

AGF/

Calibrated Printing Modes (CPMs) may require adjustments to enhance their usefulness. These adjustments can range from small tweaks like different color profile settings (GCR) or updated print modes (e.g., faster bi-directional CPM), to more significant changes such as switching media or engine (as long as they are compatible).

In some cases, these modifications can be made by creating new derived CPMs. However, creating new derived CPMs involves several print and measure steps, which may not always be feasible due to time constraints. Therefore, there is a need for a quick test using a modified CPM. This tutorial will explain how to modify existing CPMs without the need for printing or measuring.

Generic CPMs cannot be edited. They need to be kept unaffected to derive new CPMs.

1. Copying CPMs

CPM can be copied in different directions: to a different media type or even towards another engine (as long as both source and destination engines are compatible).

Copying a CPM to another media

This exercise will learn how to copy existing CPMs to a new media type.

- 1. Open the Media Hub.
- 2. Click File New Media
- 3. Name the new media "Tutorial.
- 4. Go to your original CPM (e.g. from the Generic Media), select the CPM, and drag it to the new "Tutorial" media.
- 5. Once released the Asanti client will ask in what status the CPM needs to get.

🛃 Asanti	×
Copy "HighQ-8P Bi 1016x1200 APS-6C-Generic-V1-W-RCG5-Nb-CMYKcm+PV (Anuvia 250 + 050 White + Jeti Primer)" to "Tutorial"	v
It is recommended to update the calibration and color profiles of the copied CPM. The copied CPM will be marked as changed.	
Copy as Available. Copy as Changed. Cancel	

• As available: The CPM has the same resources (Calibration table, ICC profile, print mode, etc....) as the original, but with a new name. These CPMs may be less than optimal for the new media as they are not measured.

Clear Selection					×	Name: Generic	
ualities	Media		Calibrated Printing Modes			Rente: Generic	
Quality	Category	A ^	Printer	Calibrated Printing Mode		Media	
U Qualties	All Media		Jeti Tauro H 2500 Simulator	Expr - 2P Bi 635x1200 APS - 6C		Form	: O Sheet only
raft	Cardboard		Jeti Tauro H 2500 Simulator	Expr - 2P Bi 1016x1200 APS - 6C			O Roll only
xpress	Film		Jeti Tauro H 2500 Simulator	HighD - 12P 725x1200 AQS Gloss			
roduction	Foam Board		Jeti Tauro H 2500 Simulator	HighD - 12P Bi 725x1200 AQS - 6C			 Both
ALIBRATION	Generic		Jeti Tauro H 2500 Simulator	HighDens - 8P Bi 1016x1200 APS		Default thickness	125 micron
IGH	Paper		Jeti Tauro H 2500 Simulator	HighDens - 12P Bi 1016x1200 AQ		Delduit ultovieso	
tandard	Synthetic Board		Jeti Tauro H 2500 Simulator	HighQ - 8P 725x1200 APS Gloss - 6C		Categories	
ECHNICAL	Synthetic Substrates		Jeti Tauro H 2500 Simulator Jeti Tauro H 2500 Simulator	HighQ - 8P Bi 725x1200 APS - 6C HighQ - 8P Bi 1016x1200 APS - 6C	-	-	
EURINICAL ,	Syntheoc Substrates		Jeti Tauro H 2500 Simulator Jeti Tauro H 2500 Simulator	Prod - 4P Bi 635x1200 APS - 6C Prod - 4P Bi 635x1200 APS - 6C		Generic	
	Media	A ^	Jeti Tauro H 2500 Simulator	Std - 8P 635x1200 APS - 6C			
inters	Generic	•	Jeti Tauro H 2500 Simulator	Std - 8P BI 635x1200 APS - 6C		Media Calibration	
Printer	GPrint	+	560 1001011 2500 5110000	310 - 0- 0-03321200 8-3 - 00		Media Calibration	
oson SureColor S50600	Grafiprint	+				() Media pe	eds dedicated calibrated printing modes
pson SureColor S30600	Iconos						n use same calibrated printing modes as
	KHS-Brown					 Media car 	n use same calibrated printing modes as
pson SureColor T3200	KHS-Green	-					
pson SureColor T5200	KHS-Transparent	-					
pson SureColor T7200							
ieneric SD	Oracal					Printer Parameters	
ndustrial Front End	PM120						
eti Ceres RTR.3200 LED	SelectJet	*				Adjust Printer Parame	eters for printing on "Jeti Tauro H 2500 Simulator"
eti Mira LED MG 2716 HS	Sherpa Proofing Base 170	*					
eti Mira MG 2716 HS	SP8170	+				Adjust	
eti Mira MG 2716 HS (2)	SP8250	+					
ati Tauro H 2500	Synaps	+					
eti Tauro H 2500 Simul	Synaps SA	+					
eti Tauro H 2500 Tutorial	Test	+					
eti Titan HS Simulator	Test 2	+					
Inknown	Tricotex	-					

• As changed: CPM receives a changed label. The CPM can be used but a warning will be generated mentioning the CPM has been changed. The changed label can be resolved by calibrating the new CPM and doing a profile tune.

