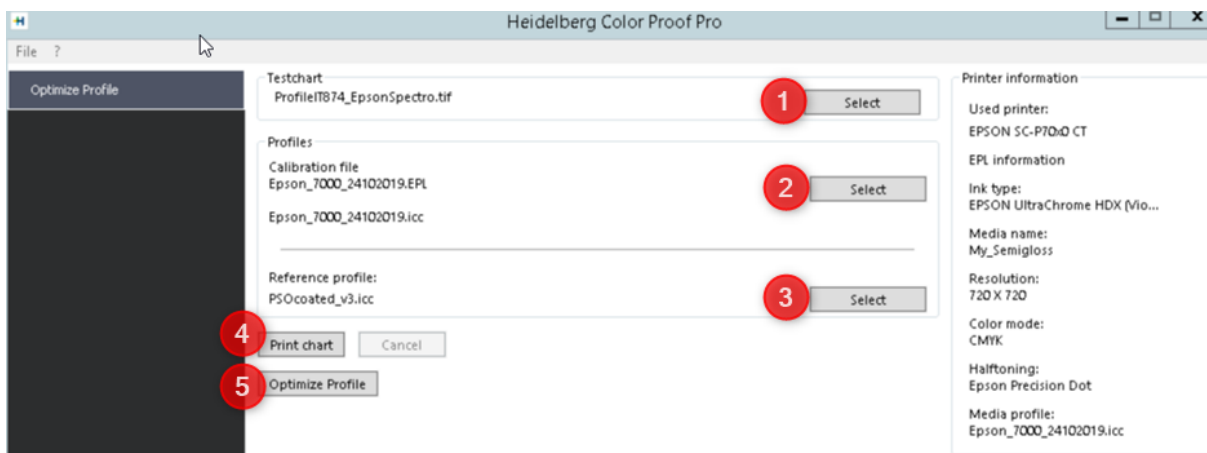
1. CPP - Create a Base Linearisation (EPL)
2. CPP - Print and Measure the profiling chart
3. CT - Open profile to be optimized
4. CT - Load reference profile
5. CT - Load measurement data
6. CT - Create optimized profile
7. CT - Save the created profile to the color proof pro working directory
8. CPP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

2 Renderer - Shooter

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"



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.

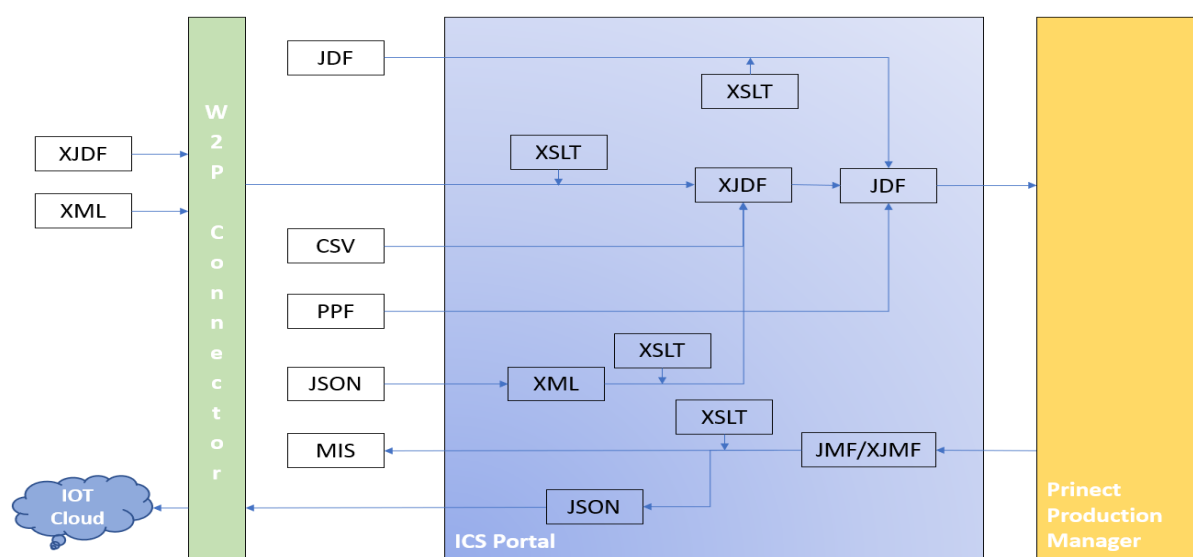
Motivation

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



Link: <https://confluence.prinect-lounge.com/display/PI/Prinect+Interfaces>

3 ICS Portal

3.1 Classic PPF Import

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

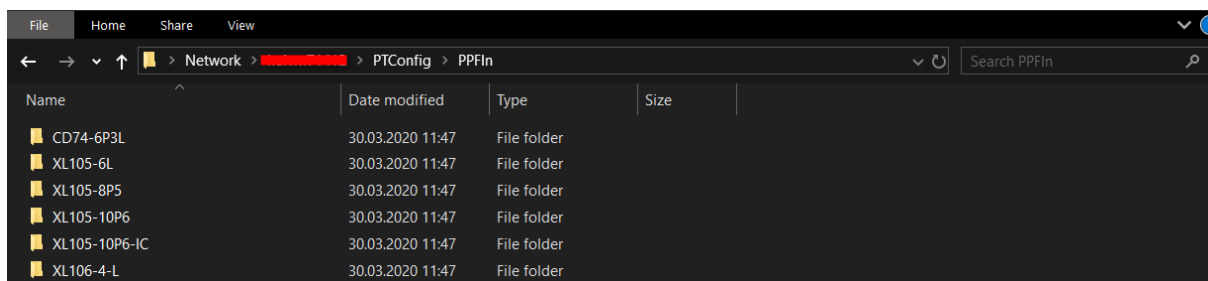
Task	Prinect 2018, 2019, 2020	Prinect 2021
PPF Import	JDF Connector (PPF Handling)	ICS Portal (New PPF Handling)

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).

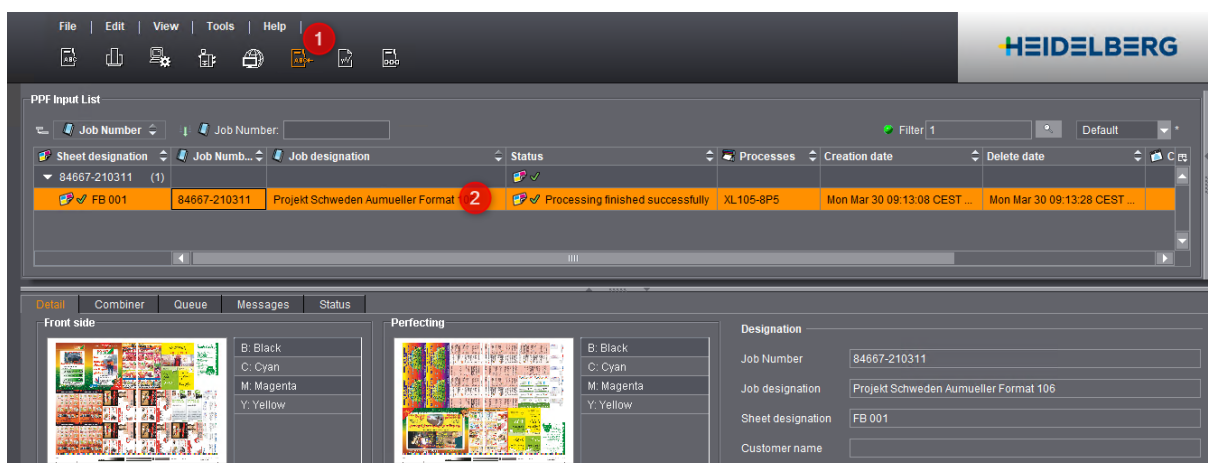
Description

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



Result

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



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 supported anymore and has to be replaced by a new PPF handler => faster, better, bug fixing possible.

Description

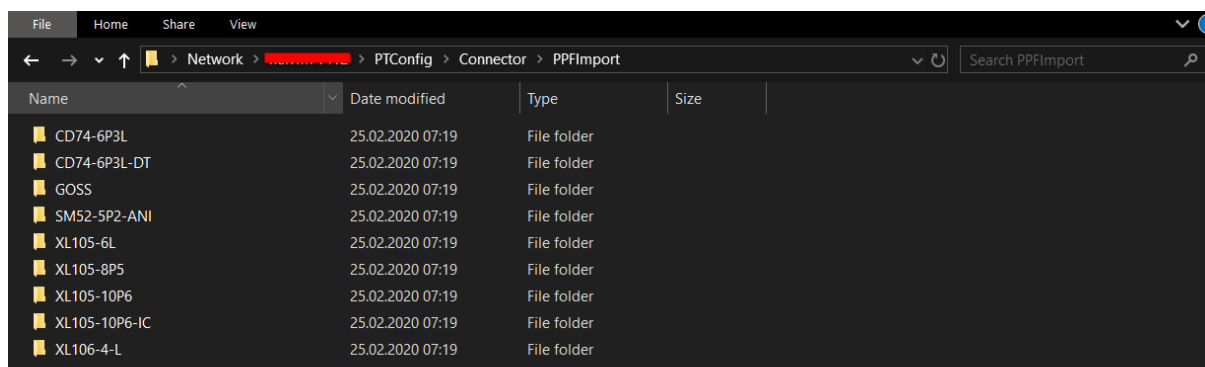
The ICS Portal now supports the new PPF Import (* New Tasks).

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

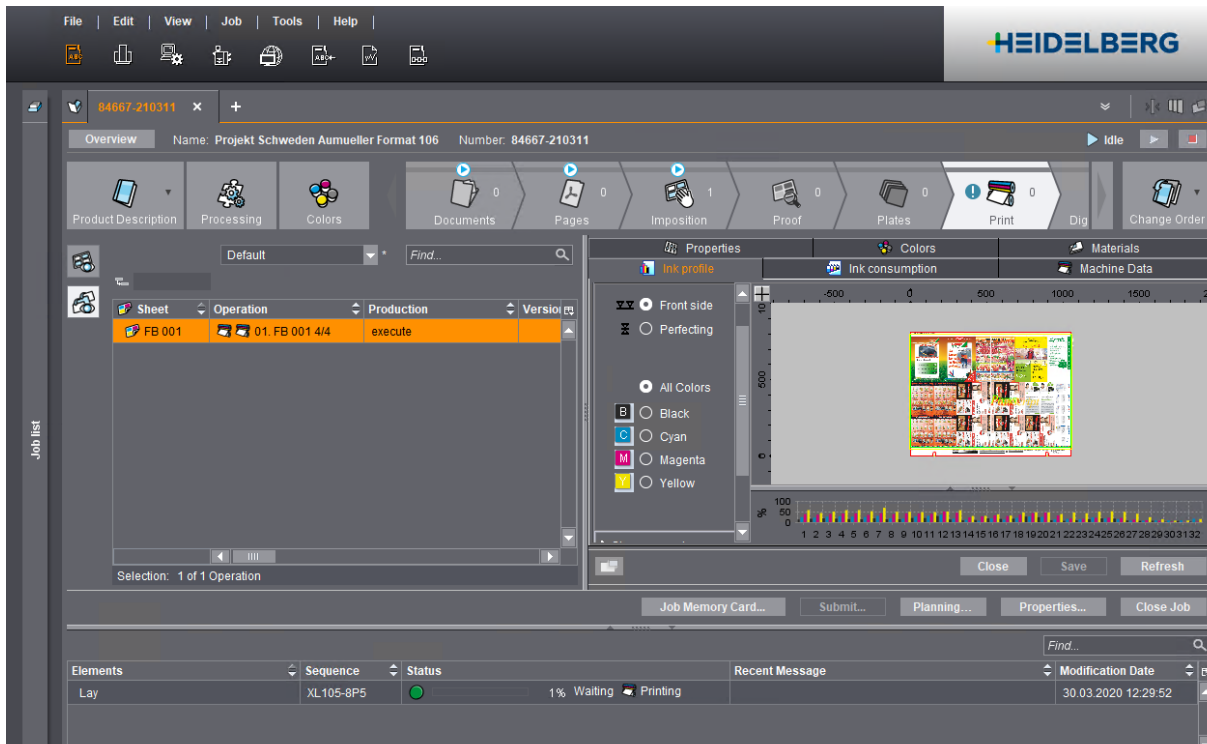
The new Hotfolder for the new PPF Import is now in PTConfig / Connector / PPFImport.



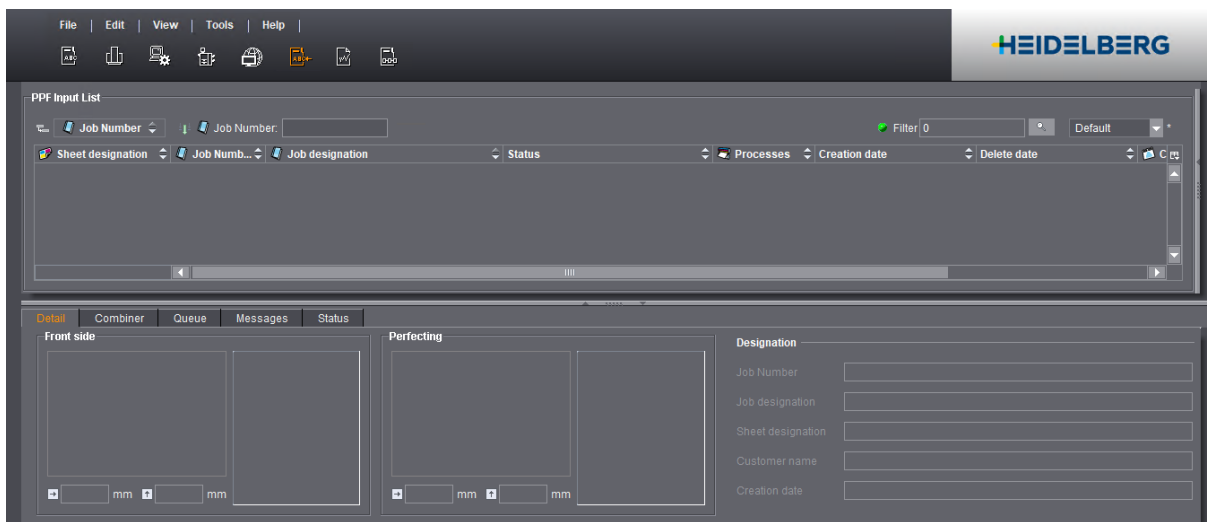
3 ICS Portal

Result

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



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



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

2020.10

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

Motivation

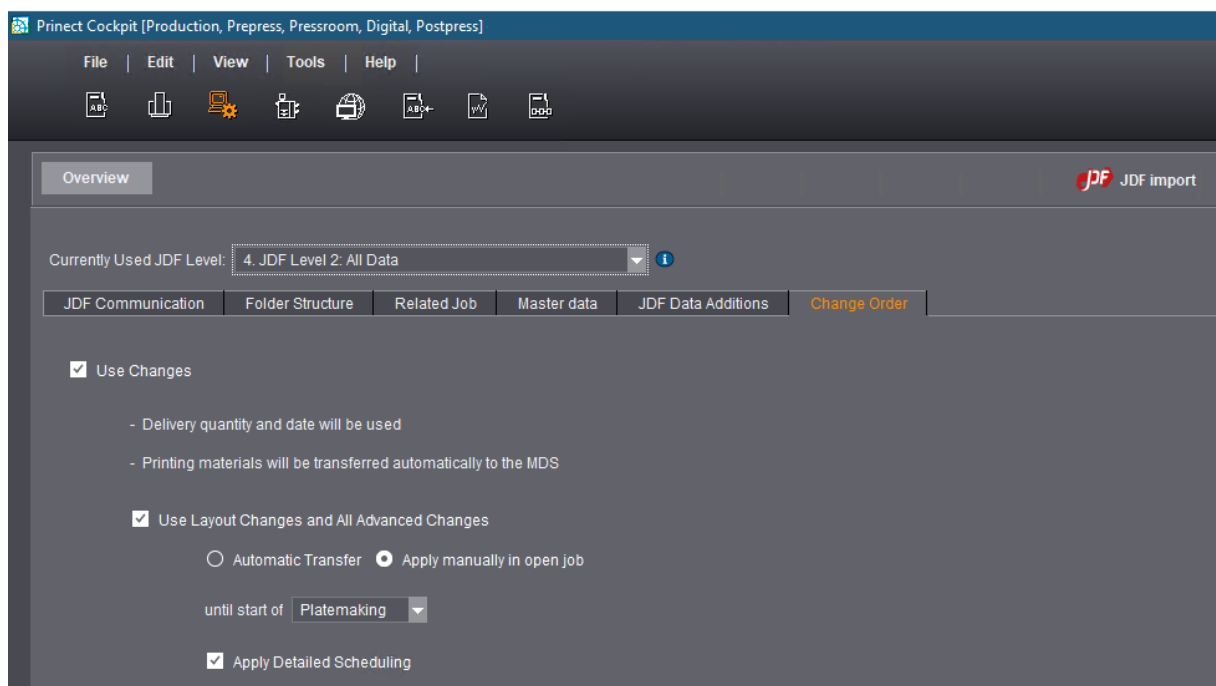
The Change Order process has always compared the last MIS-JDF with the first MIS-JDF. This can be very complex when sheet names and processes have changed => wrong quantities and times.

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.

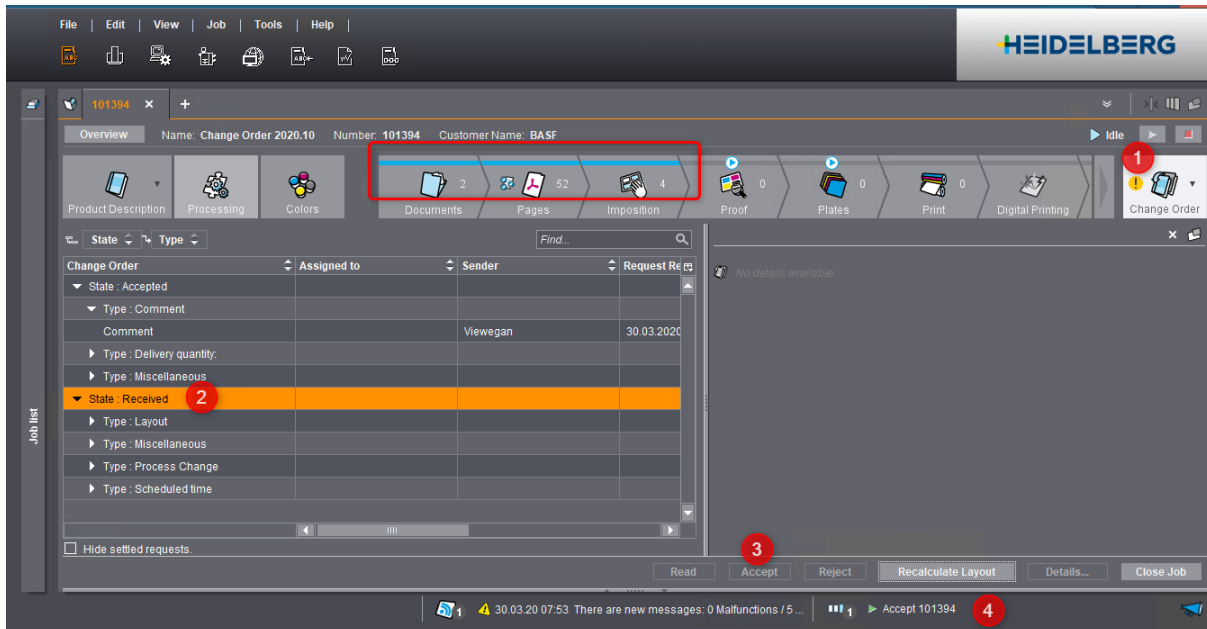
- Automatic Transfer - works like in previous versions: JDF files will be compared and automatically accepted by the system.
- Apply manually in open job - allows to use the new feature "Recalculate Layout" (next page).



