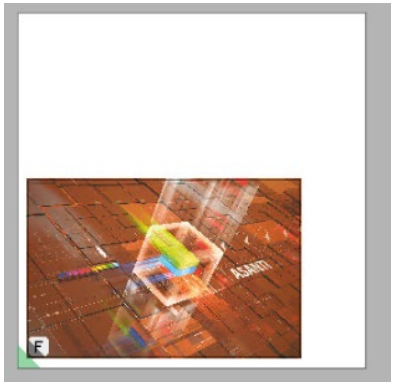
Working with Tauro

This tutorial demonstrates how to print jobs to a Tauro printer.

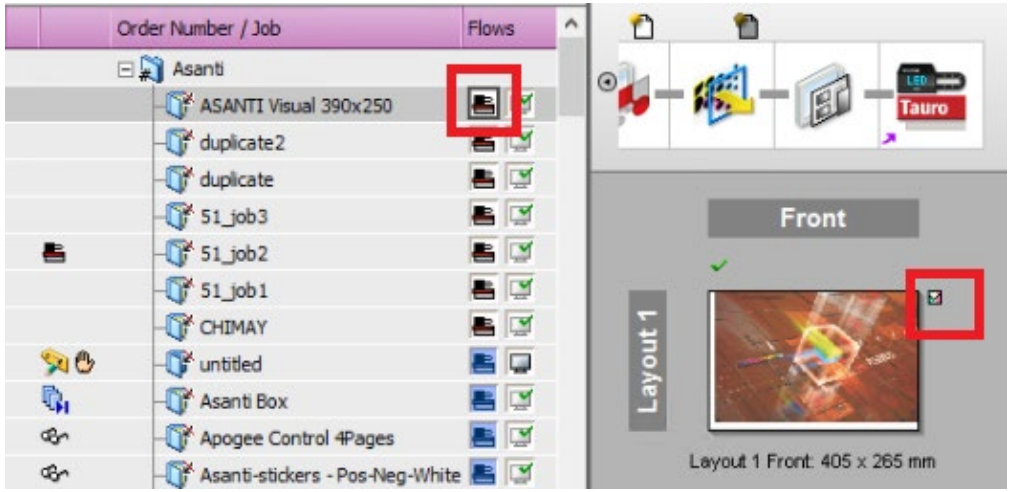
Download the Asanti Sample Files via the Asanti Client (Help > Asanti Online > Download Sample Files).

1. Send a job to Tauro

1. Open the Asanti client jobs window.
2. File menu > New Wide Format job.
   - Select Printer: Jeti Tauro.
   - Select a Media e.g. 500x500mm.
   - Select a quality.
   - Select Finishing Margins “iCut Corner Marks, between 10”.
3. File>Add Products, open ″ASANTI Visual 390x250.pdf″ and place the product on the sheet. The product is positioned in the lower left corner of the Sheet.
4. Submit job > Print Files: Make and send to printer.



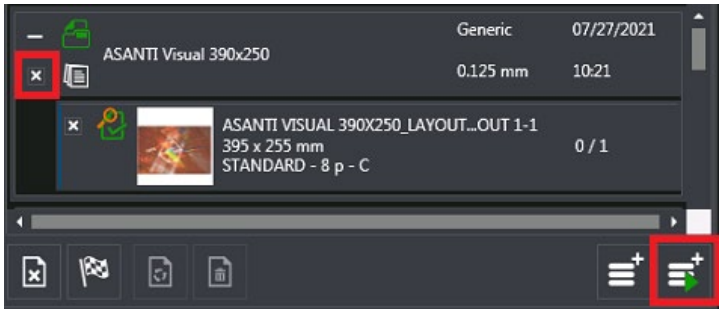
- When a Print Layout has finished processing in Asanti, it shows a rendered icon in the Jobs window results tab next to the thumbnail of the Sheet. When the job is finished processing in Asanti, it gets a not-busy icon in the Jobs list.



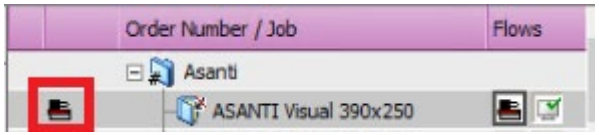
- The job shows up in the Tauro GUI Ready list “Ready” queue.

5. In the Tauro client “Ready” List, click on the Layout to see its thumbnail and settings.

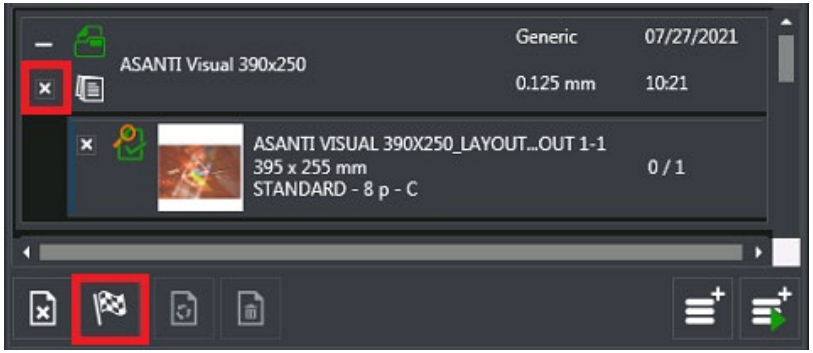
6. Tauro 2500 GUI 3.x: Click Prepare Print and print the job.
   Tauro 2500 GUI 4.0 or higher/Tauro 3300: Select the layout, click “Add the selected layouts to the queue and start printing”.