6. Click "Copy as Changed". The CPM is then copied and converted to the new media (this might need some time). The CPM will become available but each calibration set will be labeled changed.

The new CPM has now been labeled as changed. This label indicates that the quality of output cannot be guaranteed and needs to be checked. This can be done by calibrating (and eventually profile tune). Once the quality is acceptable, then the CPM changes can be accepted.

Clear Selection		×	Calibrated Printing Mode
Qualities	Media	Calibrated Printing Modes	Name: HighO - 8P Bi 1016x1200 APS - 6C
Quality ^	Category A	Printer A Calibrated Printing Mode	
U Qualties	All Media	A Jet Tauro H 2500 Simulator HighO - 8P Bi 1016x1200 APS - 6C	Used for: High Quality on Jeti Tauro H 2500 Simulator on Tutori
raft	Cardboard	Ň	Inks: CMYKom+PW (Anuvia 250 + 050 White + Jeti Primer)
oress	Film		Colors: CMYKcm
roduction	Foam Board		Created: 07/15/15 14:45:43
ALIBRATION	Generic		Creater: CPM Wizard (from scratch)
IGH	Paper		
tandard	Synthetic Board		Comments:
ECHNICAL	Synthetic Substrates		
· · · · · · · · · · · · · · · · · · ·	Media 🔺		
inters	GPrint +		
rinter 🔺 ^	Grafprint +		
oson SureColor 550600	Iconos +		Color On Media - Changed
pson SureColor S70600	KHS-Brown +		Print mode: 8P Bi Calbrated: 02/16/16 10:37:39
son SureColor T3200	KHS-Green +		
son SureColor T5200	KHS-Transparent +		Profile: embedded Measurement mode: M0
Ison SureColor T7200	Oracal +		PST/TAC: WF-UghtGCR / 300%
neric SD	PM120 +		
dustrial Front End	SelectJet +		
ti Ceres RTR 3200 LED	Sherpa Proofing Base 170 +		Color On White - Changed
ti Mira LED MG 2716 HS	SPB170 +		Color On White - Changed
ti Mira MG 2716 HS	SP8250 +		Print mode: 8P Bi Calibrated: 07/15/15 14:45:43
ti Mira MG 2716 HS (2)	Synaps +		Profile: embedded Measurement mode: MO
ti Tauro H 2500	Synaps SA +		PST/TAC: WF-UghtGCR / 300%
ti Tauro H 2500 Simul	Test +		Forjino, miluginoux j 30076
ti Tauro H 2500 Tutorial	Test 2 +		
ti Titan HS Simulator	Tricotex +		
nknown	Tutorial		White &

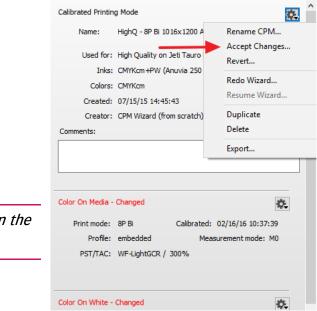
Accepting the CPM changes

The status of the CPM can be updated to mark it as "Available" without an orange label.

- 1. Click on the cogwheel of the CPM (or context-click on the CPM itself).
- 2. Click on "Accept Changes..." and click "OK" to accept the changes.

🛃 Asanti	×		
Do you want to mark this CPM as fit for use?			
Printing with a changed CPM that has not been recalibrated or tuned up may produce unacceptable results. You will not be warned any longer when using this CPM in a job.			
OK Cance	el l		

Changes can also be accepted on an individual calibration set (on media, on white ...) by clicking on the cogwheel next to the individual calibration set.



Copying a CPM to another engine.

Drag and drop can also be used between digital presses if they are compatible. The system will refuse to copy when this isn't the case. The drag and drop is an alternative and more user-friendly way than exporting/importing (still available to exchange CPMs between different Asanti servers).