3 ICS Portal

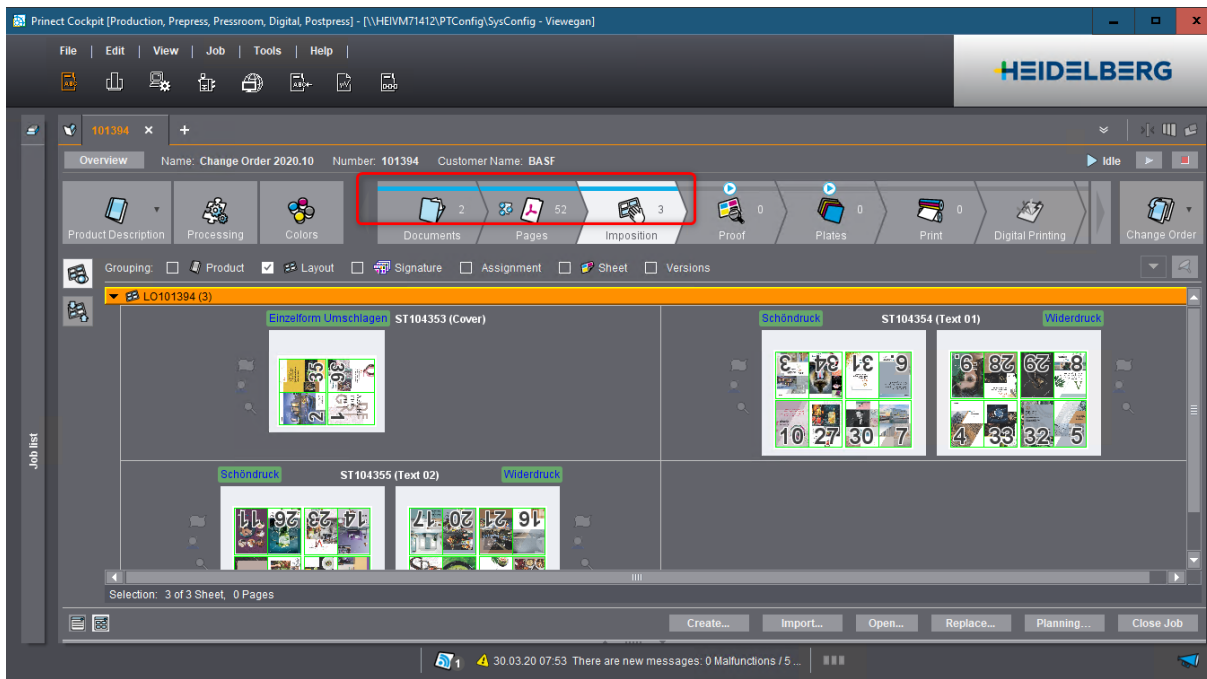
We have now 2 choices:

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



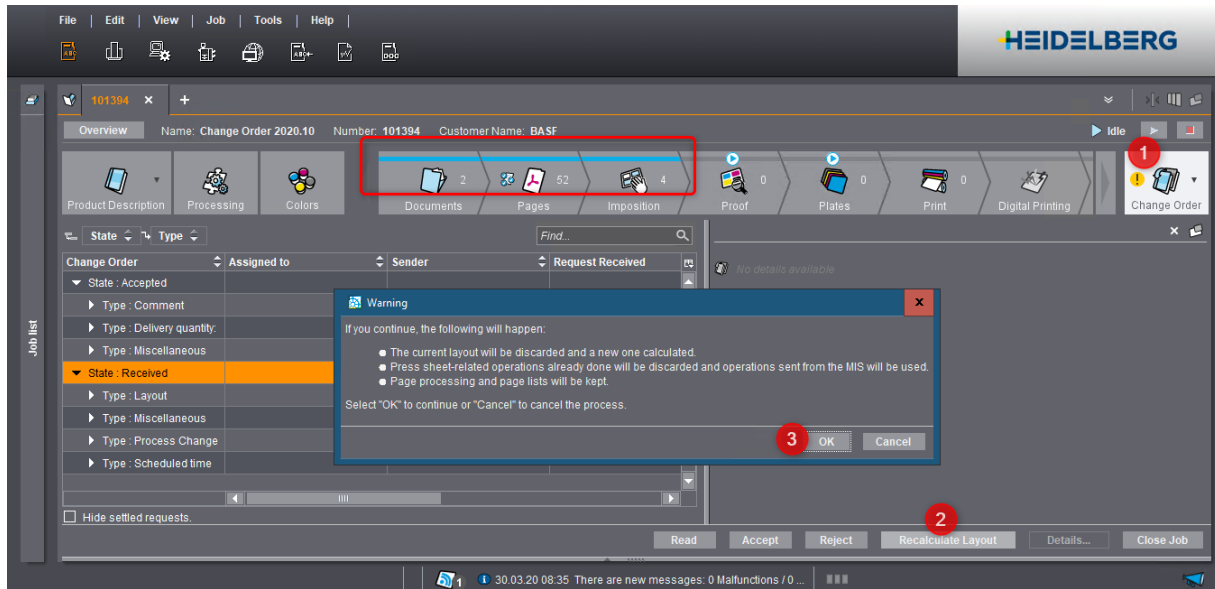
Result:

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



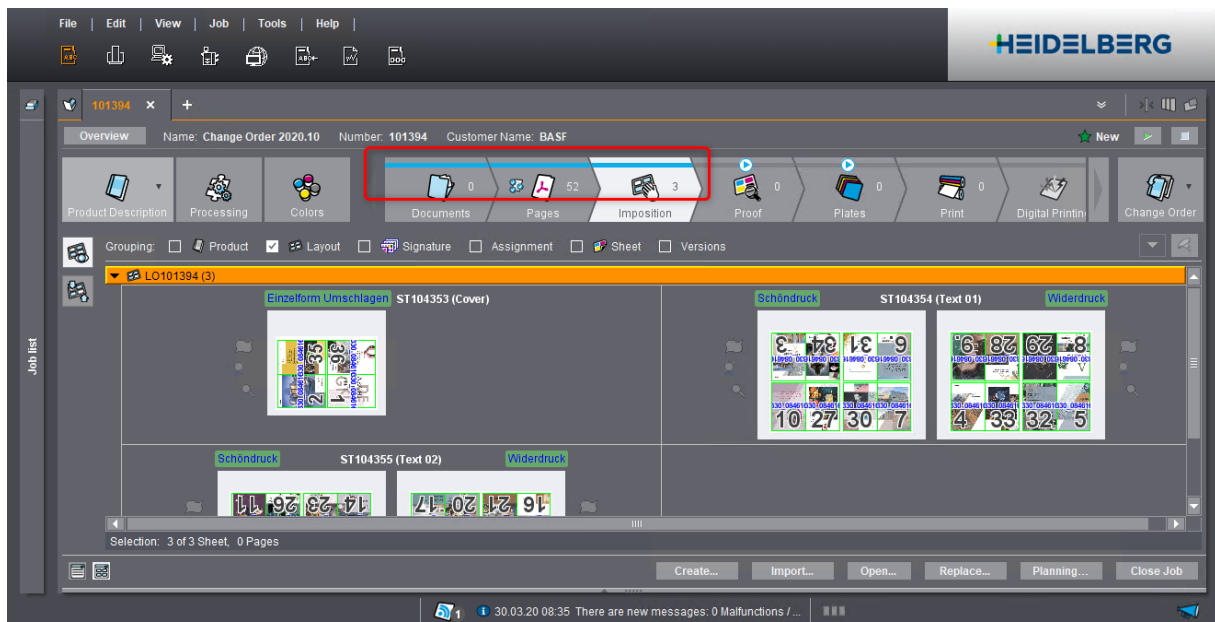
Note: In previous versions the document and the pages would be lost.

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.



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/JDFSSchema_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/JDFSchemas_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:
[\\host\PTConfig\ICSPortal\XSL](#).

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

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



Note: XSL has been available for W2P for years.

3.5 JSON Import



Note: JSON = Java Script Object Notation

Motivation

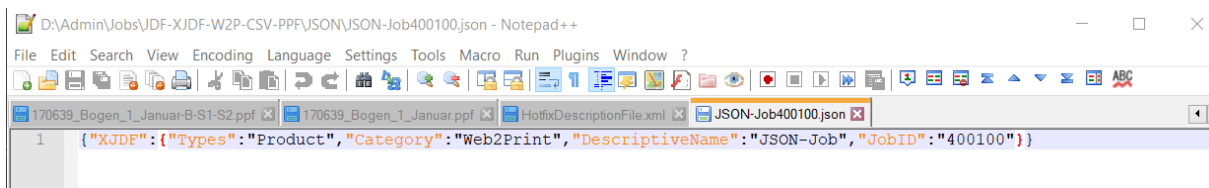
JSON is the current state of art and we should support this format to create Prinect jobs.

Description

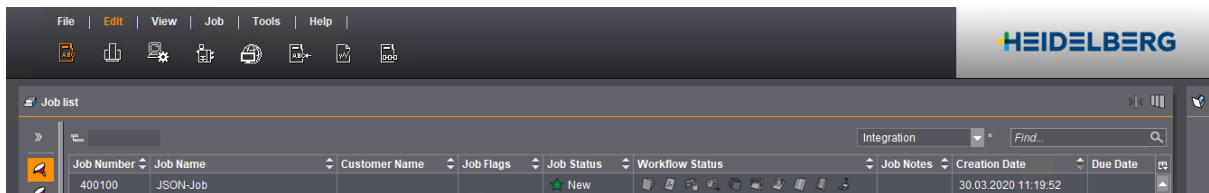
- JSON JDF support
- JSON W2P support
- We can modify JSON with XSL templates
- All hotfolders are JSON enabled (.json; .jsn)

Example

Such a JSON file will create...



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



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 Things

Motivation

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



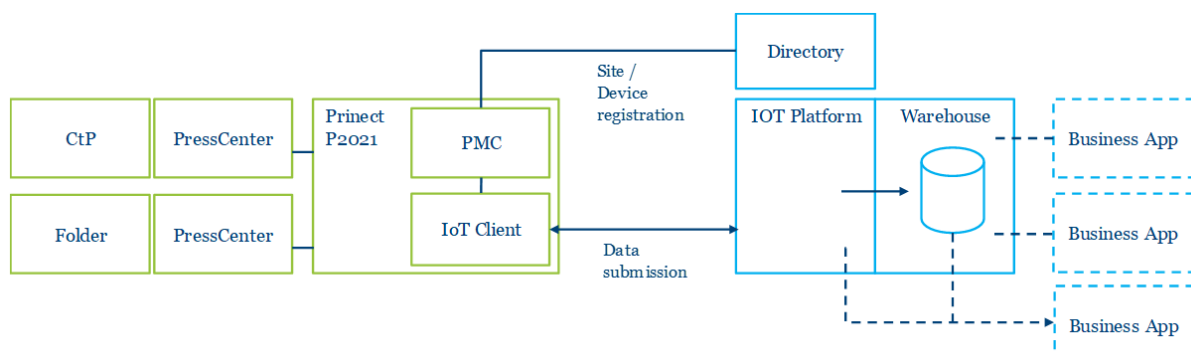
Description

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.



4 Data Terminal

New Data Terminal Full Installer

Motivation

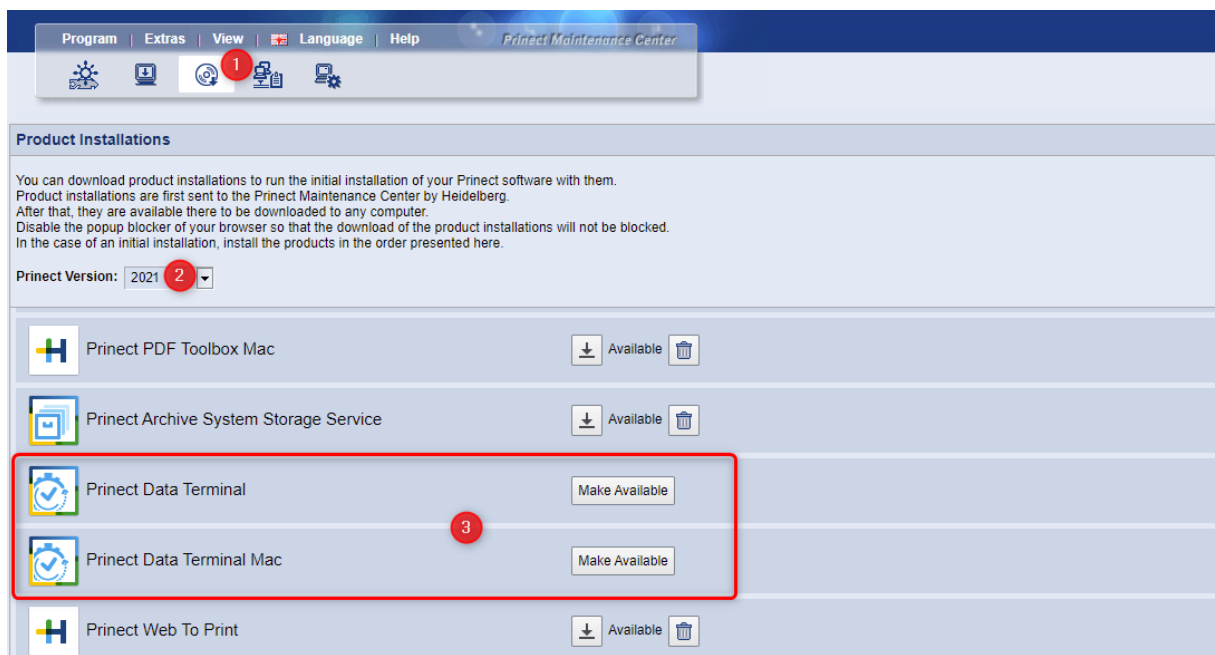
Beginning with Mac OS 10.15, all software must be notarized. For this reason the old installation procedure of the DataTerminal does not work anymore.

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



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.

5 PressCenter

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

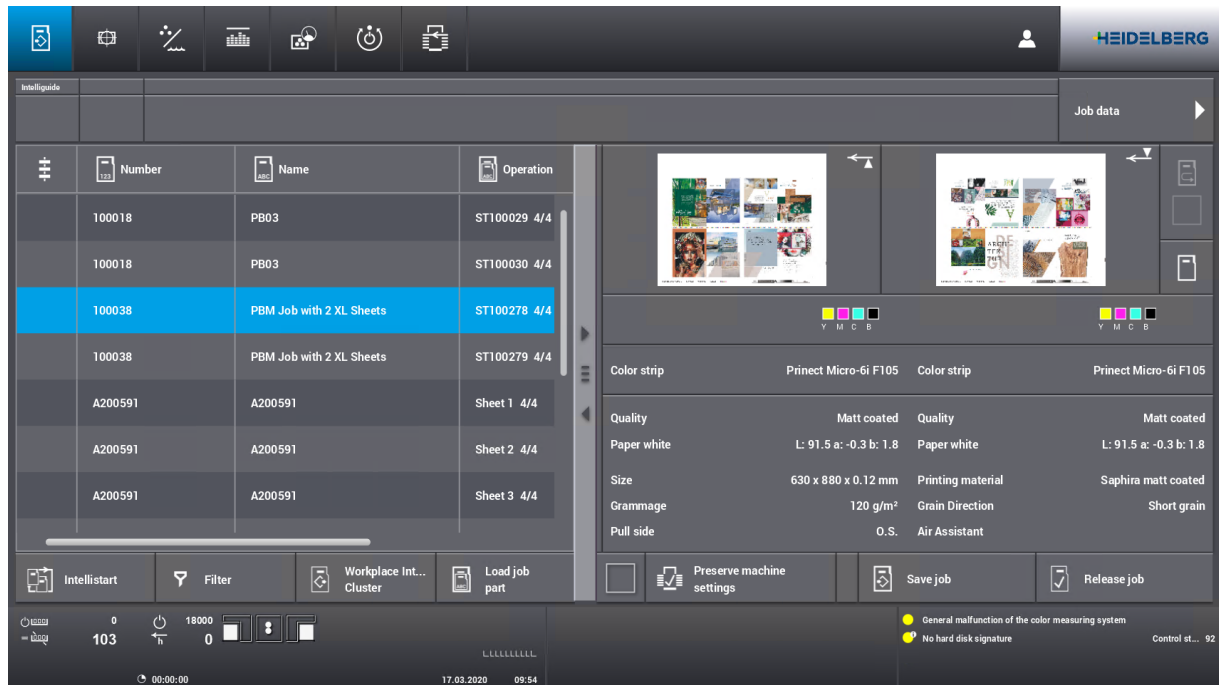
The new PressCenter >=20A has a 24" Multi Touch Screen Panel - this is the preferred user Interface for the Press Operator.

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



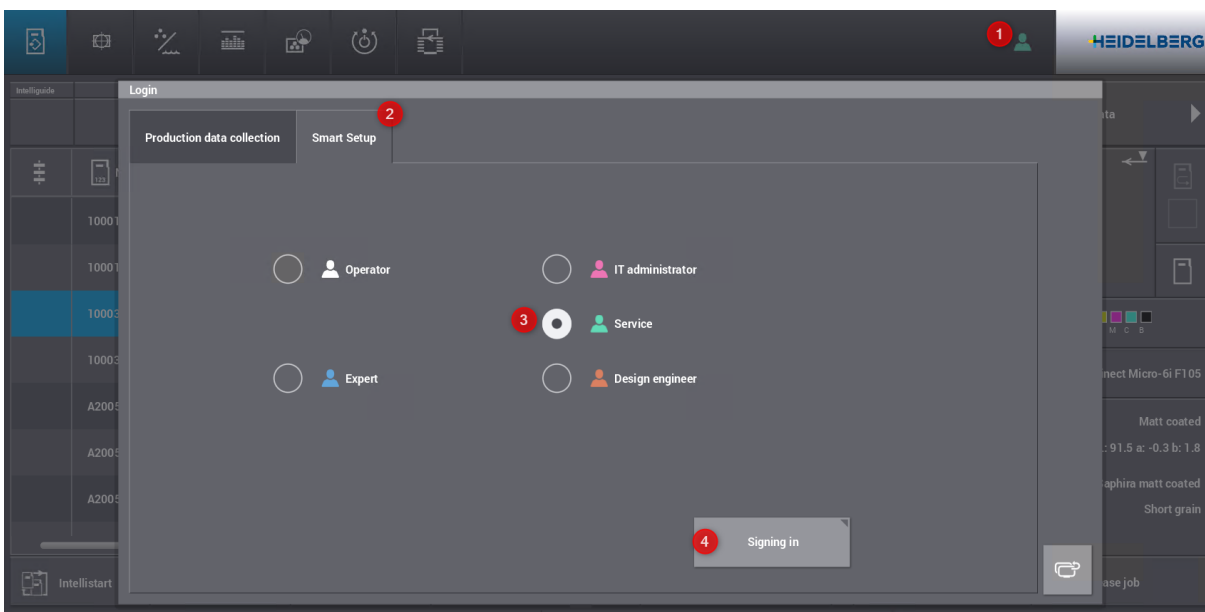
5 PressCenter

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

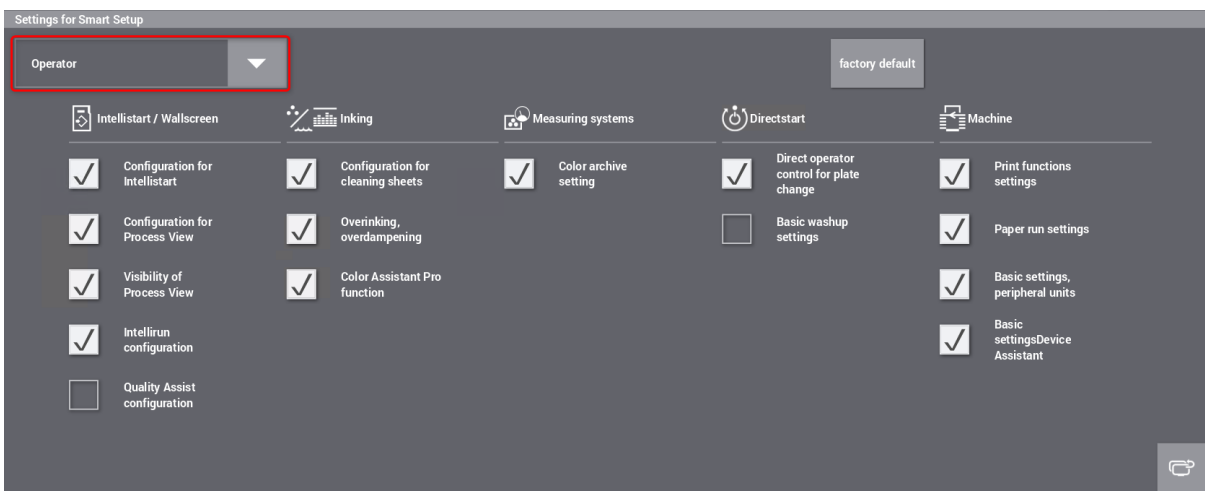
5.1.1 Smart Setup: Log on as Service or as a IT Administrator

We now have new user rights in the PressCenter.