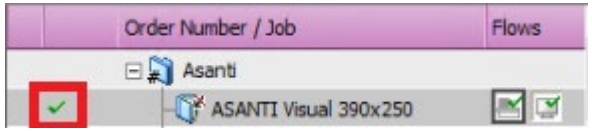
   The Asanti Client shows an icon that the Tauro is busy printing the job.



7. After the job is printed, in the Tauro GUI Ready queue, enable the checkbox next to the Layout.
8. Click Finish (The Tauro client can also automatically finish the job when it is printed).



   The job is moved to the Tauro GUI Finished Queue.
   The Asanti job gets a finished state. The printer icon next to the Asanti job is gone.

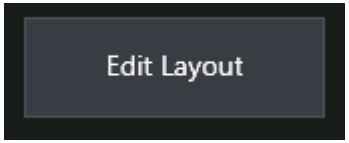


2. Edit an existing job in Asanti client

1. In Asanti client, double click a job that is already sent to the Tauro GUI.
2. Make a change e.g. rotate the product on the sheet.
3. Submit job > Print Files: Make and send to printer.
4. Wait until all processing is done in Asanti.
5. To update the thumbnail of the job in the Tauro GUI, click the layout name again.

3. Edit a Layout Job from Tauro GUI

Select a Layout in Tauro GUI and click the “Edit Layout” button. This opens the Layout in Asanti client Layout Editor. The Asanti client should be running (Minimized) on the Tauro PC before you click this button.

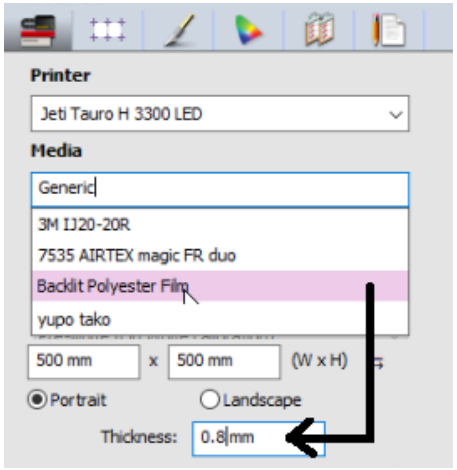


4. Media Thickness

1. Use default Media Thickness in a job

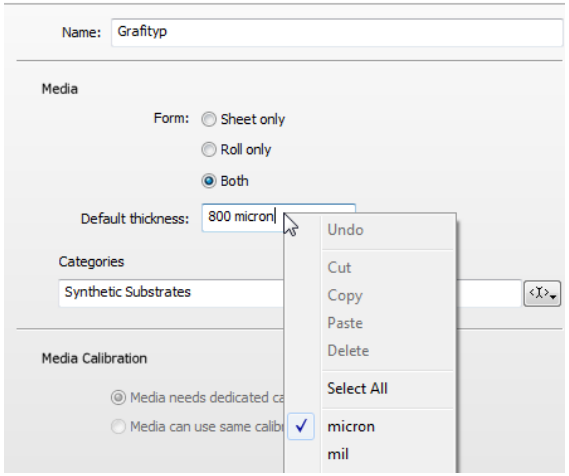
1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. (Re-)Select a Media in the Media drop down. This will fill in the default Thickness for this Media in the Thickness field.

When creating a New Wide Format job from template, the Thickness will be set the same as it was when saving the ticket template. This value could be different from the default Media Thickness. To get the default Media thickness, reselect the Media in the Media drop-down.



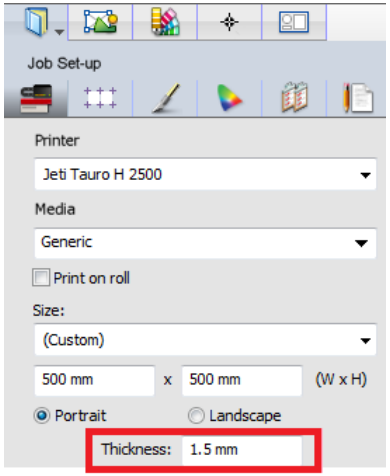
2. Setup default Media Thickness

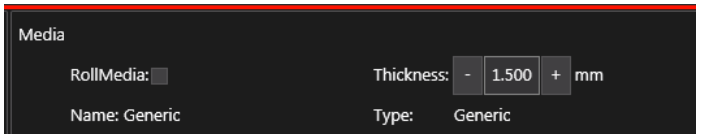
1. Open System Overview>Jeti Tauro>Media Hub.
2. Select a Media that contains CPM's in the Media column.
3. To change default units, context click in the "Thickness" field, select the wanted units.
4. Enter the default Thickness for the current Media and press <ENTER>.
5. (Re-)Select the media in a job: the new default thickness is automatically set.