- 1. Go to your original CPM, select the CPM, and drag it to another digital press.
- 2. Once released the Asanti client will copy the CPM to the alternative engine.
- 3. The CPM is now available in a <u>changed status</u>.

le Edit				
Clear Selection				X
oca occom				Name: Generic
Qualities	Media	Calibrated Printing Modes		
Quality ^	Category 🔺 ^	Printer	Calibrated Printing Mode	Media
Il Qualties	All Media	Jeti Tauro H 2500 Simulator	Expr - 2P Bi 635x1200 APS - 6C	Form: Sheet only
aft	Cardboard	Jeti Tauro H 2500 Simulator	Expr - 2P Bi 1016x1200 APS - 6C	O Roll only
press	Film	Jeti Tauro H 2500 Simulator	HighD - 12P 725x1200 AQS Gloss	
oduction	Foam Board	Jeti Tauro H 2500 Simulator	HighD - 12P Bi 725x1200 AQS - 6C	Both
LIBRATION	Generic	Jeti Tauro H 2500 Simulator	HighDens - 8P Bi 1016x1200 APS	Default thickness: 125 micron
GH	Paper	Jeti Tauro H 2500 Simulator	HighDens - 12P Bi 1016x1200 AQ	
andard	Synthetic Board	Jeti Tauro H 2500 Simulator	HighQ - 8P 725x1200 APS Gloss - 6C	Categories
		Jeti Tauro H 2500 Simulator Jeti Tauro H 2500 Simulator	HighQ - 8P Bi 725x1200 APS - 6C HighQ - 8P Bi 1016x1200 APS - 6C	
CHNICAL	Synoleuc Substrates	Jeti Tauro H 2500 Simulator Jeti Tauro H 2500 Simulator	HighQ - 8P Bi 1016x1200 APS - 6C Prod - 4P Bi 635x1200 APS - 6C	Generic
	Media 🔺 ^	Jeti Tauro H 2500 Simulator	Std - 8P 635x1200 APS Gloss - 6C	
nters	Generic +	Jeti Tauro H 2500 Simulator	Std - 8P Bi 635x1200 APS - 6C	Media Calibration
rinter	GPrint +	360 1001011 2000 3410000	510-0-0-05531200 8-5-00	Media Calibration
oson SureColor S50600	Grafiprint +			Media needs dedicated calibrated printing modes
son SureColor S70600	Iconos +			Media can use same calibrated printing modes as
son SureColor 570600	KHS-Brown +			Media can use same calibrated printing modes as
	KHS-Green +			
son SureColor T5200	KHS-Transparent +			
son SureColor T7200	Oracal +			
neric SD				Printer Parameters
dustrial Front End	PM120 +			
i Ceres RTR 3200 LED	SelectJet +			Adjust Printer Parameters for printing on "Jeti Tauro H 2500 Simulator"
i Mira LED MG 2716 HS	Sherpa Proofing Base 170 +			
t Mira MG 2716 HS	SP8170 +			Adjust
1 Mira MG 2716 HS (2)	SP8250 *			
i Tauro H 2500	Synaps +			
ti Tauro H 2500 Simul 📍	Synaps SA			
ti Tauro H 2500 Tutorial 🔫	Tort +			
ti Titan HS Simulator	Test 2 +			
known	Tricotex +			
~	Tutorial + Y			< >

2. Changing the profile settings of a CPM.

Profiles are always created based on a measurement file. This can be done by various applications that can generate ICC profiles (including the Asanti client). How this measurement file is calculated to a profile is described in the profile steering file (PST). The calculation can be done with different settings. One of the differences in the GCR settings (replacement by the common CMYK black component by the black ink). Low GCR settings use more CMY tints. Heavy GCR settings use more black ink and less CMY. This can make output noisy (black drops can easily be distinguished) but these prints dry much better.

Lowering the TAC can be useful when drying problems affect the shadow parts of an image. The TAC level is the maximum amount of ink/color that will be printed on top of each other.

- 1. Select a CPM of the "Tutorial" media, context-click, and click "Duplicate".
- 2. Select the newly duplicated CPM.
- 3. In the right pane (CPM details) click on the cogwheel next to the Color on Media details. Click on "Edit Profile Settings ..."
- 4. A profile settings window will open. From the dropdown menu select the WF-LightGCR-v2 steering file (PST). Lower the TAC to 280%. Click OK.