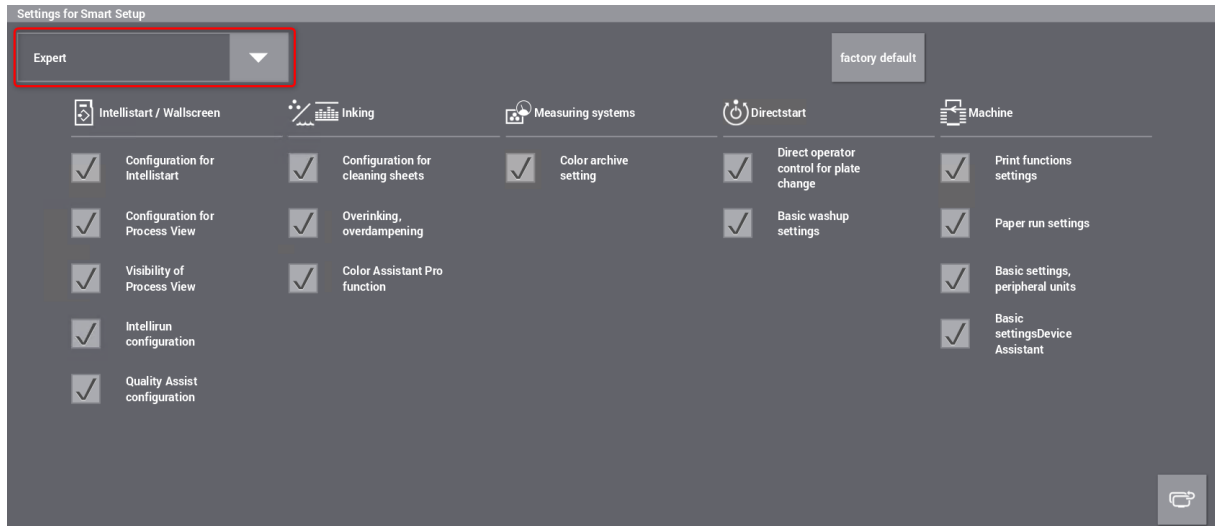
- **Operator** = rights to change basic press settings, **but not network and storage** - no password required.

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



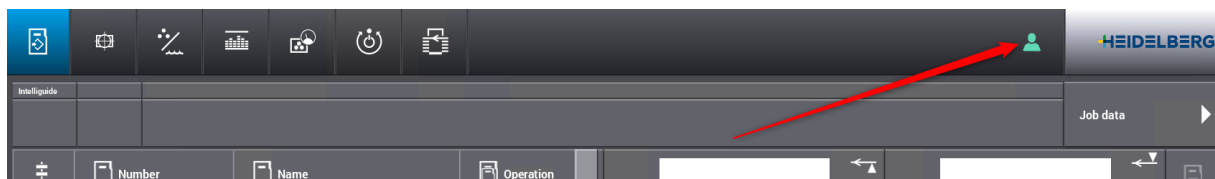
- **Expert** = rights to change basic press settings, **but not network and storage** - PW: 000

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



- **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%2Fuserarea%2Fmain.xhtml%3Fdswid%3D7362&locale=en>
- **Design engineer** = rights to modify everything - needs a special token file on USB stick

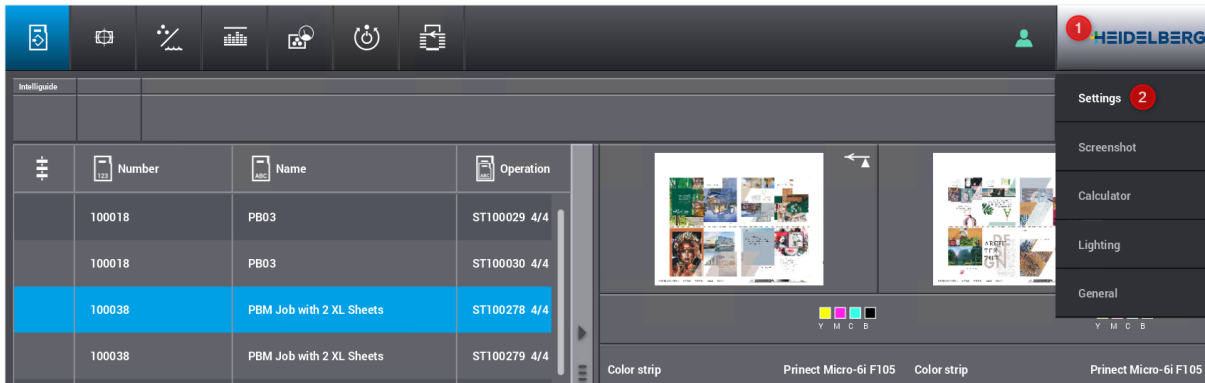
After log in the user icon displays with which user rights we are logged in.



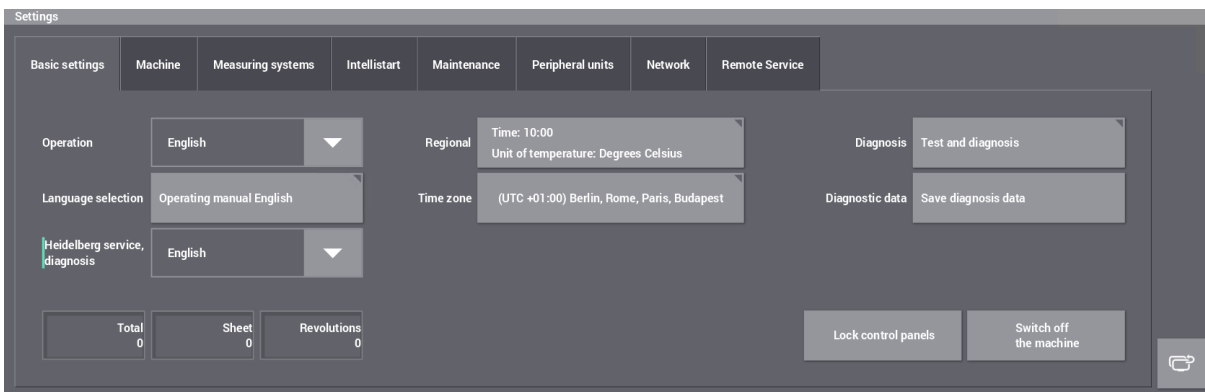
5 PressCenter

5.1.2 Basic Settings: Language, Region, Time Zone

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

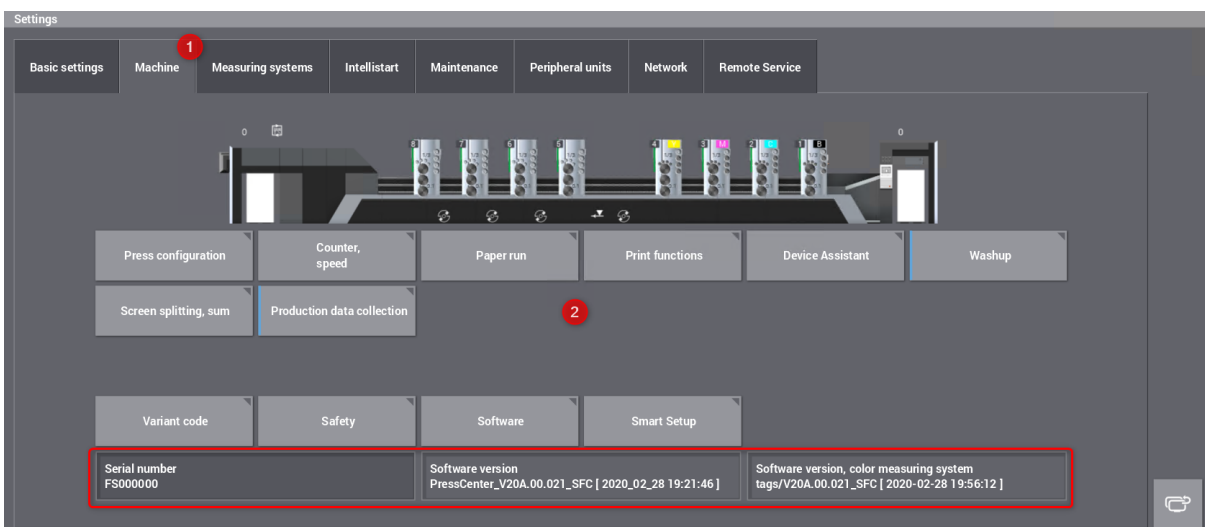


In the first tab we can configure language, regional format, time zone.



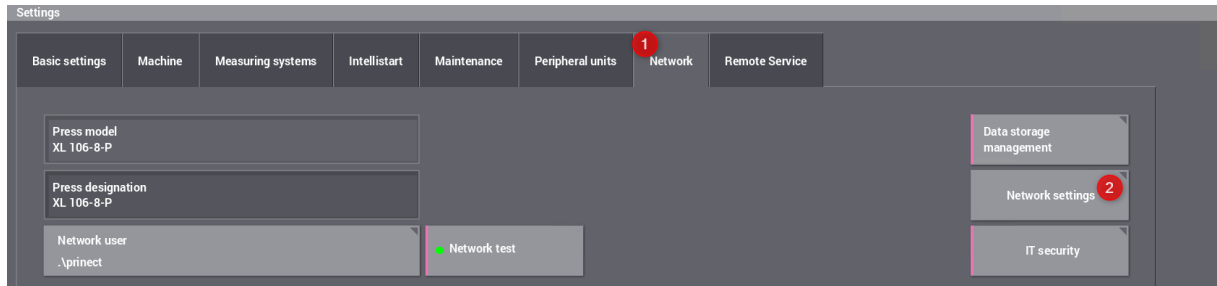
5.1.3 Machine Settings: Serial Number & Software Version

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".



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	HFS070000002114
TCP/IP	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	proxy 8080
HEIRES Tunnelserver	IP-Adresse Tunnelserver	
HEIRES Daten-Server	IP-Adresse Datenserver	
RemoteShutDown	RemoteShutDown	

NTP Server

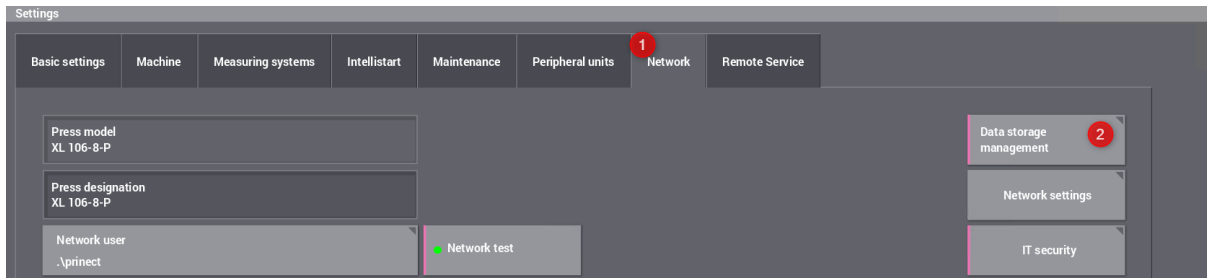
- NTP: The NTP-Server has to be identical to the NTP-Server of the Prinect Server
- NTP: We recommend to use an internal NTP-Server
- NTP: An external NTP-URL (pool.ntp.org) is only working when a DNS Server is configured

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)

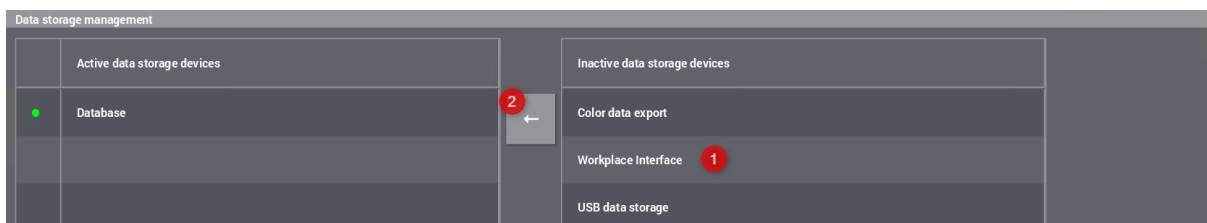
5 PressCenter

Data Storage Management

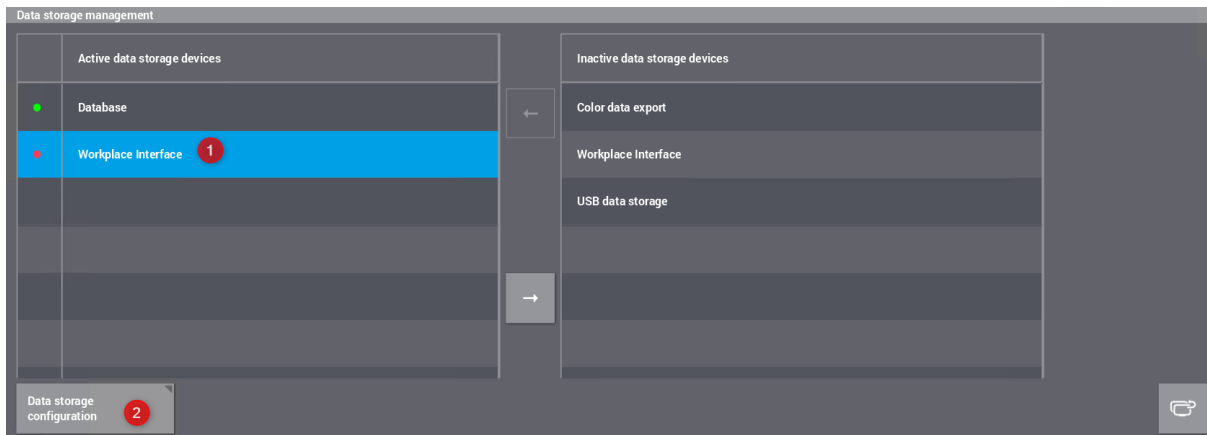


Workplace Interface Connection to load Prinect Jobs

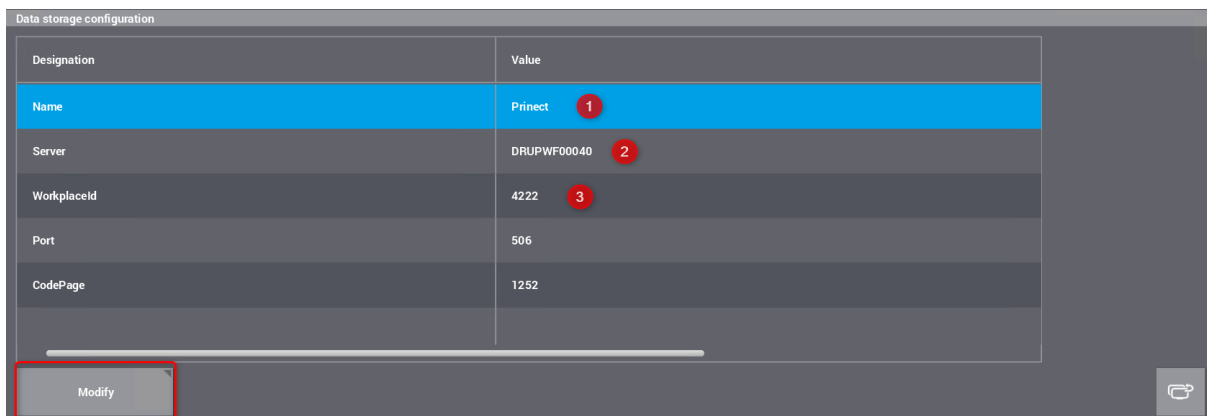
We have to activate a "Workplace Interface" connection...



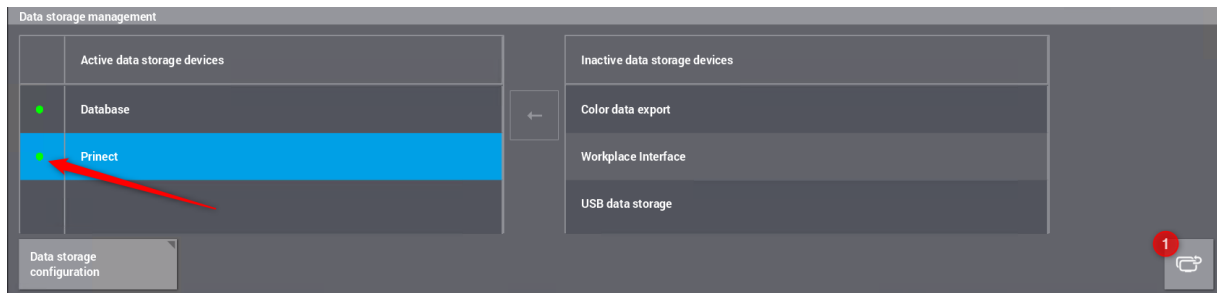
... and to configure to get jobs from Prinect.



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

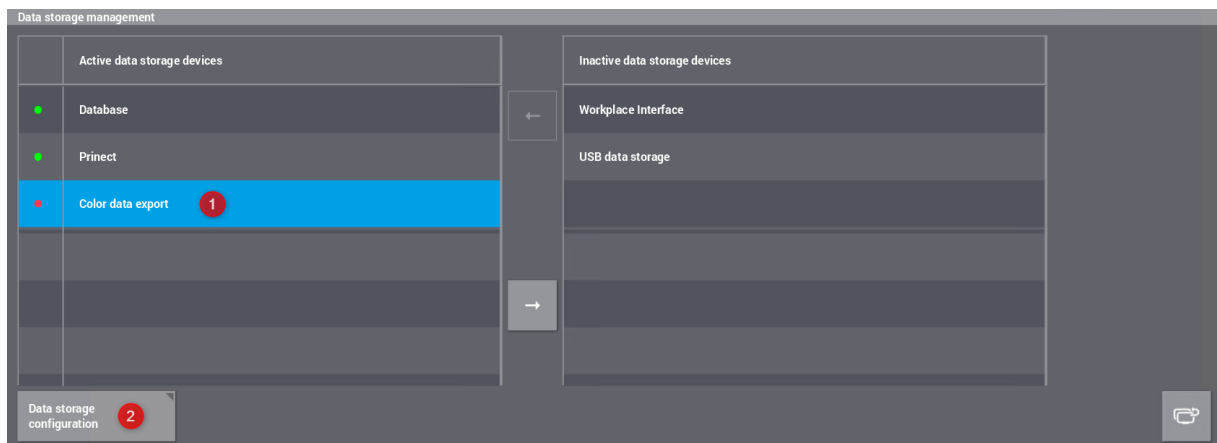


After leaving the configuration the connection should show a "green" icon.

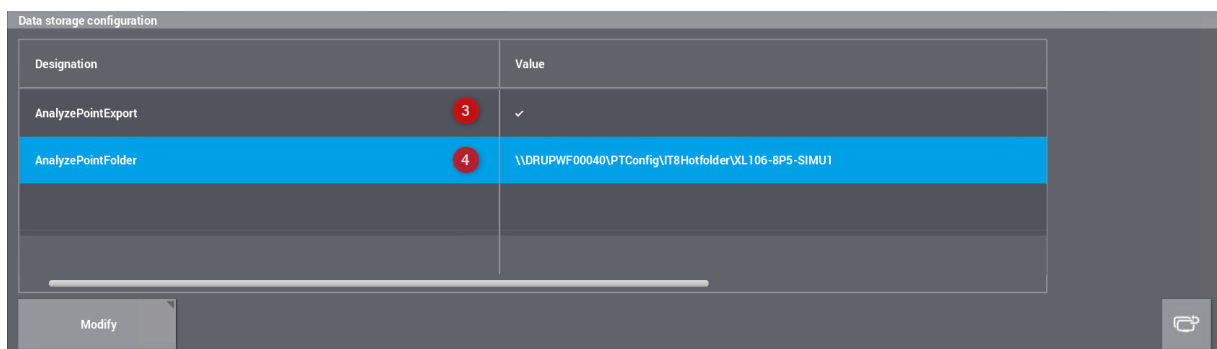


Color Data Export for Quality Report

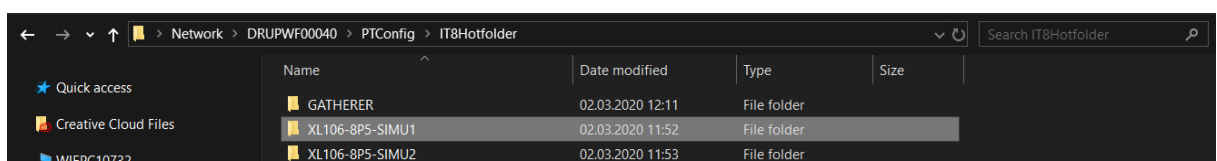
"Inpress Control" or "Axis Control" can write measurement data for Quality Reports in Analyze Point.