3. Override Thickness at Asanti job level

1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Select a media, the default thickness is set.
4. Change the Thickness value.
5. File>Add Products, open "ASANTI Visual 390x250.pdf"
   and place the product on the sheet.
6. Submit job > Print Files: Make and send to printer.
7. In the Tauro Ready list, click on the Layout.
8. The correct thickness is set.

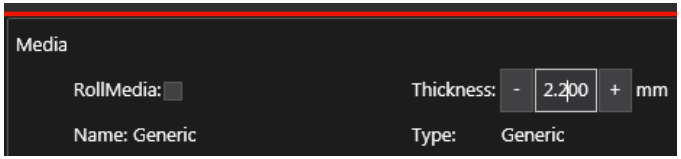




4. Set Thickness in Tauro GUI

Thickness CAN be overwritten in Tauro GUI:

1. In a job in Tauro GUI, change the thickness value and click the Tab key.
2. Click the button to save changes. When you change Thickness in Tauro GUI for a specific job, the thickness of this job will never be overwritten anymore by Asanti.



5. Printer Parameters

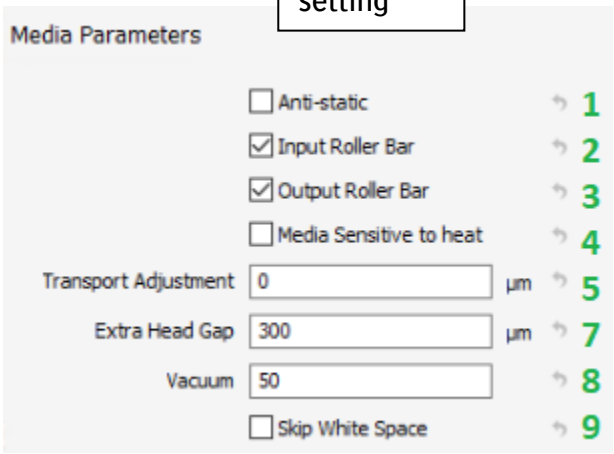
There are 2 types of Printer Parameters: Media Parameters and Print Mode Parameters.

1. Media Parameters

The following Media Parameters can be set in Asanti or Tauro:

	Asanti setting	Asanti Default	Tauro setting
	Anti-static	OFF	AntiStatic
	Input Roller Bar	ON	InputRollbar
	Output Roller Bar	ON	OutputRollbar
	Media Sensitive to heat	OFF	IsHeatSensitive (not visible in Tauro GUI)
	Transport adjustment	0 µm	Transport Adjust
	Extra Head Gap	300 µm	Head Gap on Tauro = Asanti Extra Head Gap setting + Fixed minimum head gap (1mm) + 1.5mm if **media feed support** is enabled on Tauro
	Vacuum (Only for Tauro 3300)	50	Value between 0 and 100. Only for Tauro 3300 (Not available yet on latest Tauro GUI, Asanti parameter is not honored yet by Tauro).
	Skip White Space	OFF	When you enable the "Skip White Space" option then large parts of white content will be skipped during the printing process which will improve printing speed. Only enable this option if the installed Tauro software supports it.

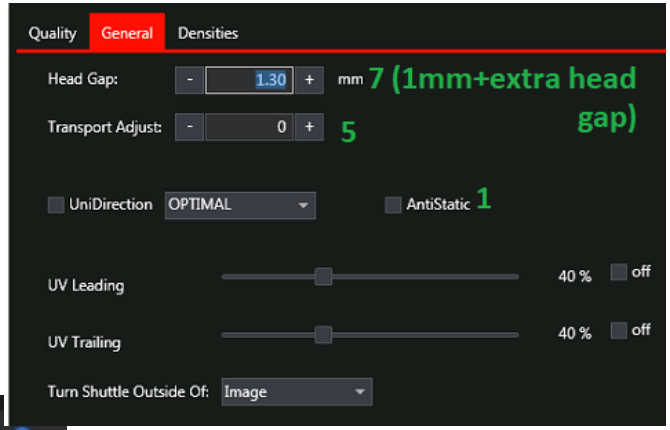
Asanti job setting



Media Parameters can be set at the following levels:

- Tauro task processor configuration (Service Mode only)
- Media Hub>Media Category
- Media Hub>Media
- Asanti job Layout Editor
- Tauro GUI