Change Profile Creation Settings			×
Select new settings for profile creation			
PST/Profile	WF-LightGCR-V2		\sim
TAC	280 %		
		Create Profile	Cancel

5. The CPM details are updated with the new PST and TAC level active.

Color On Media			<u>\$</u> .
Print mode:	8P Bi	Calibrated:	02/16/17 15:08:08
Profile:	embedded	Mea	surement mode: M1
PST/TAC:	WF-LightGCR-V	2 / 280% 🖪	◀

Calibrated Printin	g Mode	-1
Name:	HighQ - 8P Bi 1016x120	0 APS - 6C copy
Used for:	High Quality on Jeti Tau	iro H 2500 Tutorial on GPrint
Inks:	CMYKcm+PW (Anuvia 2	250 + 050 White + Jeti Primer)
Colors:	CMYKcm	
Created:	02/16/17 14:57:45	
Creator:	CPM Wizard (derived)	
Comments:		
Color On Media		<u>¢.</u>
Print mode:	8P Bi Ca	Calibrate
Profile:	embedded	Update G7 Calibration
PST/TAC:	WF-LightGCR / 300	Tune Profile
		Edit Profile Settings 🗲
		Edit Print Mode
Color On White		Accept Changes
Print mode:	8P Bi Ca	Report
Profile:	embedded	Import External Profile
PST/TAC:	WF-LightGCR / 300	Export Profile
	-	

3. Changing the Print Mode of a CPM

The print mode of an existing CPM can be changed. This can be done to make the additional flavor of a CPM (bi- and uni-directional) or to improve the print quality (e.g. adjust the paper feed adjustment parameters of an Epson digital press).

Keep in mind that Agfa Certified CPMs are made in the Agfa labs by taking into account the capacity of the engine in speed/quality balance but also what the print heads can handle. Derived CPMs build further on these experiences. Changing print modes may affect this balance. So, be careful in changing print modes since they do not guarantee a good quality or worse: faster aging of the print heads.

1. Again, duplicate a tutorial CPM. Calibrated Printing Mode <u>0</u>-2. Select the newly duplicated CPM. Name: HighQ - 8P Bi 1016x1200 APS - 6C copy 3. In the right pane (CPM details) click on the cogwheel next to the Color on Media Used for: High Quality on Jeti Tauro H 2500 Tutorial on GPrint details. Select "Edit Print Mode ..." from the menu. Inks: CMYKcm+PW (Anuvia 250 + 050 White + Jeti Primer) 4. The dropdown menu allows selecting from a list of print mode presets. Colors: CMYKcm Created: 02/16/17 14:57:45 Print Mode "Color on Media" Х Creator: CPM Wizard (derived) Comments: Print Mode: 8P Bi 1016x1200 APS ~ 0 12P Bi 1016x1200 AQS PD200 12P Bi 1016x1200 ED High Dens 2P Bi 1016x1200 APS It's reco 8P Ö, 8P Bi 1016x1200 APS PD200 Color On Media Calibrate... Print mode: 8P Bi OK Cancel Update G7 Calibration... Profile: embedded Tune Profile.. PST/TAC: WF-LightGCR-V2 / 28 Edit Profile Settings. Edit Print Mode.. Color On White Accept Changes.. Print mode: 8P Bi Report... Cali Profile: embedded Import External Profile... PST/TAC: WF-LightGCR / 300% Export Profile... White ÷. Print mode: 8P Bi

100% Ink Limit: 65%

Only print modes with the same resolution will be displayed.

- Click → to open the Print Mode parameters window of the presets, which allows changing a limited amount of (safe) print settings. Change a couple of things and notice the updated naming convention.
- 6. Click "OK" to accept the changes.
- 7. The filename of the print

mode will now be displayed in italics to indicate the changed print mode (the print mode is not "standard" anymore). Click "OK" to update the CPM.

Print Mode Parameters - Color On Media

Resolution 1016x1200

Direction Uni-Directional

CPM "HighQ - 8P Bi 1016x1200 APS - 6C copy" for GPrint on Jeti Tauro

%

Print Mode parameters for Color On Media

Name: 8P Uni 1016x1200 + APS

Droplets per dot 01DPD

UV Leading 20

UV Trailing 80 Masking Mode Flat

Mask 0

Number of passes

H 2500 Tutorial.

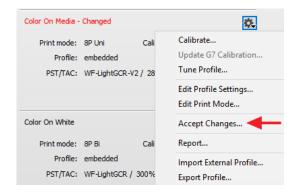
×

8. The CPM is now updated but is in a changed state. Eventually, do a calibration (and profiling) cycle to update the CPM with new measurements.