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



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



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

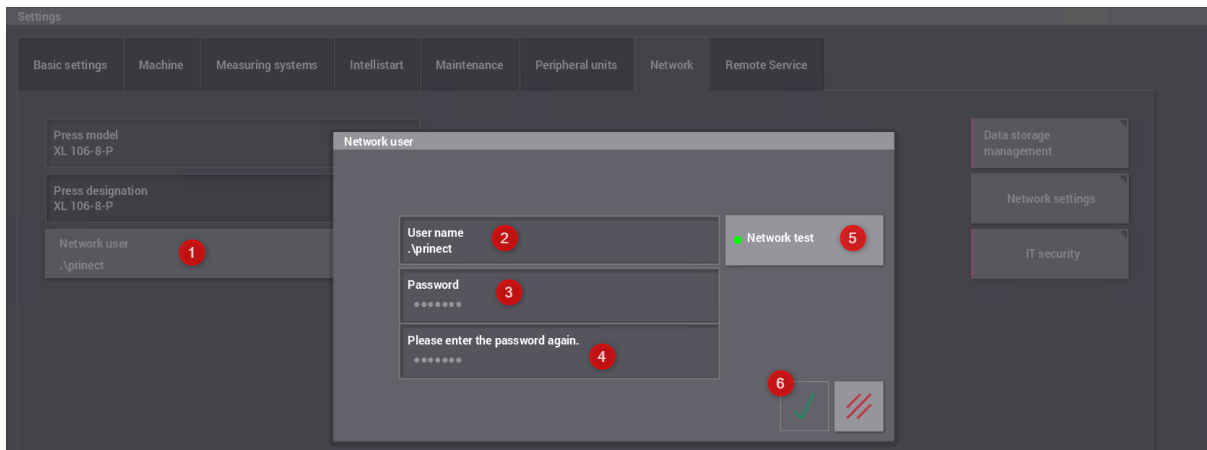
5 PressCenter

Network User for File Access

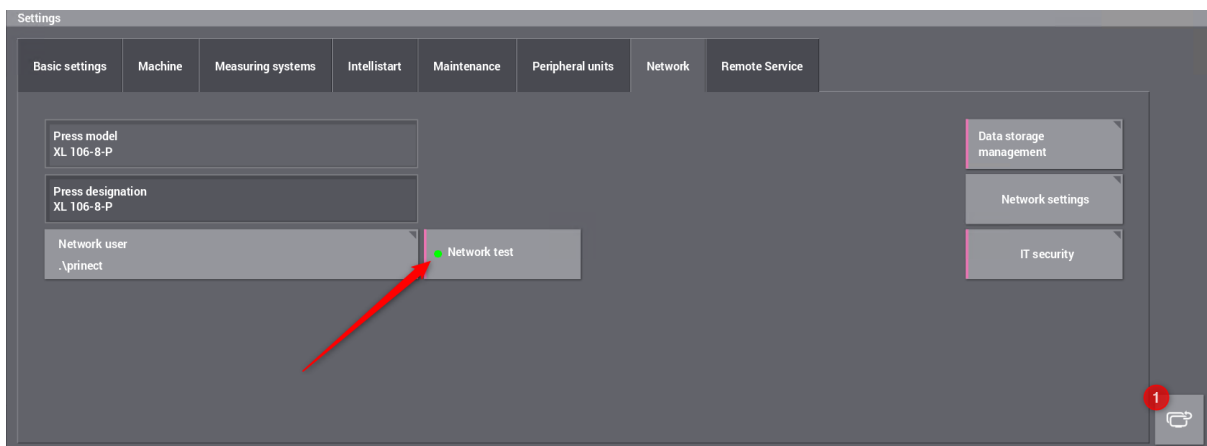
In the Prinect Workflow we need access to folder on the Prinect Server:

- Access to thumbnails
- Access for measurement file export

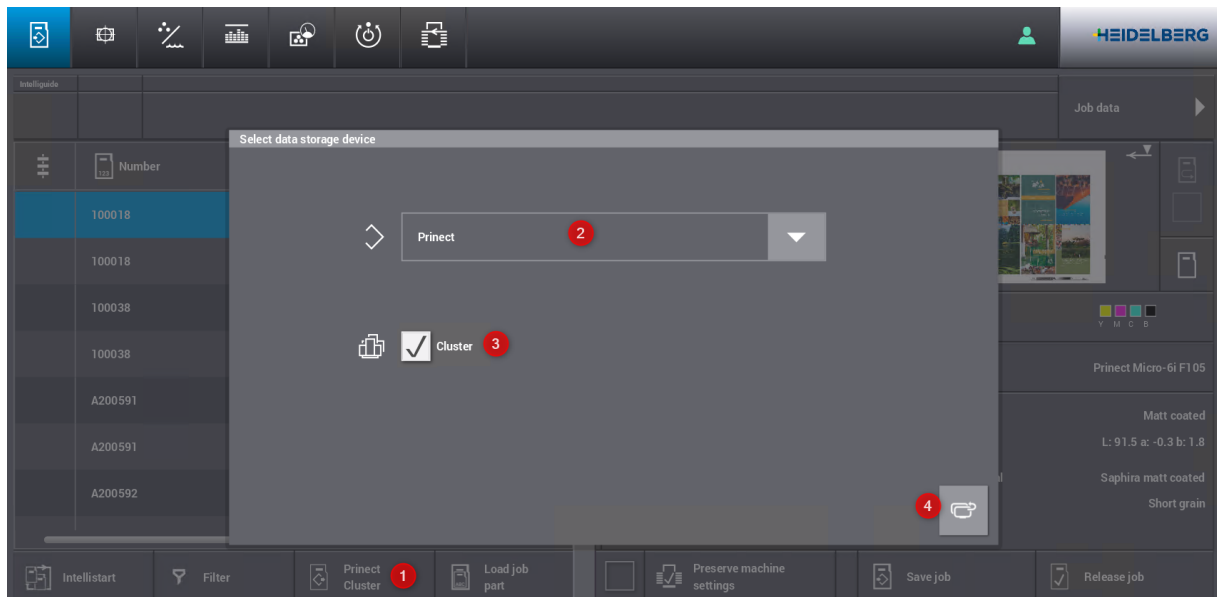
Example: We can define local users (.\\prinect) or domain users (ceu\\prinect) as well.



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

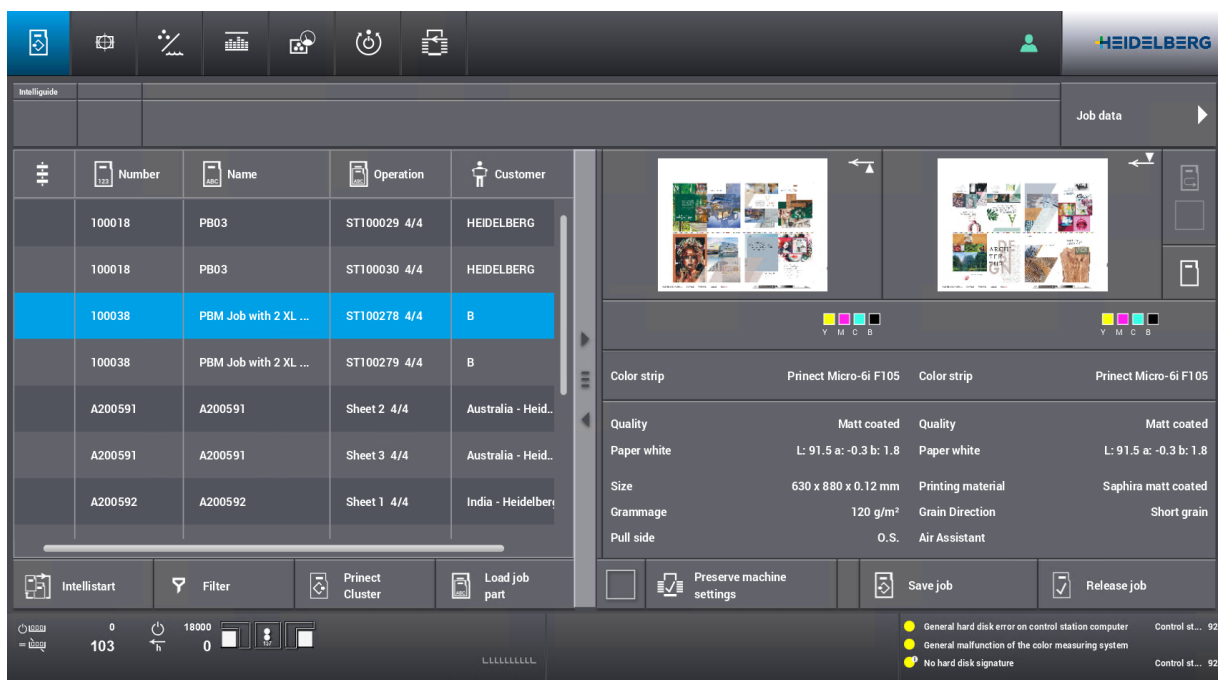


Now we should control the WPI Connection to the Prinect System.



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 be established, we know that the connection is OK.

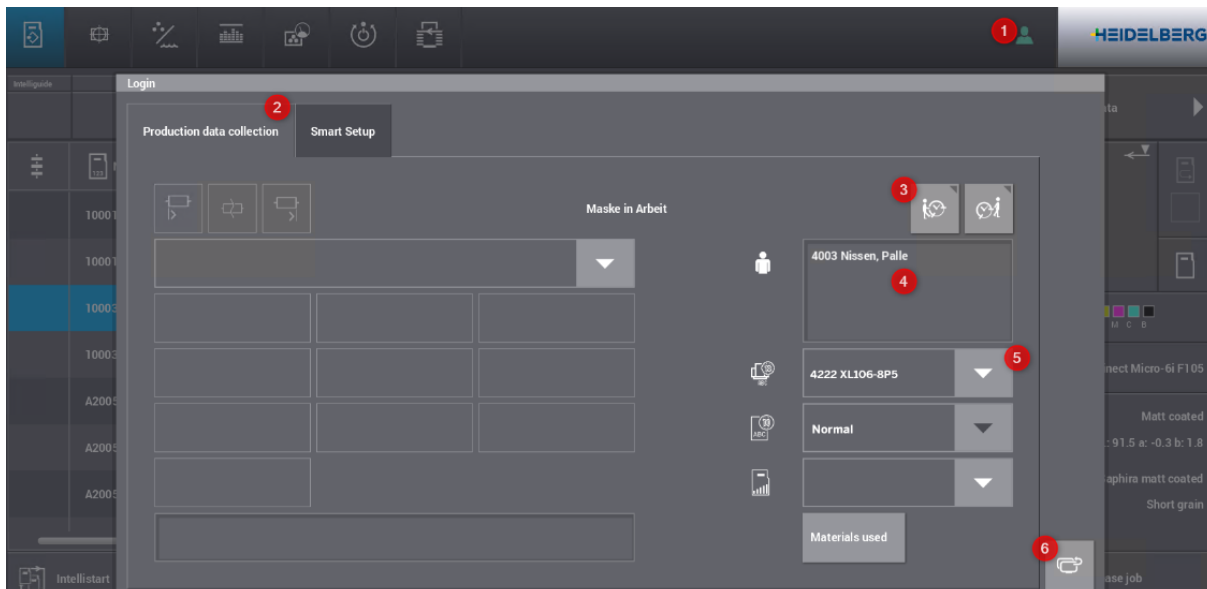


5 PressCenter

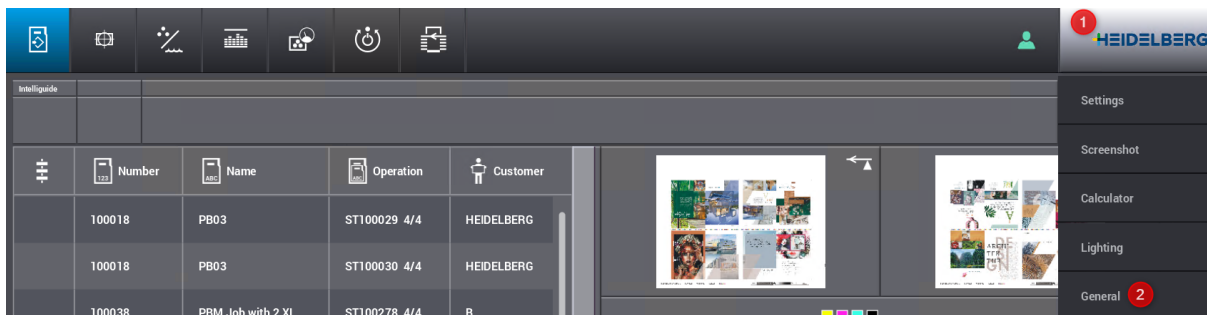
5.1.5 Production Data Collection: Log on as Operator of a Cost Center

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

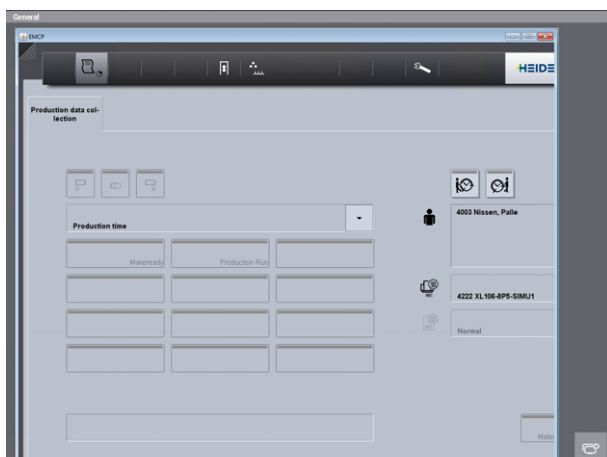
An Operator or an Assistant can log in (1-4), when employees are assigned to this device in Prinect.



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



... 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.

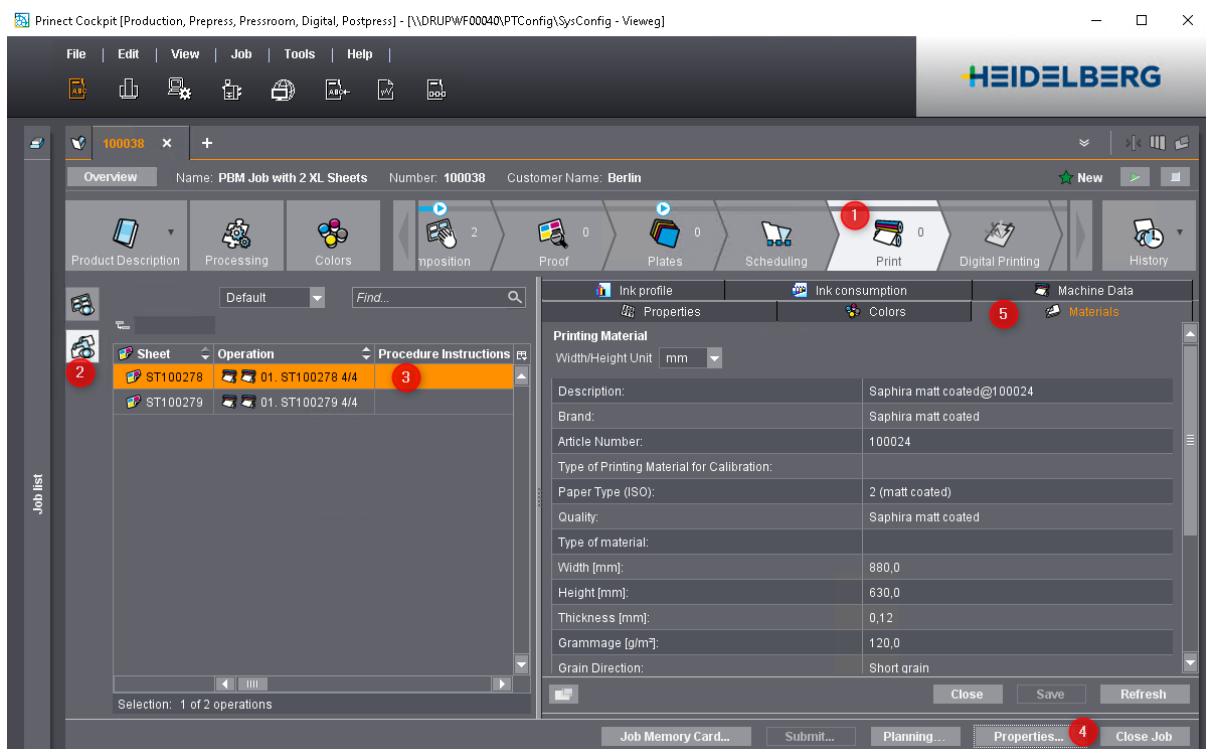
Description

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

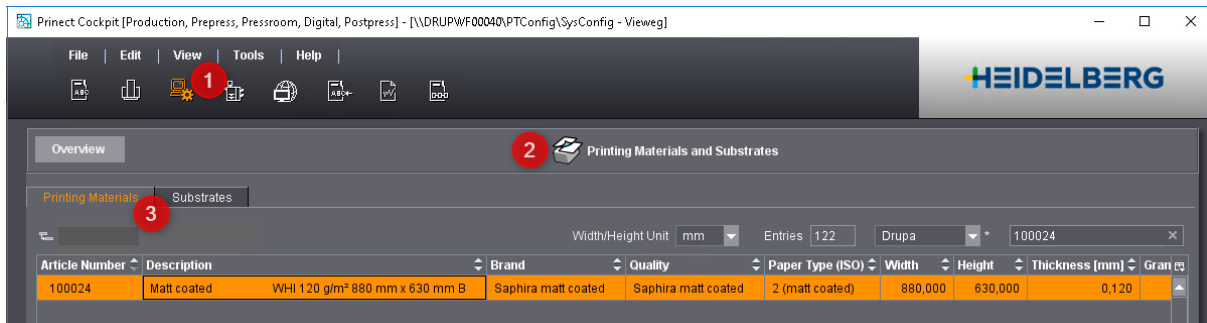
1. Identification of a paper using its "Article Number" and the "Brand"

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

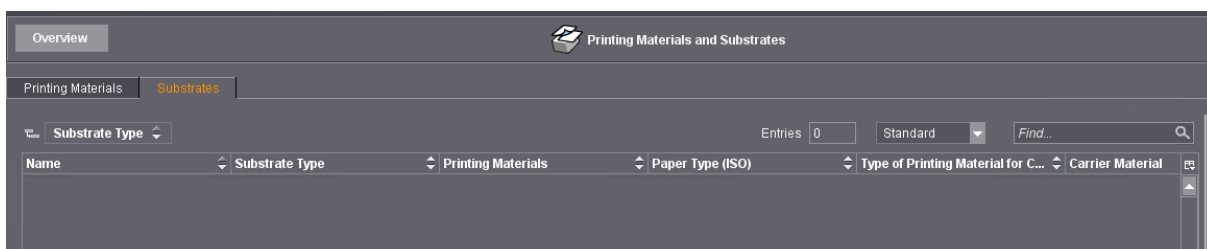


5 PressCenter

This printing material must be defined in the MDS.

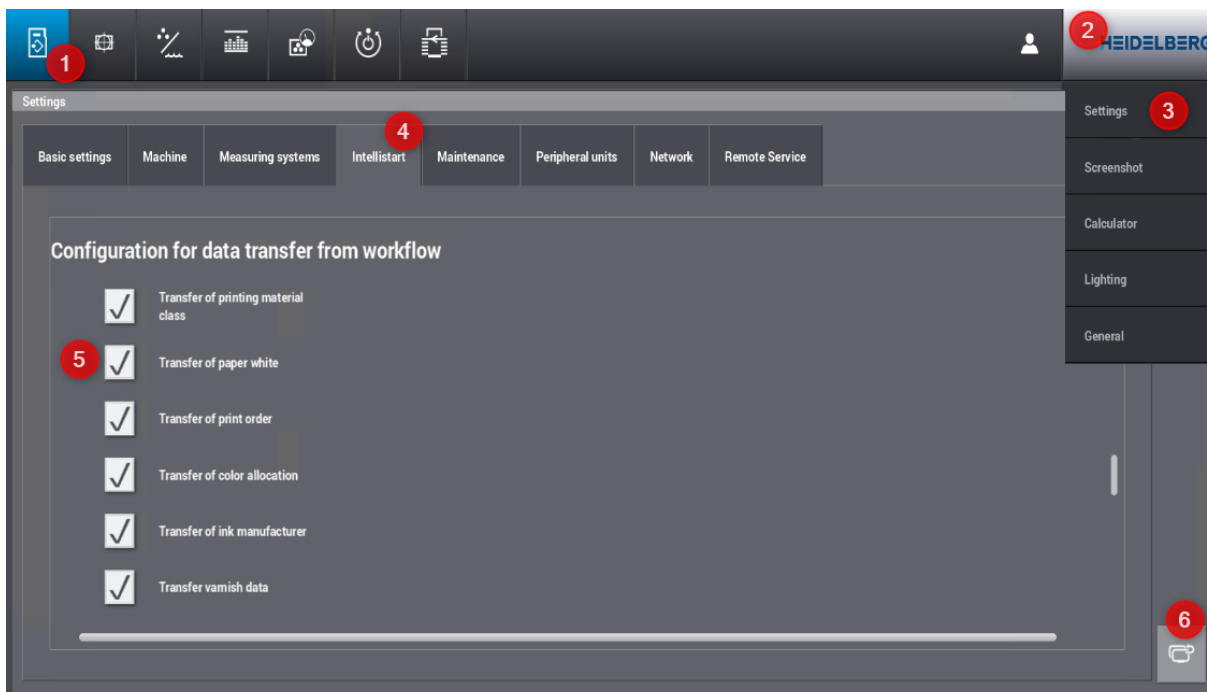


Before we measure the paper white at the PressCenter, we do not have a substrate for this paper!