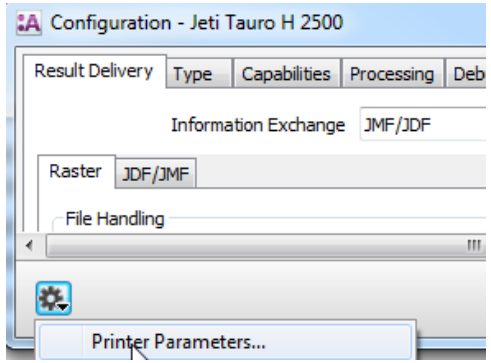
Tauro job setting



2. Media Parameters - Tauro task processor configuration

In the configuration of the Tauro Task processor the default Media Parameters can be set on device level. This setting is available in Service level however these defaults should never be changed. It is better to change defaults on media/media category level

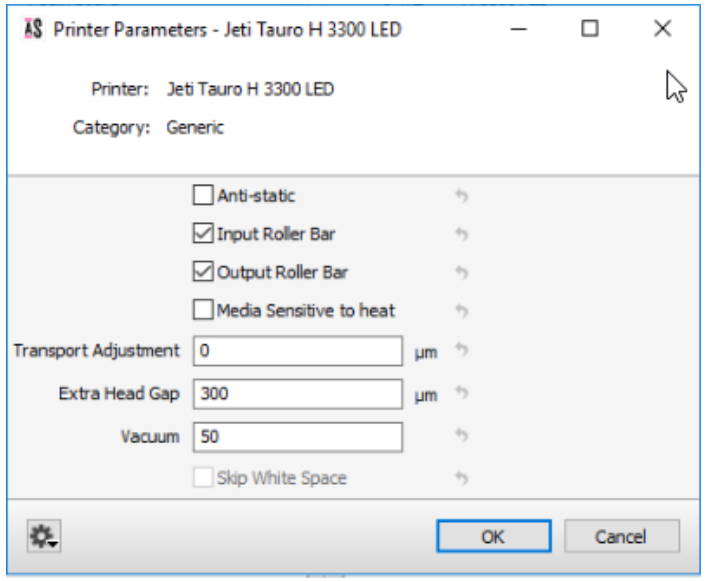
1. System Overview>Jeti Tauro > Configuration settings. (only available in Service Mode)
2. Gog wheel>Printer Parameters
   - When a gray arrow icon is shown, the parameter is set the same as the system defaults.
   - When a black arrow icon is shown, the parameter is set differently from the system defaults.
   - When you click the black arrow, the parameter is set the same as the system defaults.
   - Cogwheel in Printer Parameters window>Restore defaults restores the factory defaults of all Printer Parameters in for the Tauro Task Processor.
3. Click ok to close the Device Printer Parameters.



3. Media Parameters - Media Category

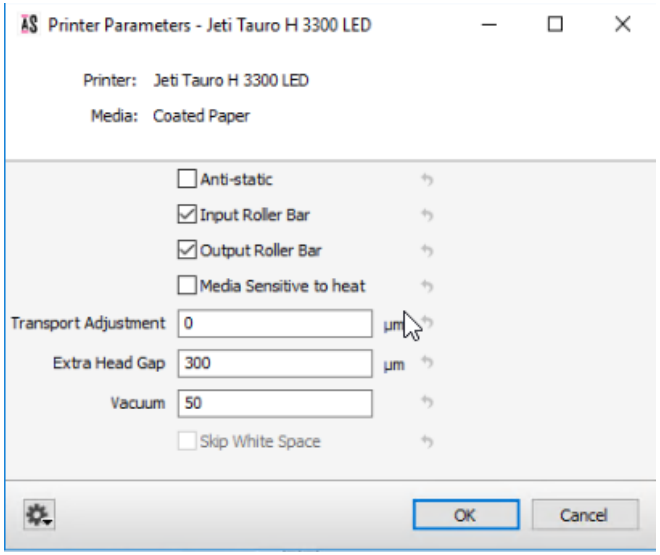
In the Media Hub you can set the default media parameters for a specific Media Category.

1. System Overview>Jeti Tauro >Media Hub.
2. Select Media Category e.g. Generic.
3. On the right side of the Media Hub, in the Printer Parameters section, click the button “Adjust...”
   - When a gray arrow icon is shown, the parameter is set the same as in the device Printer Parameters.
   - When a black arrow icon is shown, the parameter is set differently from the device Printer Parameters.
   - When you click the black arrow, the parameter is set the same as in the device category Printer Parameters.
4. Click ok to close the Media Category Printer Parameters.