Color On Media - Changed						
Print mode:	8P Uni	Calibrated:	02/16/17 15:08:08			
Profile:	embedded	Meas	surement mode: M1			
PST/TAC:	WF-LightGCR-V2	/ 280%				

9. Open the cogwheel and click "Accept Changes..." to make the CPM available without restrictions.

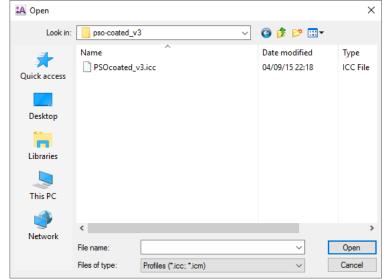
Print Mode "Color on Media"			×
Print Mode	8P Uni 1016x1200 APS	~ 0	
Philiphode.	or Uni 1010x1200 Ar5	•	
It's reco	mmended to calibrate when changing printing parameters		
		ОК	Cancel



4. Importing an external profile.

An external profile can be added to the CPM. This external profile will replace the existing profile. Keep in mind that there will be no possibility to tune the profile with a limited profile target. It is always possible to revert to the original profile.

- 1. Again, duplicate one of the "Tutorial" CPMs.
- 2. Select the newly duplicated CPM.
- 3. Click on the cogwheel in the right pane (CPM details) next to the Color on Media details.
- 4. Click "Import External Profile ..."
- 5. A file dialogue will open. Browse to your external profile (ICC or icm) and click open to add the profile to the CPM.



Color On Media			÷.
	8P Uni Cali embedded WF-LightGCR-V2 / 28		Calibrate Update G7 Calibration Tune Profile
			Edit Profile Settings Edit Print Mode
Color On White			Accept Changes
Print mode:	8P Bi Cali		Report
Profile:	embedded	•	Import External Profile
PST/TAC:	WF-LightGCR / 300%	_	Export Profile

6. The profile is now added to the CPM. The CPM details are updated.

Color On Media		¢.
Print mode:	8P Uni	Calibrated: 02/16/17 15:08:08
Profile:	external	Measurement mode: M1
Profile Name:	PSOcoated_v3	◀

The options to tune the profile or to change the profile settings will now be greyed out. The Media Hub is not able to change or update any profile parameters of third-party profiles.

To revert a CPM to the initial profile.

The media hub still allows going back to a previous profile (also valid for calibration). The CPM is not lost if the external profile is not suitable for any reason.

- 1. Select the CPM with the external profile.
- 2. In the cogwheel of the CPM itself. Click "Revert...".
- 3. This will open the CPM history.

Select the Profile import action and click revert to go back in time.

Revert CPM	×	
Select CPM Version		
Date	Job Type	
Date 02/24/17 11:56:22	Job Type Profile import (On media)	

Calibrated Printin	g Mode		82
	HighQ - 8P Bi 1016x1200 High Quality on Jeti Taur	οH	Rename CPM Accept Changes Revert
Colors:	CMYKcm+PW (Anuvia 25 CMYKcm	i0 +	Redo Wizard Resume Wizard
	02/16/17 14:57:45 CPM Wizard (derived)		Duplicate
Comments:		_	Delete Export
			·
Color On Media			<i>ф</i> .
Print mode: Profile:	8P Uni Calibra external		16/17 15:08:08 ment mode: M1
Profile Name:	PSOcoated_v3		

5. Changing the 100% ink limit of varnish or white layers.

Additional inks such as white, varnish, and primer are printed as a fixed layer of ink, no characterization is done. In certain situations, it might be that the print quality of these additional inks isn't as it should be (media specificities, print limitations ...). In those cases, it might be useful to change the level (100% ink level) of used white or varnish.

- 1. Context-click on the CPM in the Media Hub.
- 2. Click on the cogwheel next to the White (or Varnish) calibration set.

Print Mode "White"		×
Print Mode:	8P Bi 1016x1200 APS	0
100% Ink Limit:	70 %	
	ОК	Cancel

3. Change the 100% Ink Limit levels of white and/or varnish.

The available levels of varnish and white depending on the applications available in the CPM. Varnish will be disabled when there is no varnish calibration set available. A CPM without an "on white" calibration set can still contain a white printing mode and ink limit level. The white is then used for post-white printing.

4. The CPM will be updated with the new 100% Ink Level for white.



White		÷.
Print mode:	8P Bi	Edit Print Mode
100% Ink Limit:	65%	