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

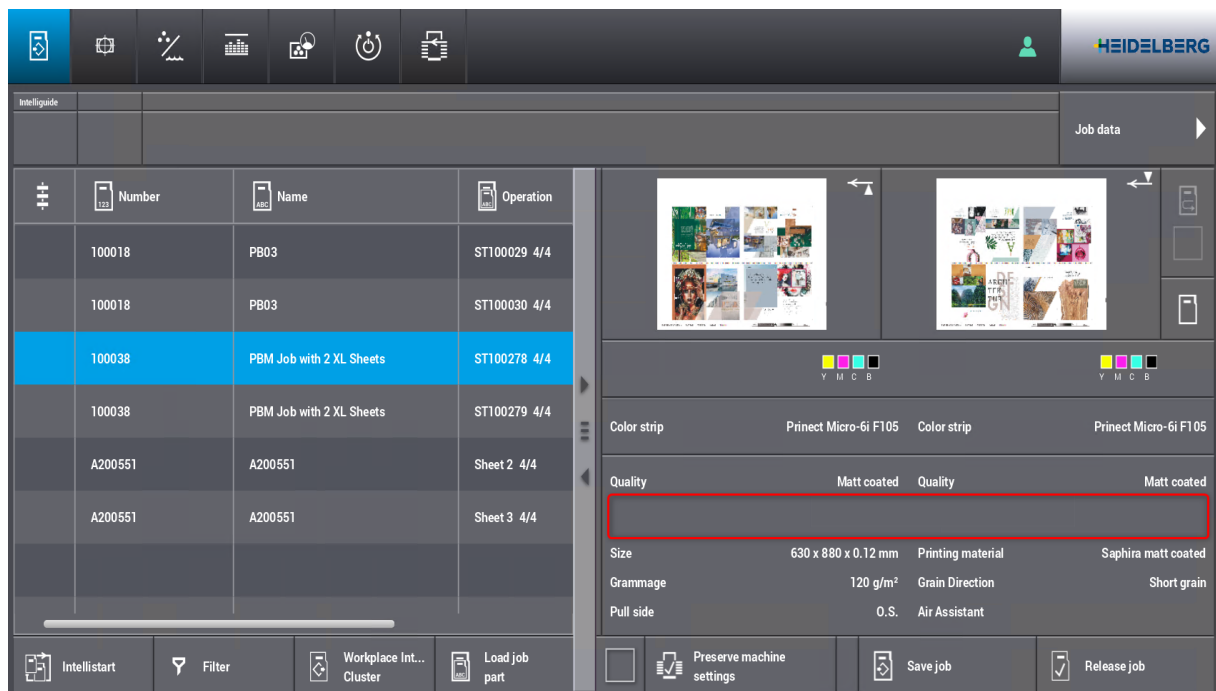
At the PressCenter touch screen panel we have to enable "Transfer of paper white".



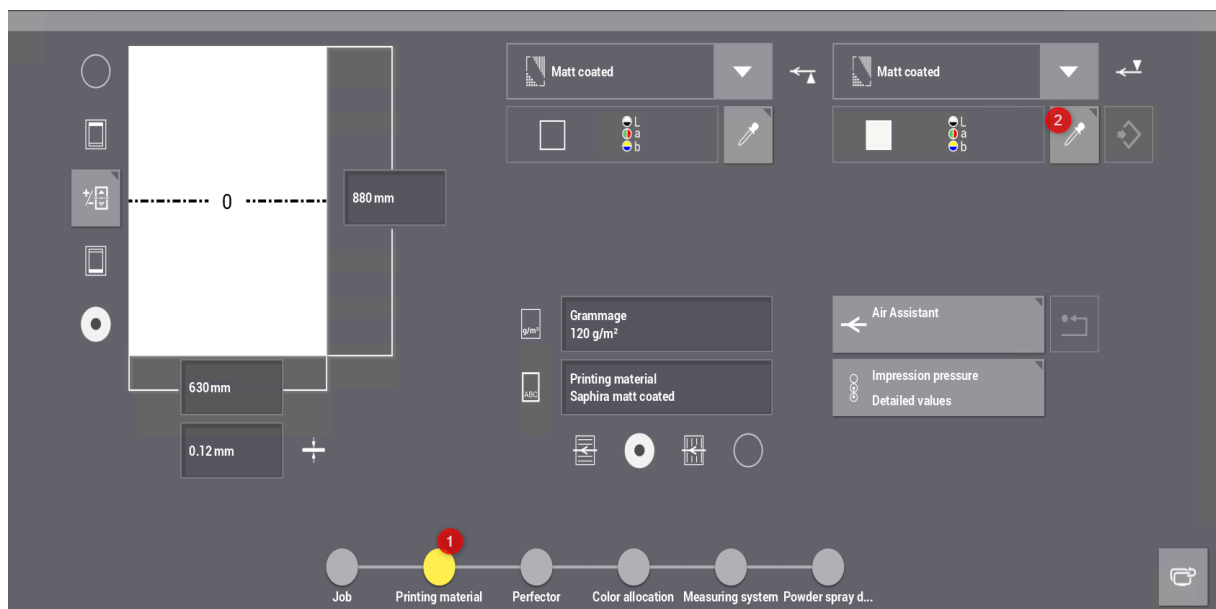
Note: A PressCenter restart is required to enable this setting (PressCenter 20A.00.21)!

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...

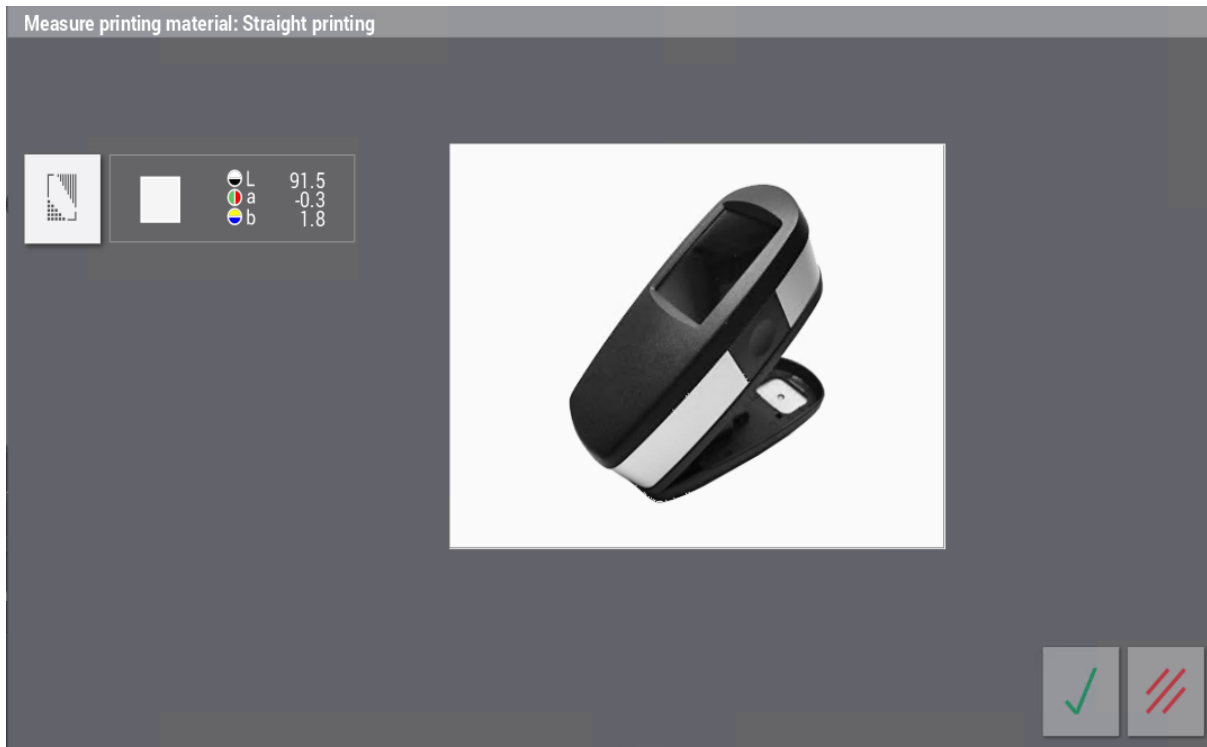


... Job Assistant dialog. Now we have to measure the front and the back side of the printing material.

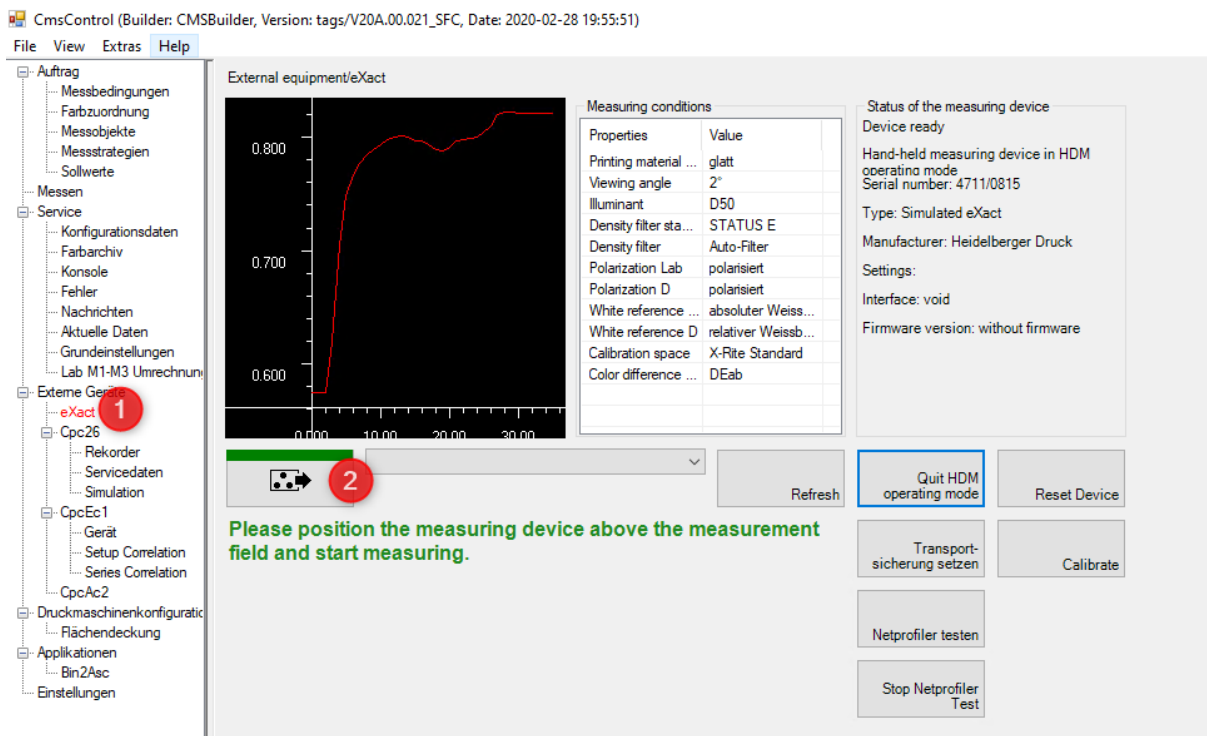


5 PressCenter

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

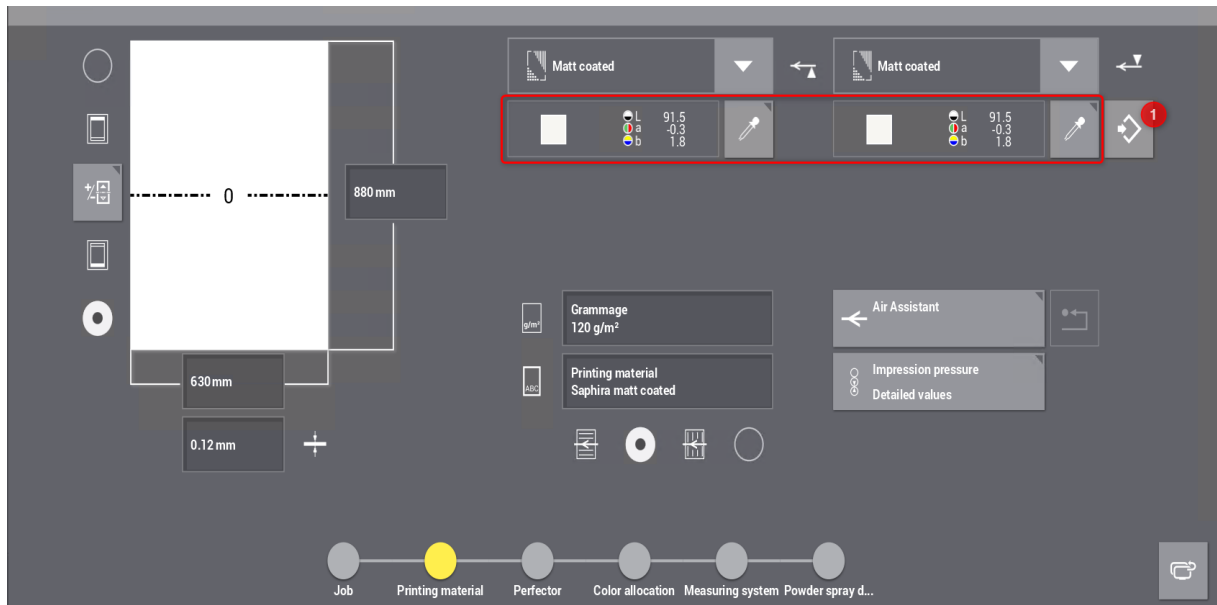


In a simulation you have to use CmsControl to transfer a white-simulation to the PressCenter. This has to be done for the front and the back of the paper.



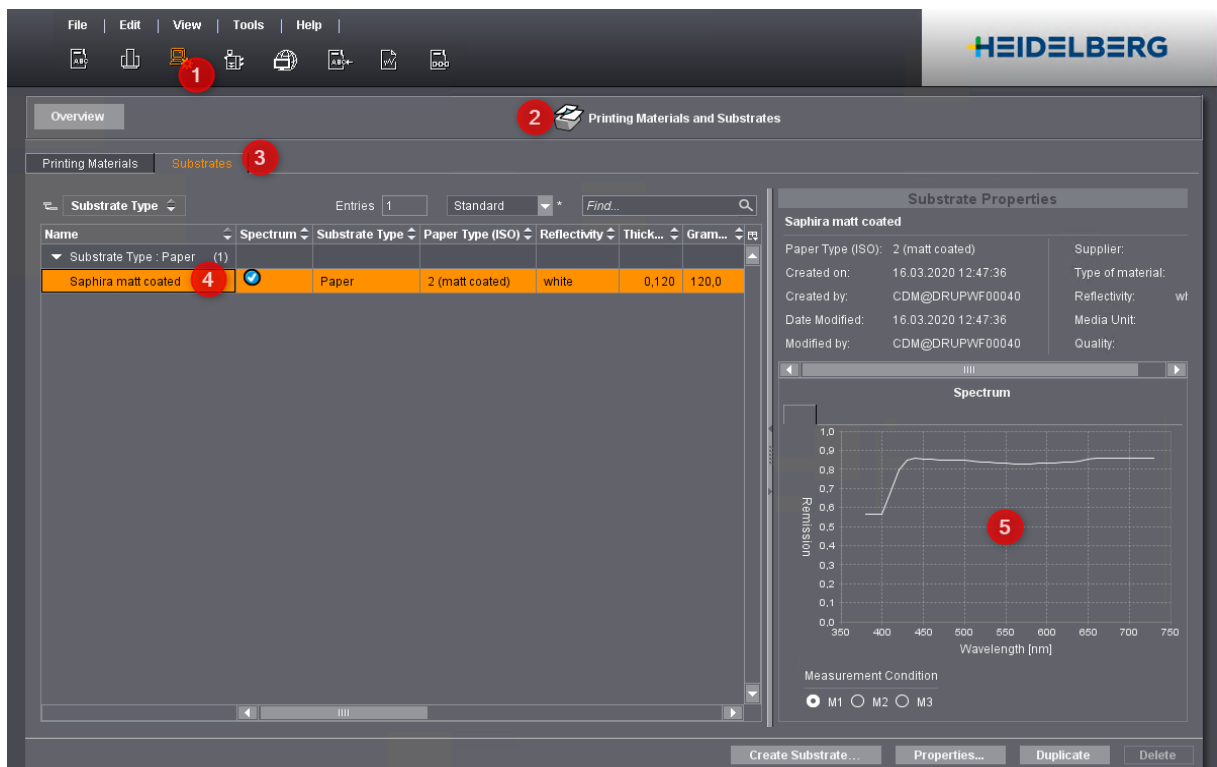
After both measurements are done, the values are displayed in the Job Assistant.

In this condition we can now transfer the values to the MDS (1).



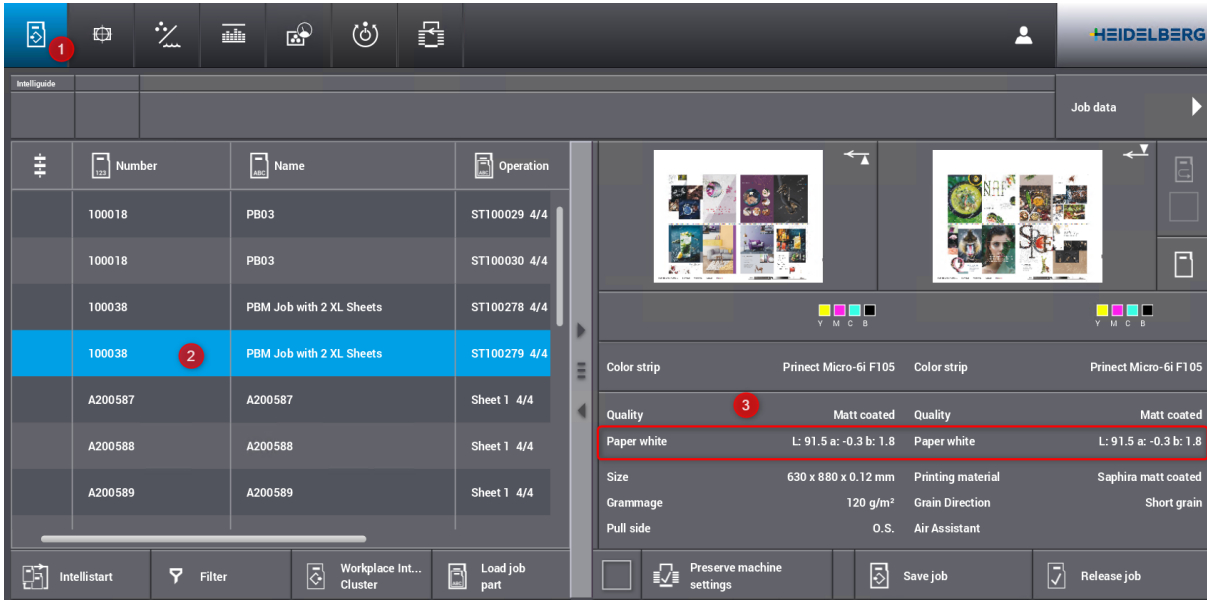
Prinect automatically creates a substrate for this paper!

- 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.



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!



The screenshot displays the Heidelberg PressCenter software interface. The top bar includes a navigation menu with icons (one marked with a red circle '1') and the Heidelberg logo. The main area is divided into a job list on the left and job details on the right.

Job List Table:

#	Number	Name	Operation
	100018	PB03	ST100029 4/4
	100018	PB03	ST100030 4/4
	100038	PBM Job with 2 XL Sheets	ST100278 4/4
	100038	PBM Job with 2 XL Sheets	ST100279 4/4
	A200587	A200587	Sheet 1 4/4
	A200588	A200588	Sheet 1 4/4
	A200589	A200589	Sheet 1 4/4

Job Details Table (for selected job):

Color strip		Color strip	
Prinect Micro-6i F105		Prinect Micro-6i F105	
Quality	Matt coated	Quality	Matt coated
Paper white	L: 91.5 a: -0.3 b: 1.8	Paper white	L: 91.5 a: -0.3 b: 1.8
Size	630 x 880 x 0.12 mm	Printing material	Saphira matt coated
Grammage	120 g/m²	Grain Direction	Short grain
Pull side	O.S.	Air Assistant	

The bottom bar contains buttons for 'Intellistart', 'Filter', 'Workplace Int... Cluster', 'Load job part', 'Preserve machine settings', 'Save job', and 'Release job'.