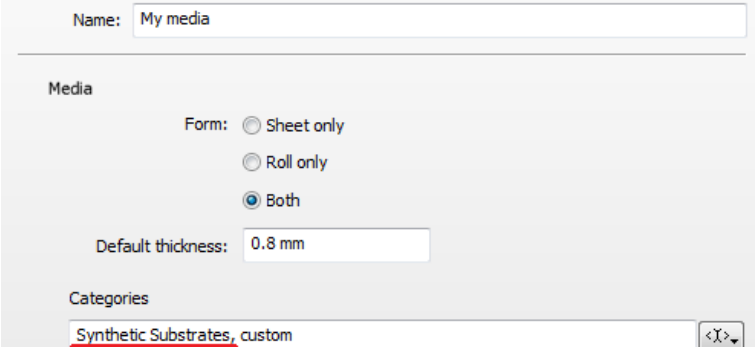


4. Media Parameters - Media

In the Media Hub you can set the default media parameters for a specific Media



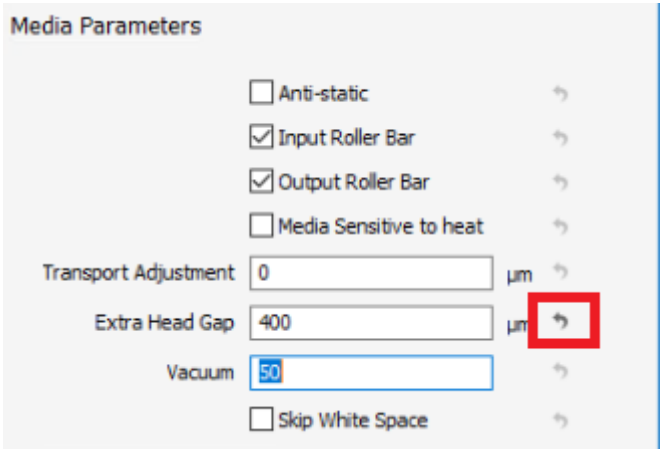
1. Open System Overview>Jeti Tauro >Media Hub
2. Select Media e.g. Generic.
3. On the right side of the Media Hub, in the Printer Parameters section, click the button "Adjust..."
   - When a gray arrow icon is shown, the parameter is set the same as in the Media Category Printer Parameters.
   - When a Media has 2 Media categories filled in, the Media Parameters from the first Media Category are referred to.



   If Media Category field is empty and parameter has a gray arrow: take values from device configuration settings.
   - When a black arrow icon is shown, the parameter is set differently from the Media Category Printer Parameters.
   - When you click the black arrow, the parameter is reset to the same value as in the Media Category Printer Parameters.
4. Click ok to close the Media Printer Parameters.

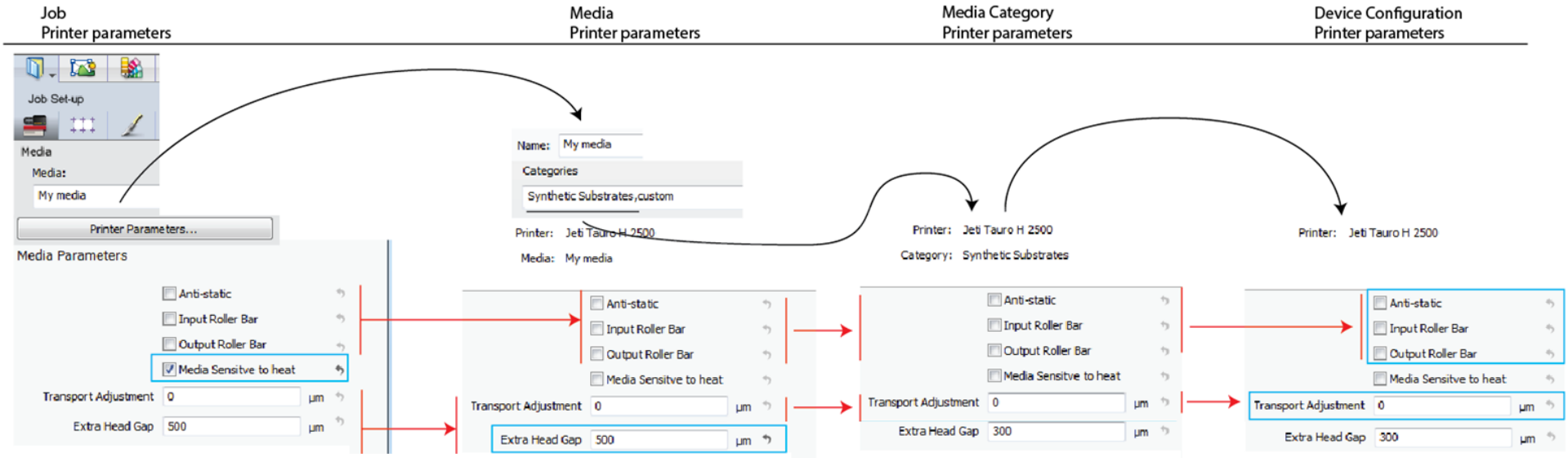
5. Media Parameters - Layout Editor

When creating a job/hot ticket, Media parameters can be viewed/overruled.



1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Open Printer Parameters. The bottom part of the Printer Parameters represents the Media Parameters. When a gray arrow icon is shown next to a parameter, the parameter is set the same as in the Media Printer Parameters.
4. Change e.g. Extra Head Gap to 400 and press ENTER. A black arrow icon is shown next to the parameter as it is set differently from the Printer Parameters of the selected media.
5. Click the black arrow, the parameter is reset to the same value as in the Media Printer Parameters.
6. Click ok to close the Printer Parameters.
7. Submit job > Delete job.

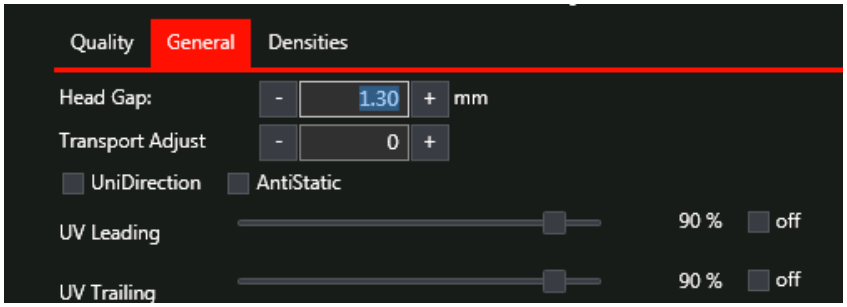
   The following overview shows an example of where the Media Parameters in a job are taken from:



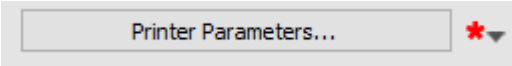
6. Media Parameters - Tauro GUI (job by job)

By default a job in Tauro honors media and print mode parameters from the Asanti job. These parameters can still be overwritten in the Tauro GUI. When change a value in Tauro GUI job, this single printer parameter setting will not be overwritten anymore for this job by Asanti. Also when duplicate such a job with a parameter overwritten on Tauro GUI, the duplicate job will have the same setting overwritten in Tauro GUI.

1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Click Media inspector>Printer Parameters.
4. Set UV Leading to 90%, UV Trailing to 90% and click OK.
5. File>Add Products, open “ASANTI Visual 390x250.pdf” and place the product on the sheet.
6. Submit>Make and send to printer.
7. The Tauro job shows UV Leading = 90%, UV Trailing = 90%.

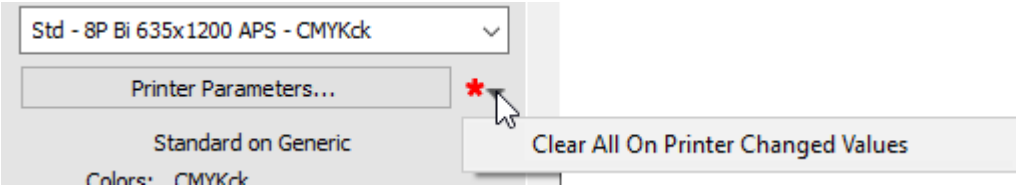


8. In Tauro GUI change UV Leading to 80%. A “*” is shown in Tauro GUI next to the UV Leading setting. This indicates the setting is edited on the Tauro GUI.
9. Click the button to save the changes.
10. In Asanti edit the Layout Job. Next to the printer parameters... button a red star is shown. This indicates that settings are overruled on the Tauro GUI.



11. Click the Printer Parameters button.
12. Set UV Leading to 70%, UV Trailing to 70% and click OK.
13. Submit>Make and send to printer.
14. The Tauro job shows UV Leading = 80%, UV Trailing = 70%. UV Leading is not overwritten by Asanti because it was manually changed in the Tauro GUI.

15. Edit the Asanti job
16. Click the drop down next to the red star>Clear all on printer changed values. On Tauro pc, the following component is required for this functionality: FrontEndManager 2.6.0 or higher.



The star becomes gray again.

17. Submit>Make and send to printer.
    The Tauro job shows UV Leading = 70%, UV Trailing = 70%. The Tauro job settings are reset to the Asanti settings.

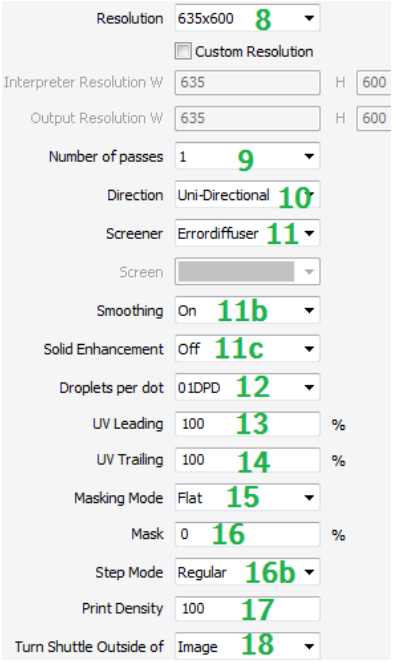
Reset the Tauro GUI settings is also possible if you click the button in the Tauro GUI.