5.3 Plate Cart ID from Plate Pilot

Motivation

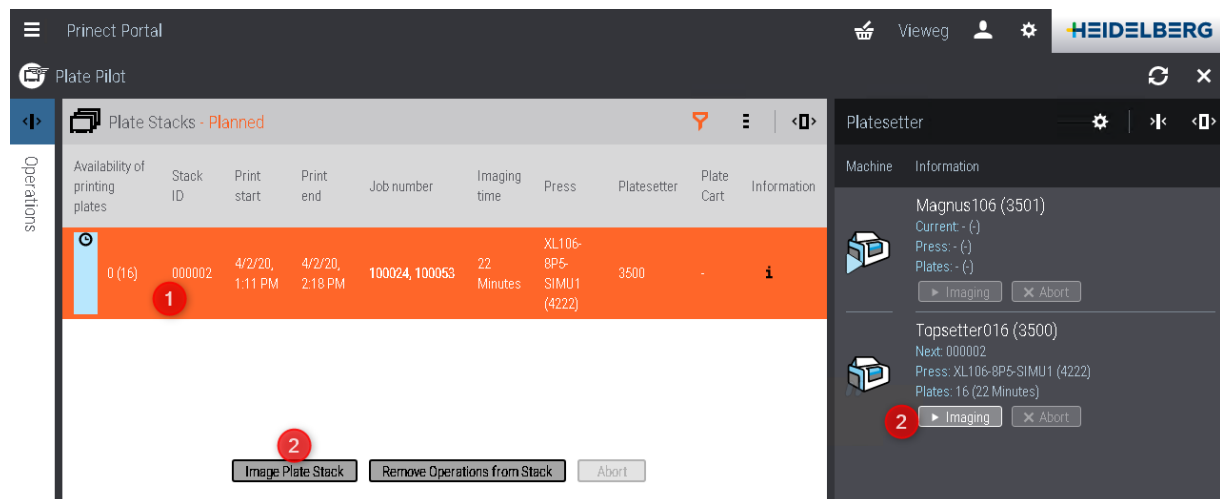
The "Plate Pilot" creates "Plate Stacks" of planned press operations on a "Plate Cart".

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

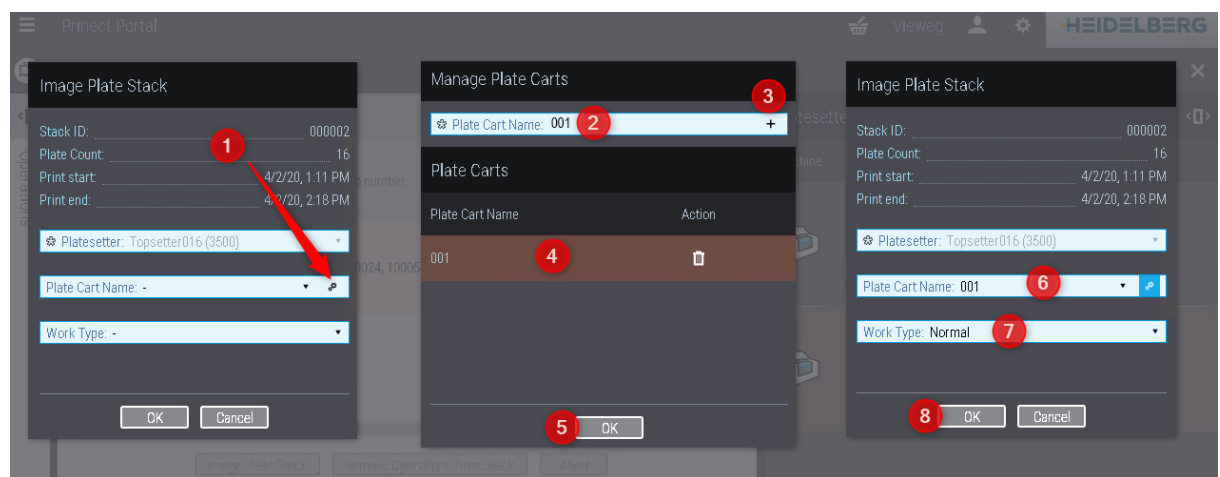
Description

- 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"...



5 PressCenter

... 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".

The screenshot displays the Heidelberg PressCenter S20A interface. At the top, there is a navigation bar with various icons and the 'HEIDELBERG' logo. Below this is a 'Job data' section. The main area features a table with three columns: 'Plate Cart', 'Number', and 'Name'. The 'Plate Cart' column is highlighted with a red box. The table contains several rows of data, including '001', '100053', 'Brochure 20 Pages Cutting Offlin', '001', '100024', 'One Page', '100018', 'PB03', '100018', 'PB03', '100038', 'PBM Job with 2 XL Sheets', '100038', 'PBM Job with 2 XL Sheets', and 'A201303', 'A201303'. To the right of the table, there are two preview windows showing color strips and a 'Color strip' section with 'Prinect Micro-Gi F105' and 'Matt coated' settings. Below the preview windows, there are buttons for 'Intellistart', 'Filter', 'Prinect Cluster', 'Load job part', 'Preserve machine settings', 'Save job', and 'Release job'.

Plate Cart	Number	Name
001	100053	Brochure 20 Pages Cutting Offlin
001	100024	One Page
	100018	PB03
	100018	PB03
	100038	PBM Job with 2 XL Sheets
	100038	PBM Job with 2 XL Sheets
	A201303	A201303

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

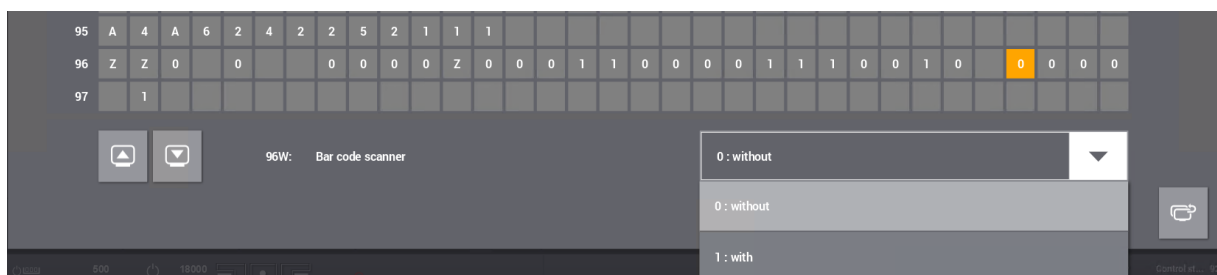
Extended bar code support with variant code settings and license

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

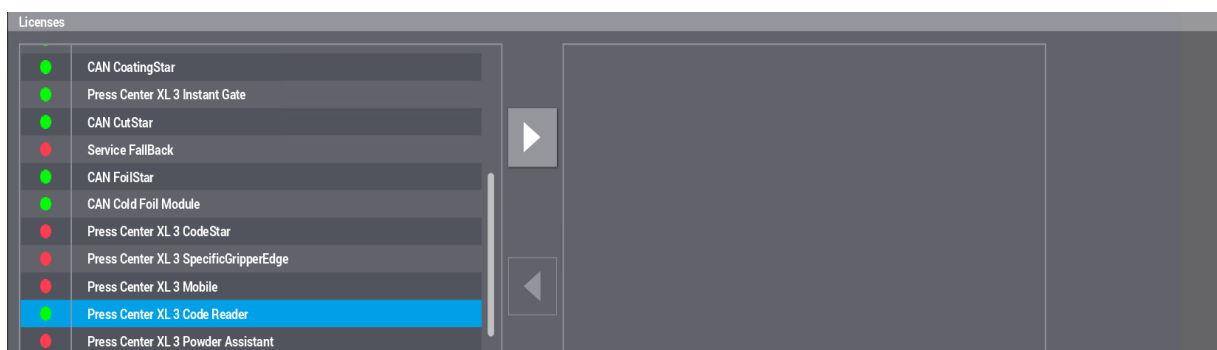
- **Job ID** - Signa Marks Replacer: **J\$\$[jobid]** => all operations with the same Job ID
- **Plate Number** - Signa Marks Replacer: **N\$\$[Plateno]** => only one operation of a job
- **Plate Number for Plate Cart ID** - Signa Marks Replacer: **N\$\$[Plateno]**
=> all operations on the "Plate Cart" 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.

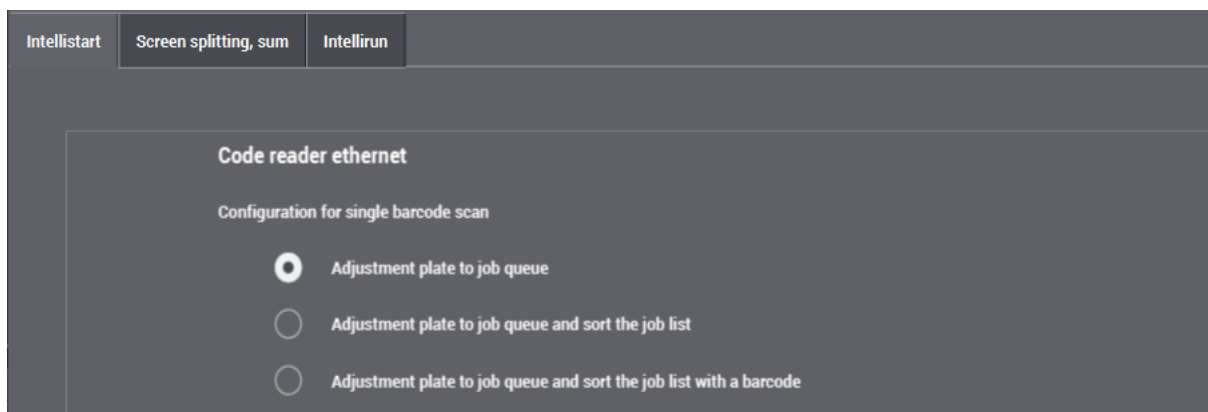


5 PressCenter

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)**

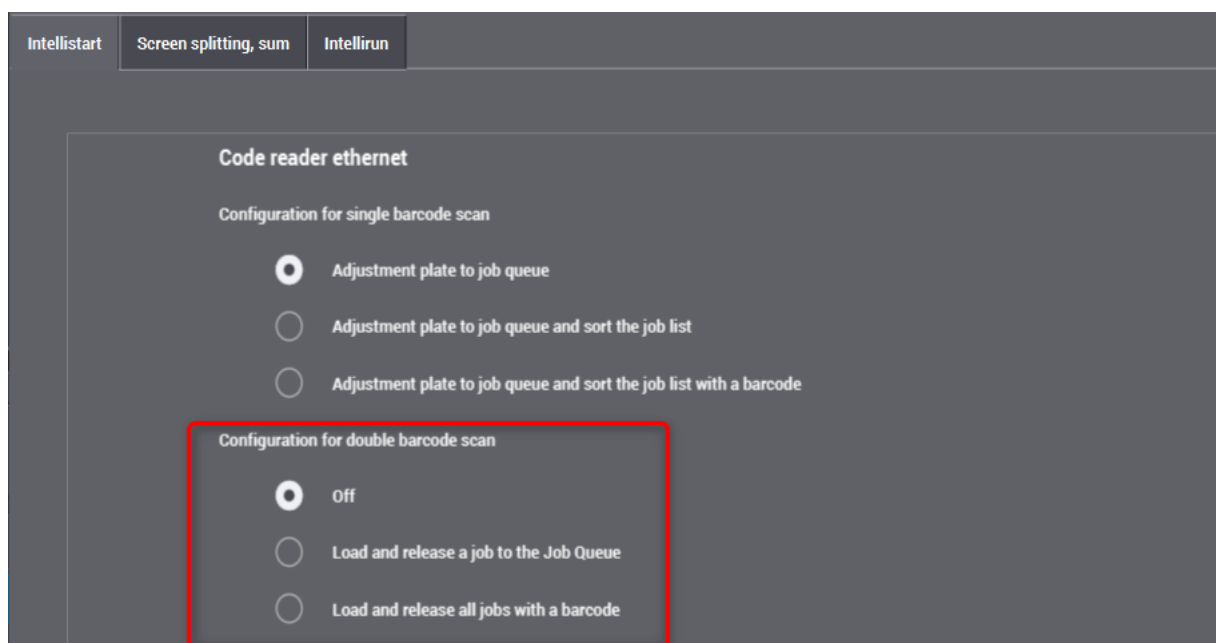
The "Press Operator" or the "Press Assistant" is scanning the plate number

=> 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

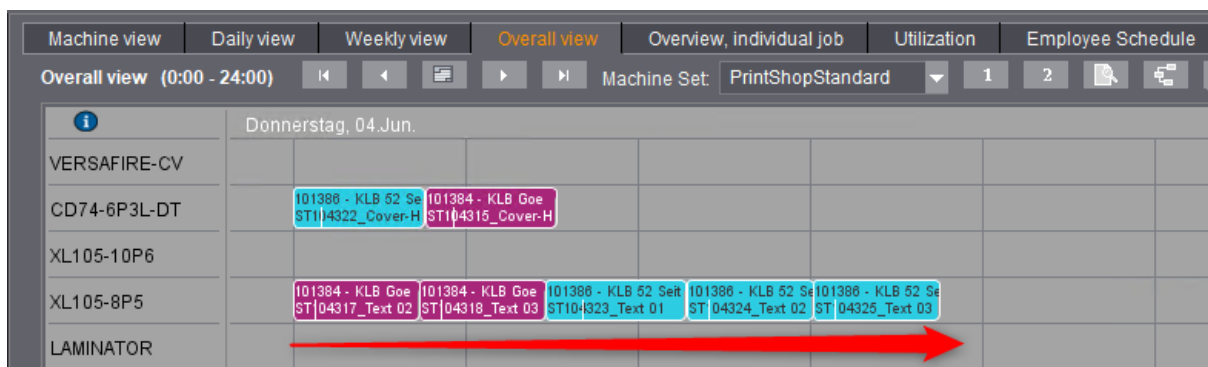
In the Intellistart Job queue we have since version 20A the "Autofill" button. It allows to load scheduled jobs automatically into the queue.

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

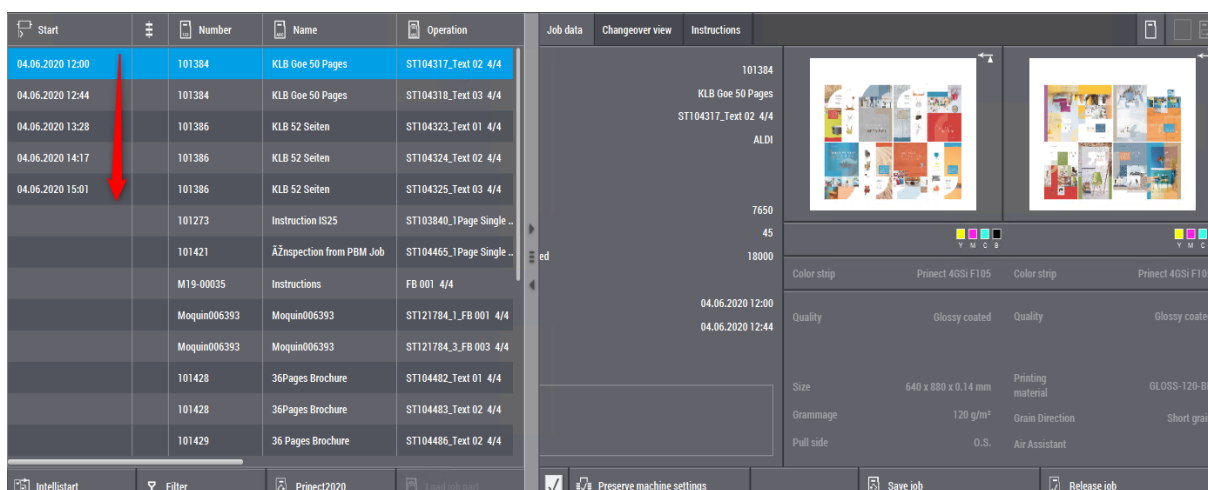
The scheduled jobs should define the same paper, the same inks and the same workstyle to use "Pre-serve machine settings" and to minimize the make ready times!

Example

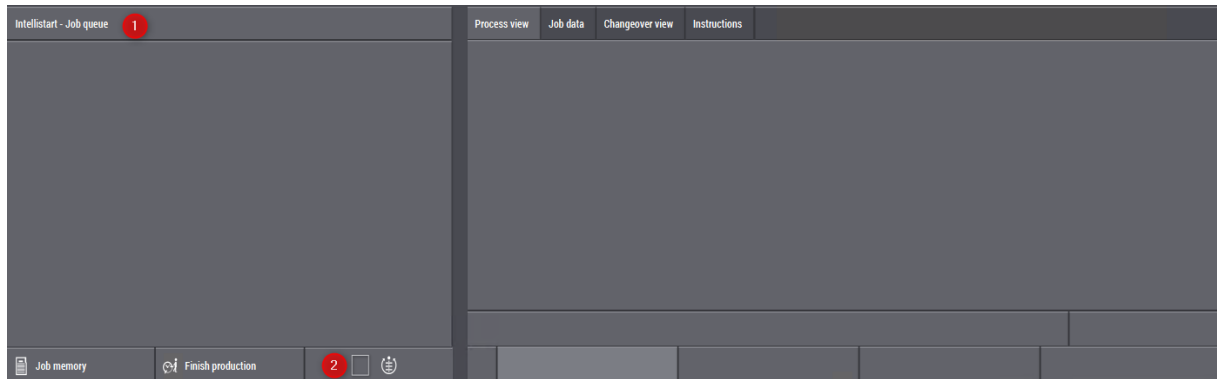
Planned press operations (jobs) in the Scheduler - 5 jobs in a row.



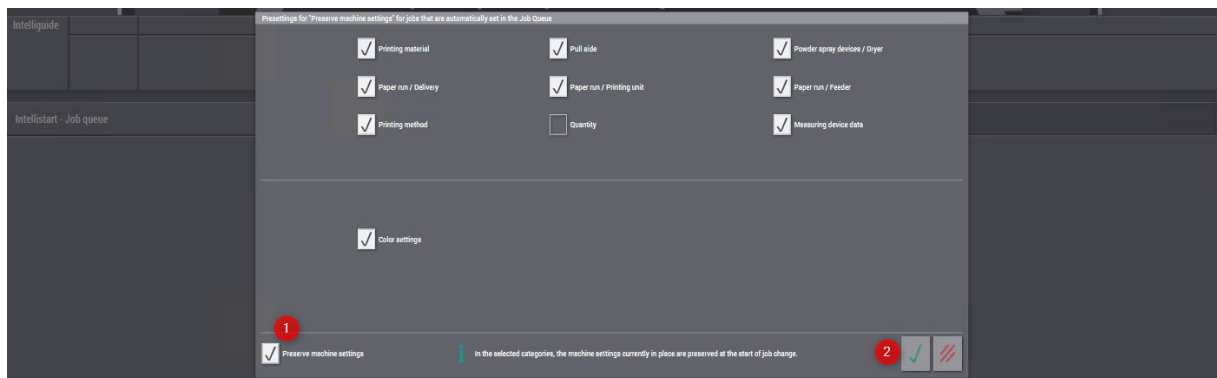
5 planned press operations in the PressCenter.



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



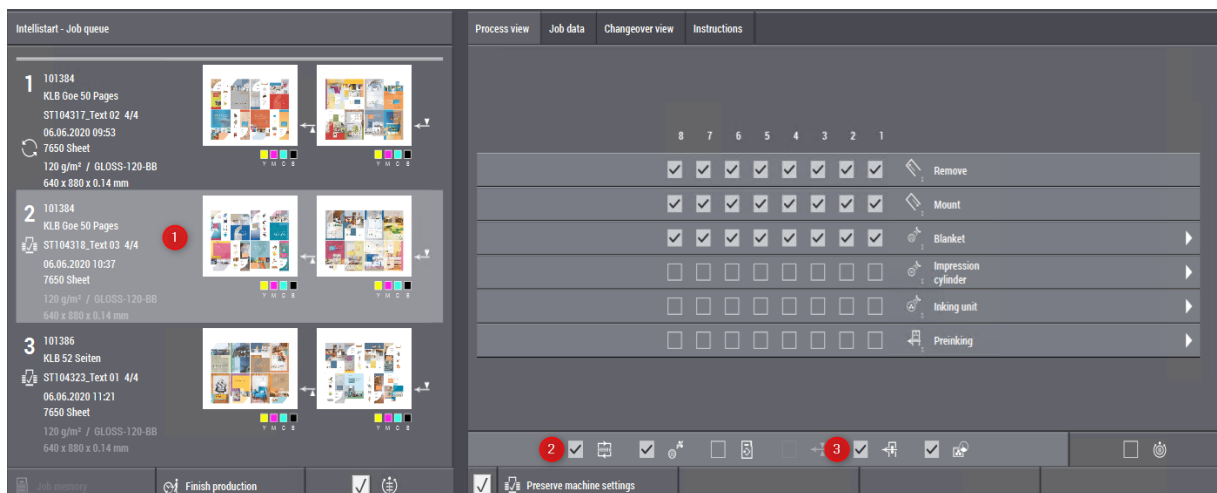
The "Preserve machine settings" dialog is asking which parameters we want to preserve from the last job.



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

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

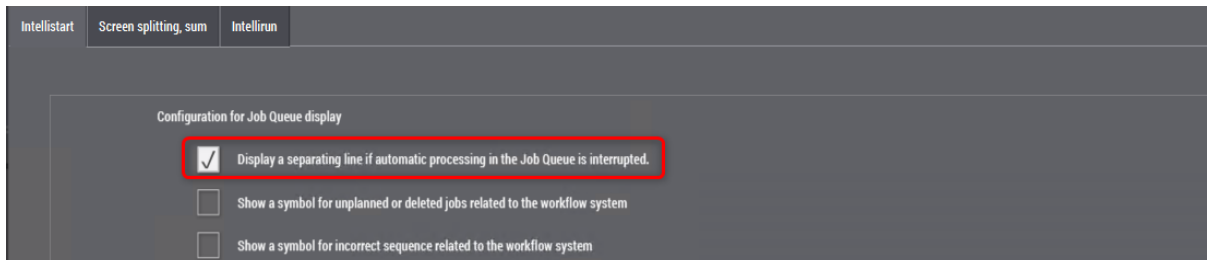
When we select button 2 and 3 for a job we have queued the jobs in Push2Stop mode. No double lines between the jobs means no interruption.



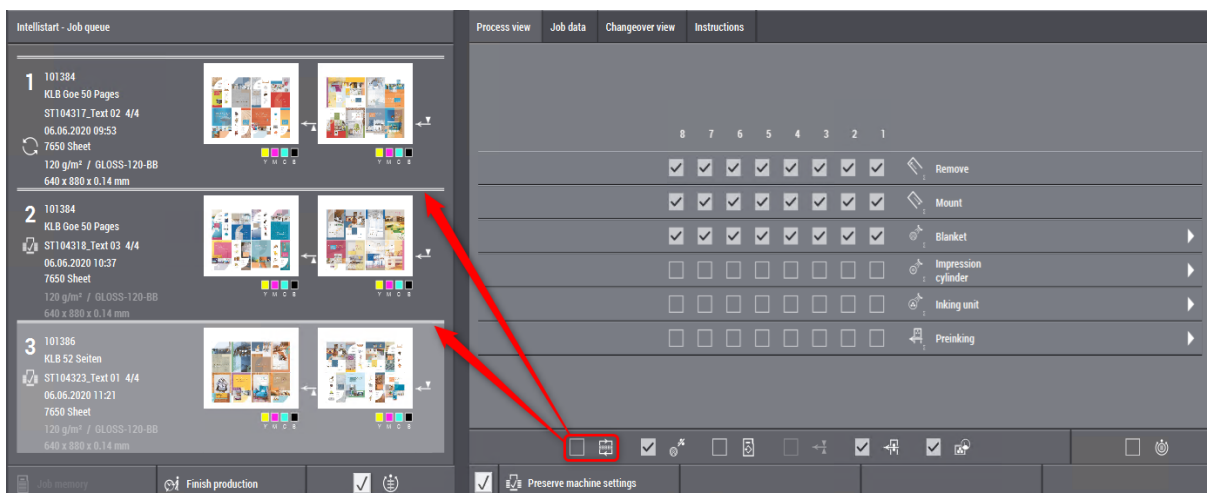
5 PressCenter



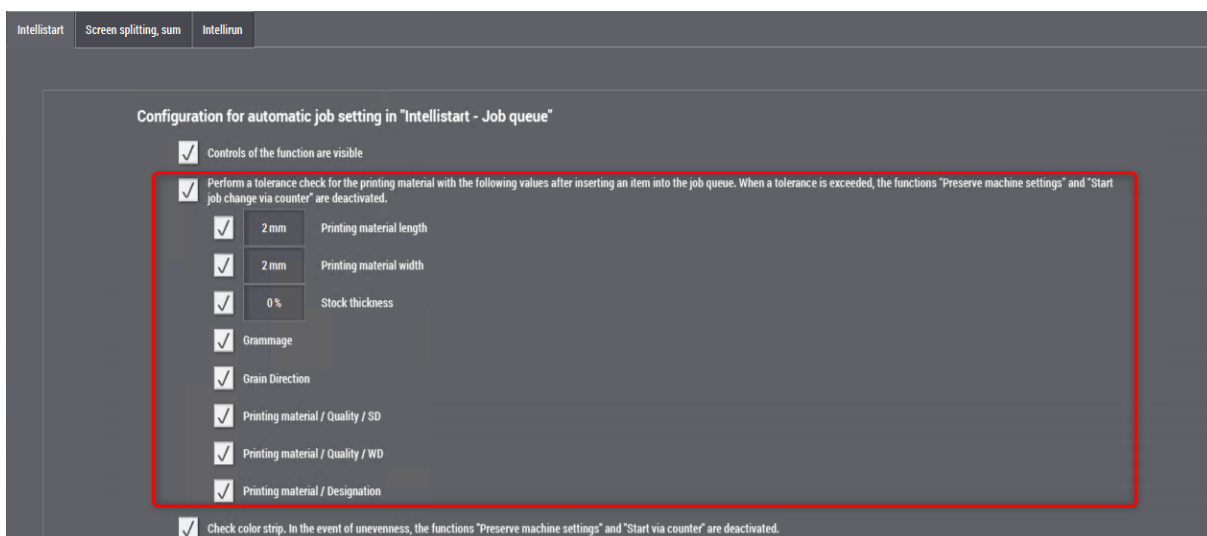
Note: The separating lines are not active at the PressCenter by default!



The separating line displays a machine stop between the jobs.



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



5.6 Prinect Planning Icons in Intellistart Job Queue

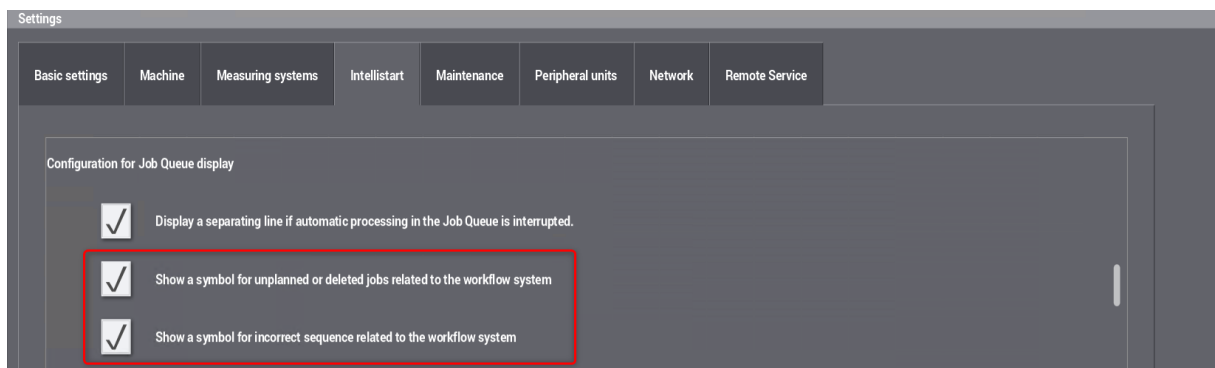
Motivation

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

Description

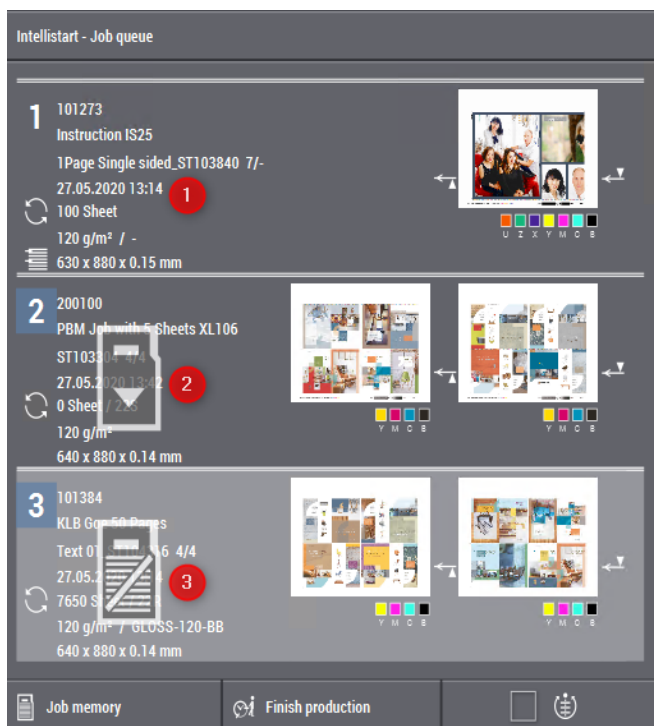
We have implemented in the "IntelliStart Queue" 2 display settings:

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



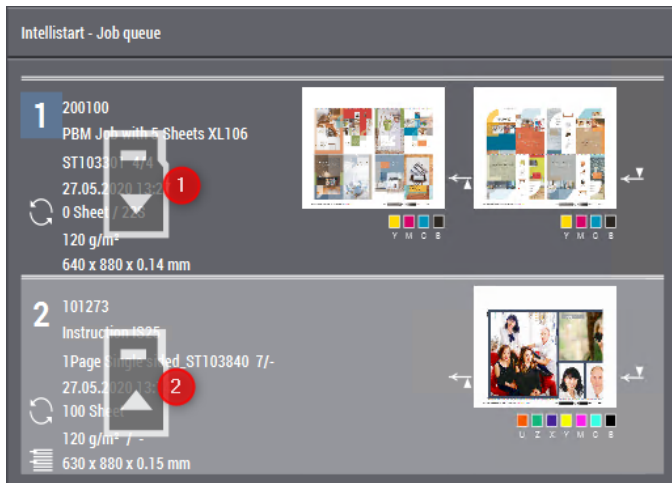
Examples

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

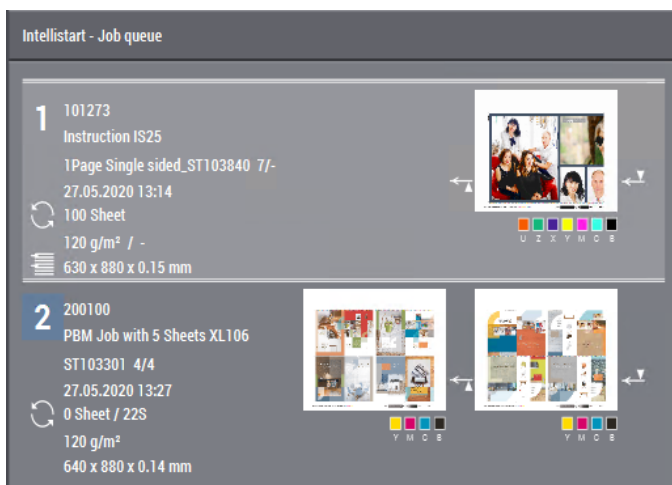


5 PressCenter

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

The screenshot shows the Heidelberg user management interface. The 'Users' tab is selected, and the 'Person' section is visible. The user 'Viewegan' is selected. The 'Employee ID' field is highlighted with a red circle 4. The 'Title' field is set to 'Mr.'. The 'First Name' is 'Andreas' and the 'Family Name' is 'Vieweg'.

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

The screenshot shows the Heidelberg user management interface. The 'Users' tab is selected, and the 'Permissions' section is visible. The user 'Viewegan' is selected. The 'Permissions' table is shown with the following data:

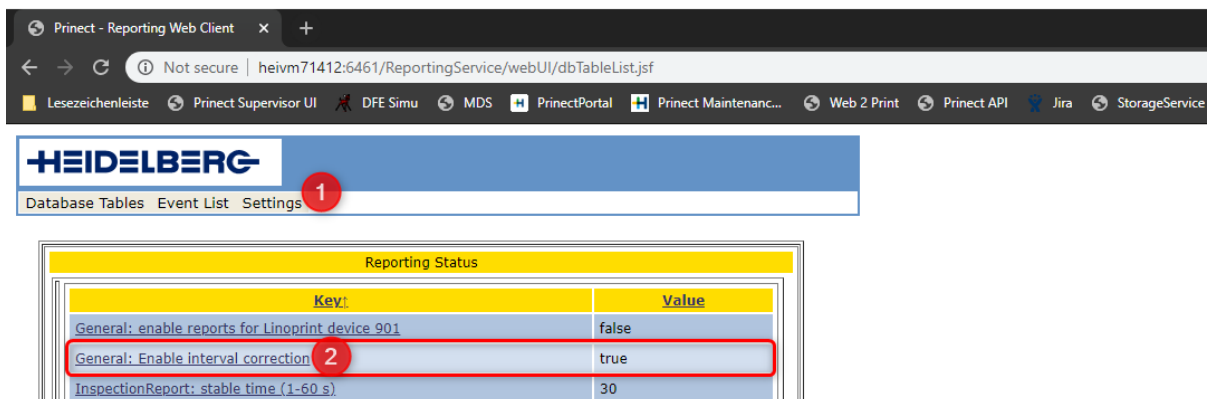
Permission	License	Allow
Analyze Point - Administration		Administrators, PressAdministrators
Analyze Point - Change Job Data		Administrators, PressAdministrators
Analyze Point - Cockpit Base	Analyze Point - Cockpit Base	PressPowerUsers, Administrators, PressAdministrators
Analyze Point - Job	Analyze Point - Cockpit Base	PressPowerUsers, Administrators, PressAdministrators
Analyze Point - Machine Status	Analyze Point - Cockpit Base	PressPowerUsers, Administrators, PressAdministrators
Analyze Point - Performance	Analyze Point - Cockpit Base	PressPowerUsers, PostPressPowerUsers, PostPressAdministrators, Administrators, PressAdministrators

6 Analyze Point

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



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



Note: No restart of services required, a Cockpit restart for the user is necessary.

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

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

The screenshot shows the Heidelberg Princt Production Manager 2021 interface. The 'Mengenänderung (24h)' dialog box is open, displaying a table with job details. The 'Good' column is highlighted, and the value '520' is entered. The 'Waste Amount' is 116. The 'Total Amount' is 616. The 'Last Modified' column is empty. The 'reset' button is visible. The background shows a list of machines and a table of job data.

Job number	Operation designation	Start	End	Waste Amount	Good production	Total Amount
84667-210311	FB 001 4/4	30.03.2020 09:30	30.03.2020 09:45	116 0 h 11 min	500 0 h 03 min	616 0 h 15 min

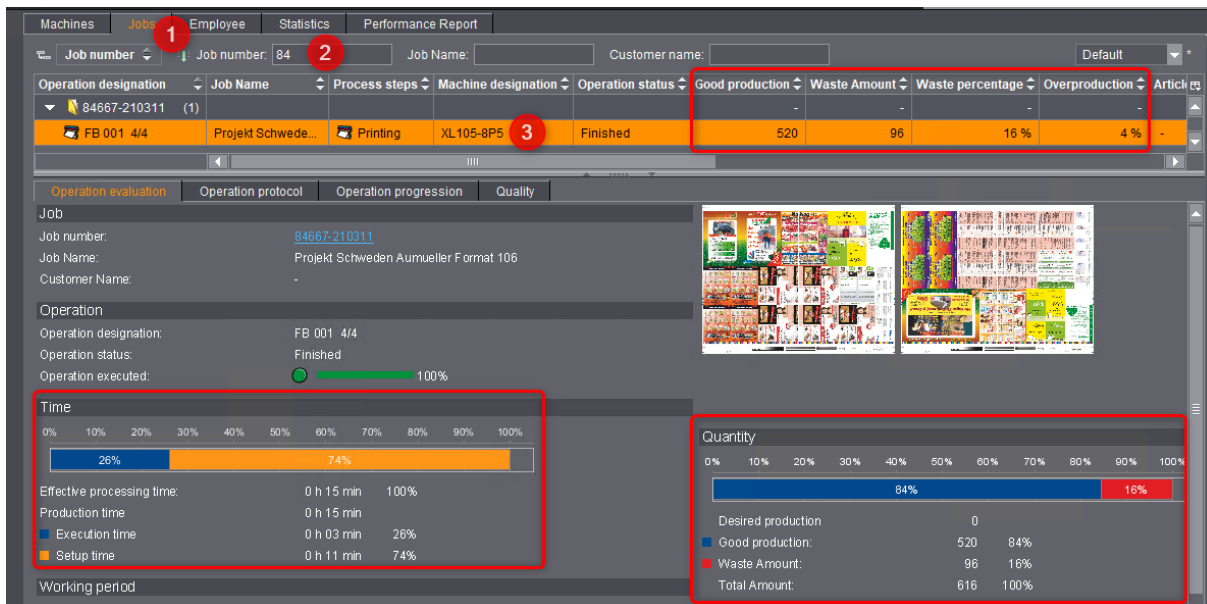
... 20 sheets are removed from the waste production. The Cockpit user who has modified the values is displayed in the last column.

The screenshot shows the Heidelberg Princt Production Manager 2021 interface. The 'Mengenänderung (24h)' dialog box is open, displaying a table with job details. The 'Good' column is highlighted, and the value '520' is entered. The 'Waste Amount' is 96. The 'Total Amount' is 616. The 'Last Modified' column shows the date and time '30.03.20 13:46' and the user 'Vieweg, Andreas'. The 'reset' button is visible. The background shows a list of machines and a table of job data.

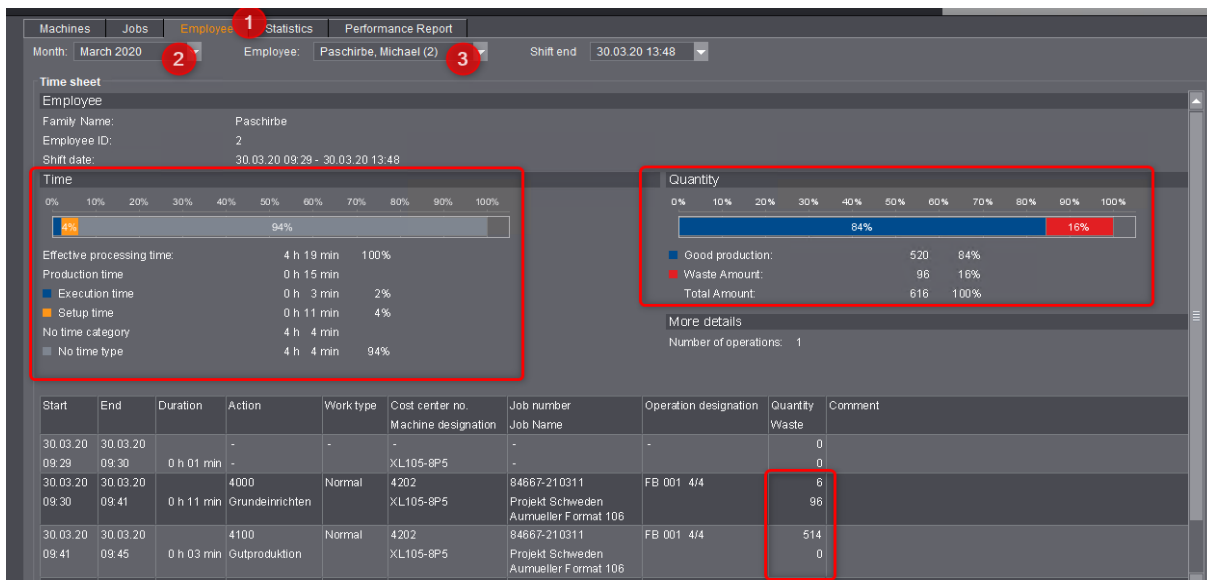
Job number	Operation designation	Start	End	Waste Amount	Good production	Total Amount	Last Modified
84667-210311	FB 001 4/4	30.03.2020 09:30	30.03.2020 09:45	96 0 h 11 min	520 0 h 03 min	616 0 h 15 min	30.03.20 13:46 Vieweg, Andreas

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.



The employee time sheet displays the changes too.



7 Plate Pilot

7.1 Performance Constancy for External Platesetter

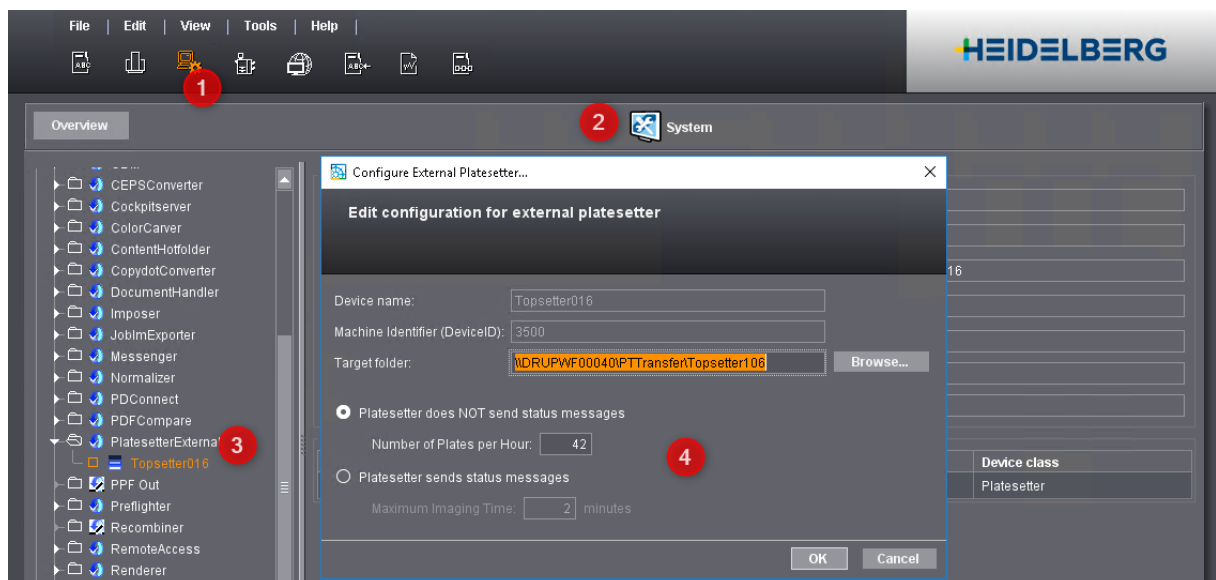
Motivation

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

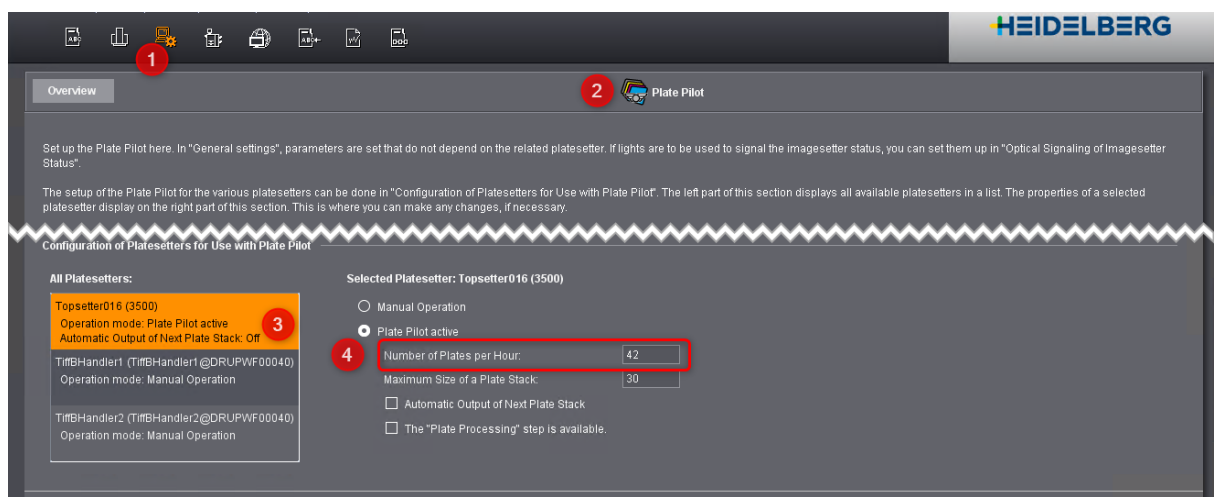
The performance (Plates per hour) of the platesetter must be consistent to the Plate Pilot setup, because this value is used for the calculation how many plates can be produced just in time for scheduled press operations.

Description

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



... the Plate Pilot.



7.2 Platesetter Start Widget

2020.10

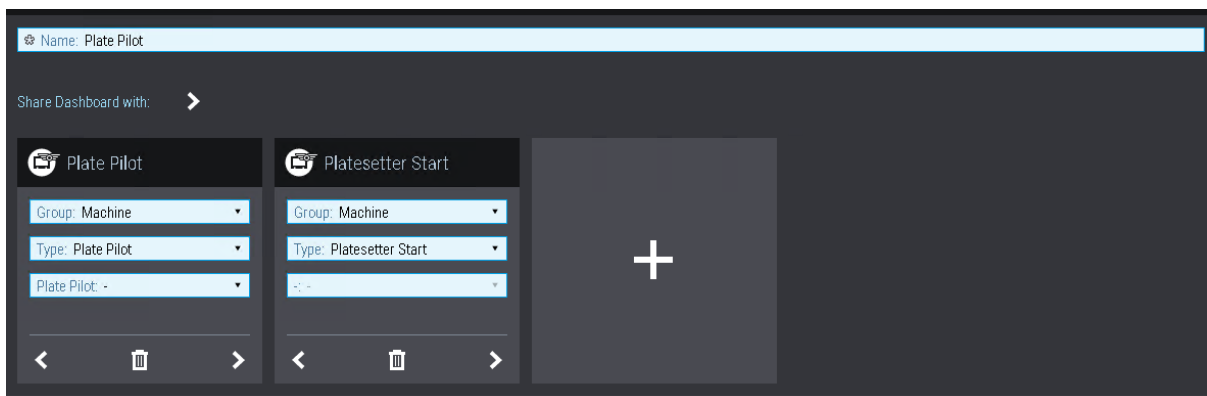
Note: This feature was implemented in Prinect Production Manager 2020.10.

Motivation

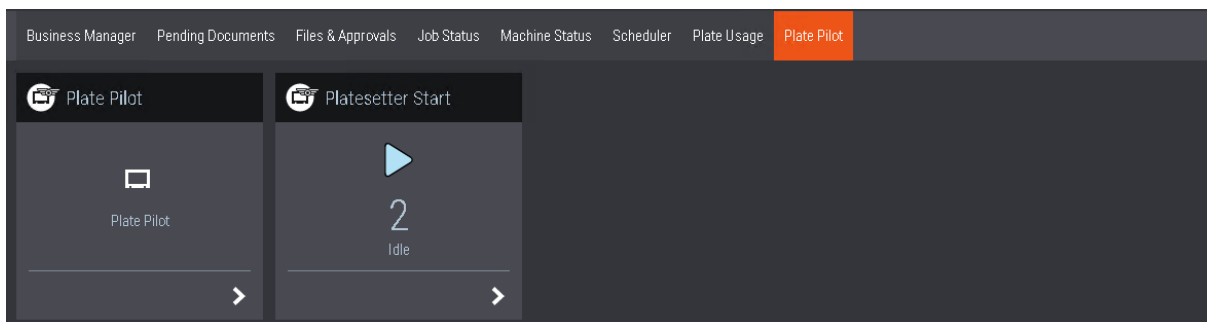
All Plate Pilot controlled platesetters should be displayed in a Portal widget

Description

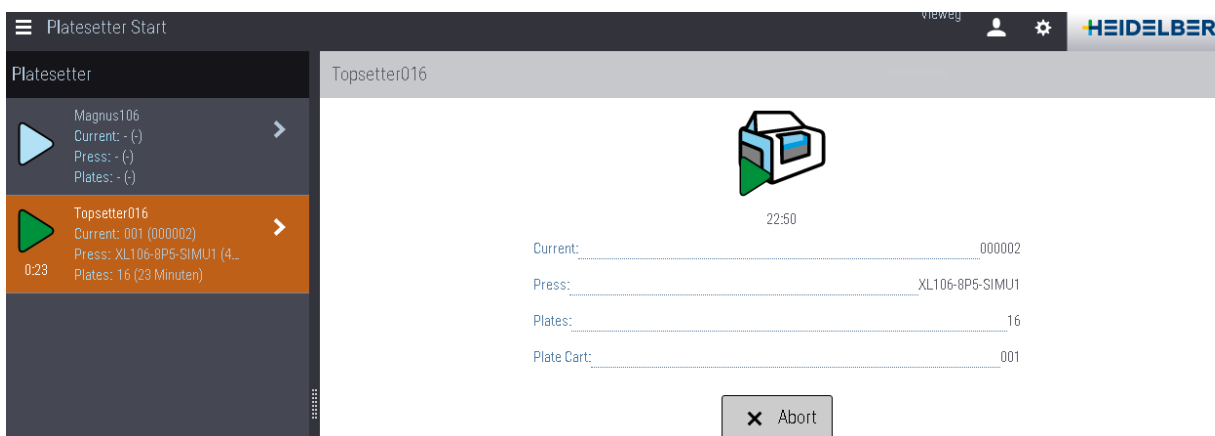
The widget "Platesetter Start"...



... 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.



7.3 Abort a running Plate Stack in Plate Pilot

2020.10

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



Wording: "Plate Set" and "Plate Stack"

- 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.

The screenshot displays the Plate Pilot software interface. On the left, the 'Press' section shows machine information for 'XL106-8P5-SIMU1' and 'XL106-8P5-SIMU2'. The central 'Plate Stacks' table lists the following data:

Availability	Stack ID	Print start	Print end	Job number
0 (8)	Unbatched plates for XL106-8P5-SIMU1 from DRUPWF00040	-	-	100018, 100038, 1000
0 (8)	Unbatched plates for XL75-5L from DRUPWF00040	-	-	100018, 100053

At the bottom of the 'Plate Stacks' section, the 'Re-Image Plates' button is highlighted with a red box. On the right, the 'Plattenbelichter' section shows machine information and a red 'Abbrechen' button.

7.4 Remove Operation from Stack

2020.10

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

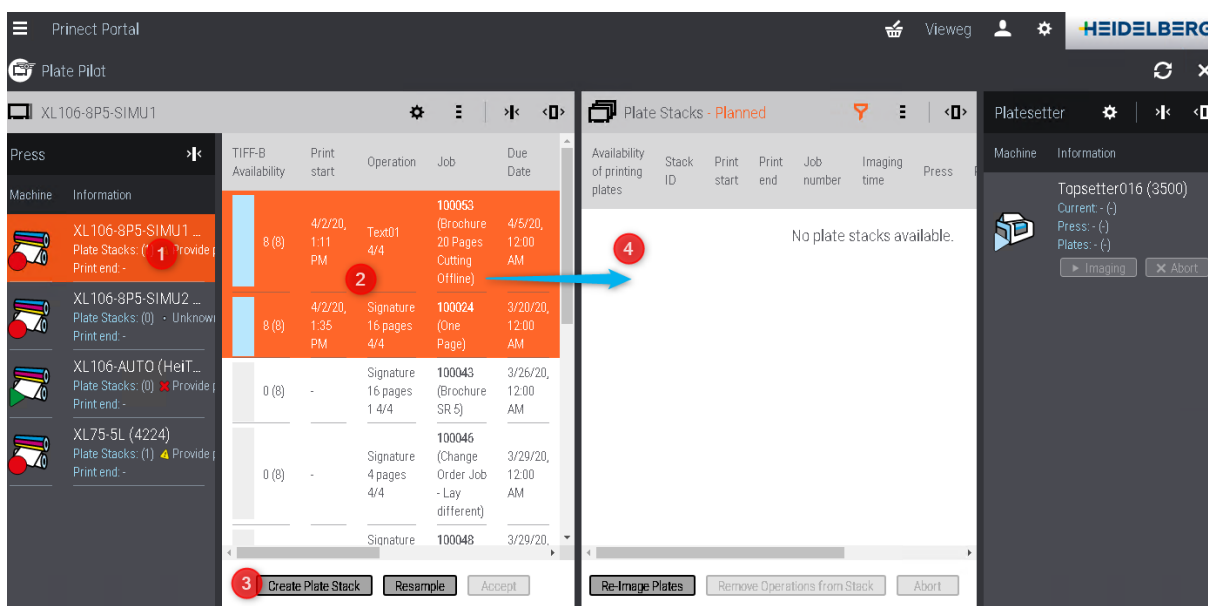
Motivation

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

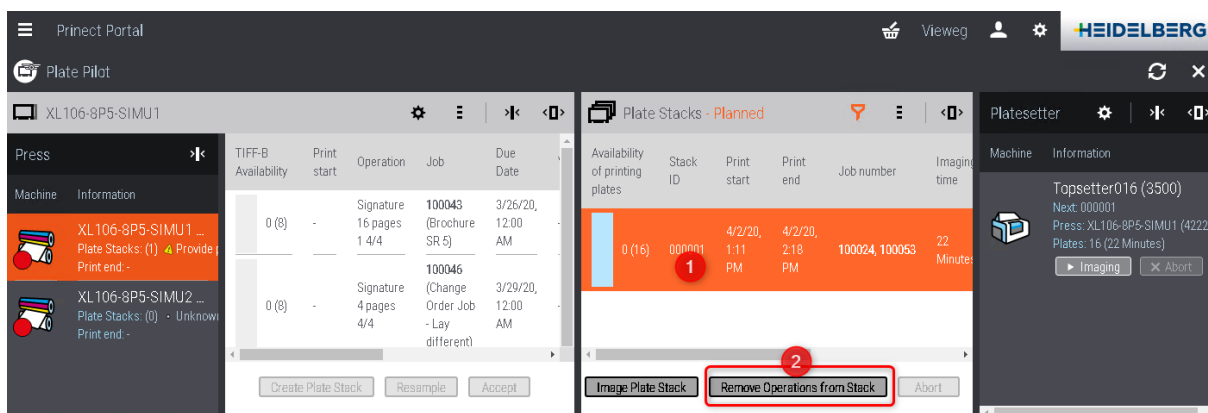
For the first scheduled Press Operation we have 2 Plate Sets with calculated Tiff-B's.

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

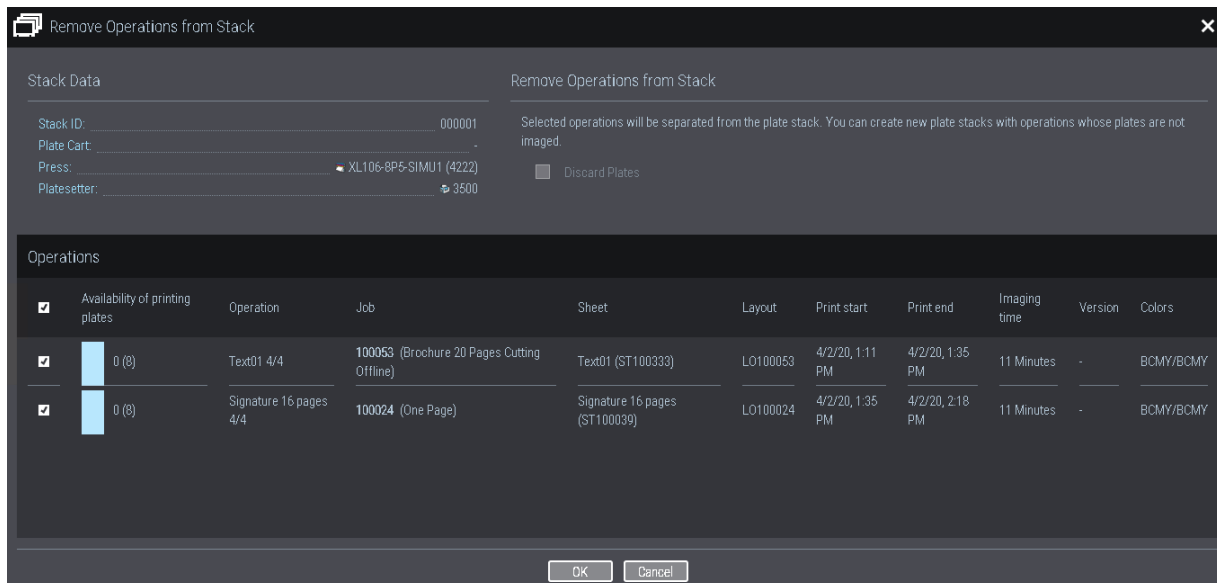


The Plate Stack is waiting for imaging, because we haven't used the automatic mode for output.

It is possible to "Remove Operations from Stack" of aborted or waiting Plate Stacks.

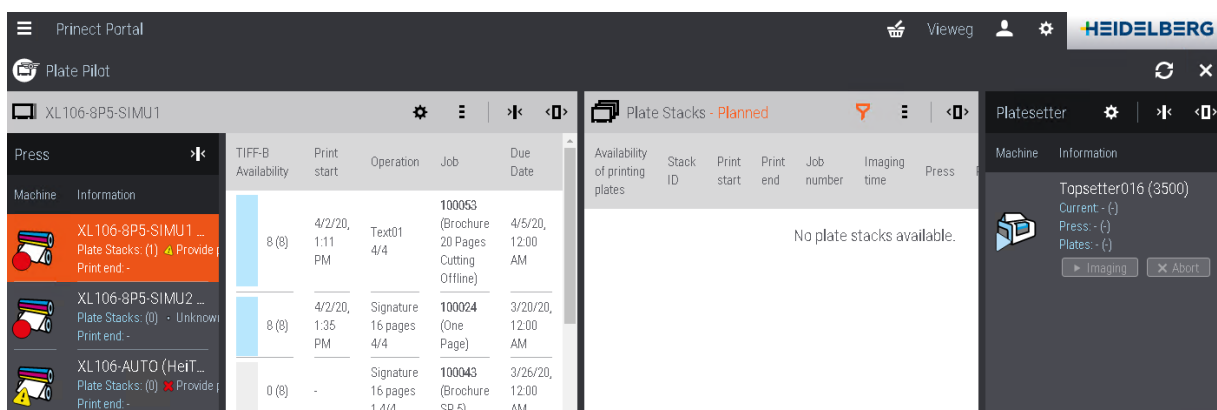


In the dialog we can select which Plate Sets we want to remove from the Plate Stack.



Result

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



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):

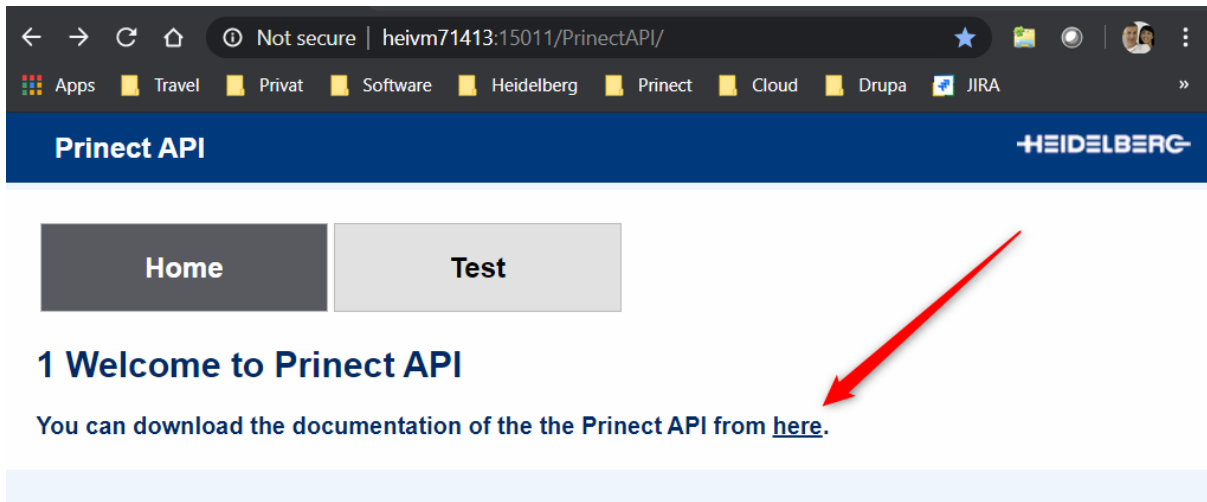
- Type: PrintedSheet, StartupSheet, UnprintedSheet, ...
- Class: Good, Waste, Unprinted
- Destination: DeliveryPile, SampleSheetTable, WasteCollector
- Inspection state*: #inspection deviations detected
- Code inspection state*: #code errors detected
- Color quality deviation**

/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.



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: <http://INTSERVER/:15011/PrinectAPILocal/>

OR

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

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

All licenses				
Valid licenses				
Permanent licenses				
Time-limited licenses				
Workstation: DRUPWF00042 Product: Prinect Engines, 21.0 LSN: 103246				
Workstation	Product / Option	State	Instances	Used
▶	64 Business Manager Service	-	U	
▶	66 Prinect Scheduler	-	0	
▶	69 Autopreset	-	0	
▶	70 Analyze Point - Base	-	0	
▶	75 Prinect Mobile	-	0	
▶	76 Connecting Press	-	0	
▶	77 Connecting Digital Press	-	0	
▶	78 Connecting Postpress	-	0	
▶	79 Connecting Manual Labour	-	0	
▶	80 Connecting Manual Prepress	-	0	
▶	81 Data Terminal Prepress	-	0	
▶	82 Data Terminal Press	-	0	
▶	83 Data Terminal Postpress	-	0	
▶	84 Data Terminal Digital Press	-	0	
▶	87 Komori	-	0	
▶	89 Goss	-	0	
▶	93 SQL Cores	-	0 (max. 16)	
▶	94 System and Database Access	🕒 Feb 19, 2021	1	
▶	97 Prepress Portal Service	-	0	
▶	99 Generic Postpress Interface	-	0 (max. 15)	

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Version 2021

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