7. Print Mode Parameters

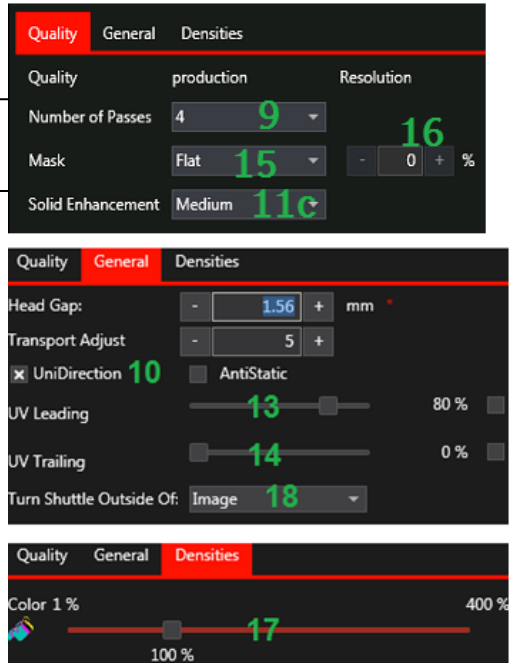
The following Print Mode Parameters can be set in Asanti or Tauro:

	Asanti setting	Asanti default	Tauro setting
8	Resolution		Resolution (not visible in GUI)
9	Number of passes		Number of passes
10	Direction (uni/bi)		Unidirection
11	Screener		Screener (not visible in GUI)
11b	Smoothing (not visible in job printer parameters. Visible in print mode resource and in CPM. Visible in job printer parameters when logged in as Service).	ON for Tauro 3300 + 2500 DL. Off for other printers.	Influences the smoothness of the screen (not visible in GUI)
11c	Solid Enhancement.	OFF	Solid Enhancement (Tauro 2500 V5.0.0/Tauro 3300 GUI)
12	Droplets per dot	01DPD (8pl)	Droplets per dot (not visible in GUI)
13	UV Leading		UV Leading
14	UV Trailing		UV Trailing
15	Masking Mode (valid values are: Flat/Gradient. When job contains color + white/primer, only valid value is Flat.)		Mask
16	Mask (Only for Masking mode Gradient, this value can be different from 0).		Mask value
16b	Step Mode (Regular/Irregular). Only works in combination with Front End Manager 2.6 or higher (See also 25 Verify FrontEndManager version on page 55).		
17	Print Density		Densities
18	Turn Shuttle Outside of		Turn Shuttle Outside of

Asanti Setting

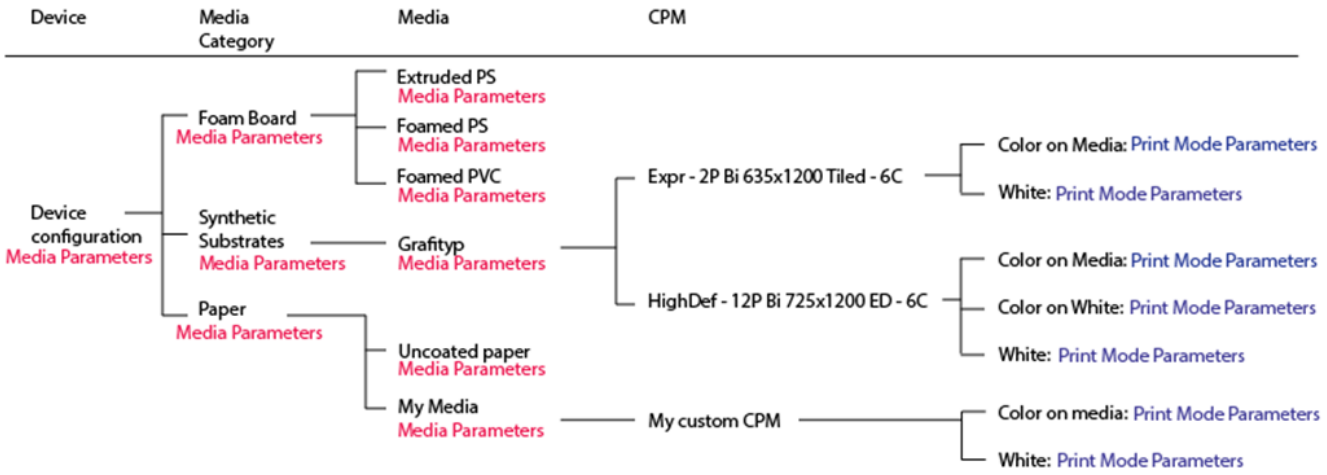


Tauro Setting



Print Mode Parameters can be set at the following levels:

- Calibrated Print Mode (CPM)
- Asanti job Layout Editor
- Tauro GUI

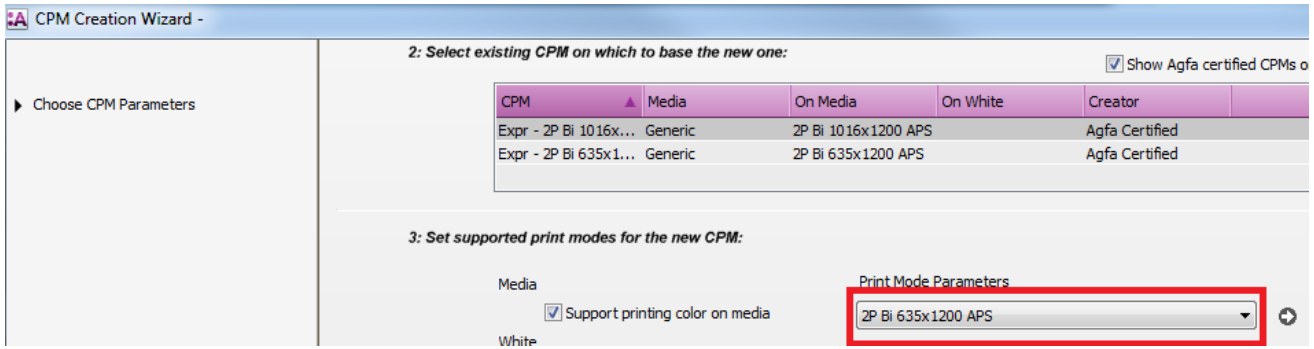


8. Print Mode Parameters – Calibrated Print Mode

A Calibrated Print Mode (CPM) contains per color mode a selected print mode resource. The Print Mode resource contains the Print Mode parameters for this CPM. The settings of the selected Print Mode are imported in the Calibrated Print Mode. Once the CPM is created there is no link anymore to a Print Mode in the Print Modes resource. If a Print Mode resource is adjusted, no Calibrated Print Modes will be affected.

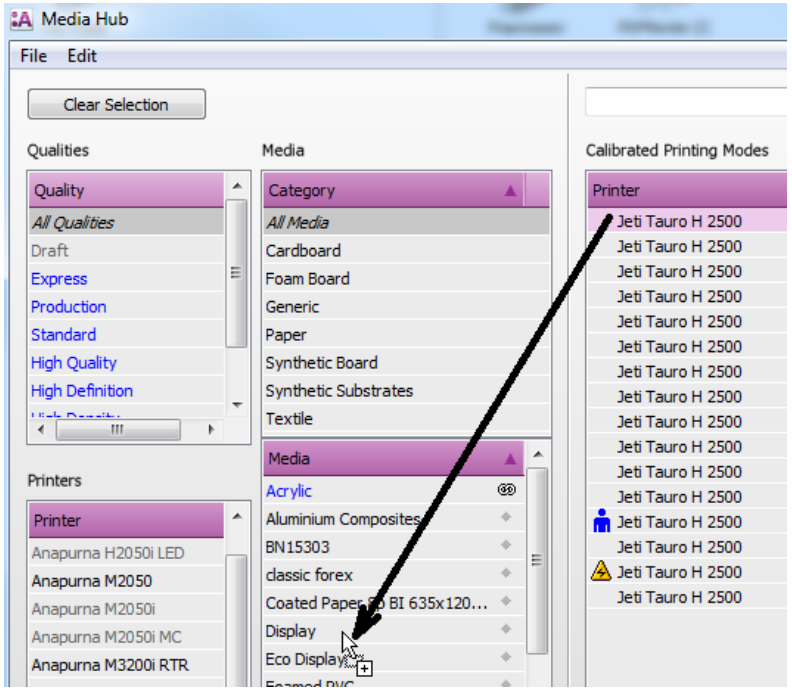
To choose Print Mode settings when create a new CPM:

1. Create a new CPM.
2. Select the required Print Modes.
3. Click the icon next to the print mode to view/Change the printer parameter settings.

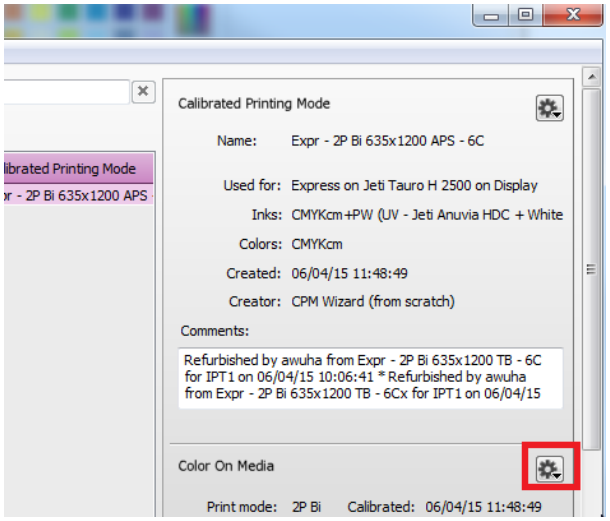


To change the Print Mode settings of an existing CPM:

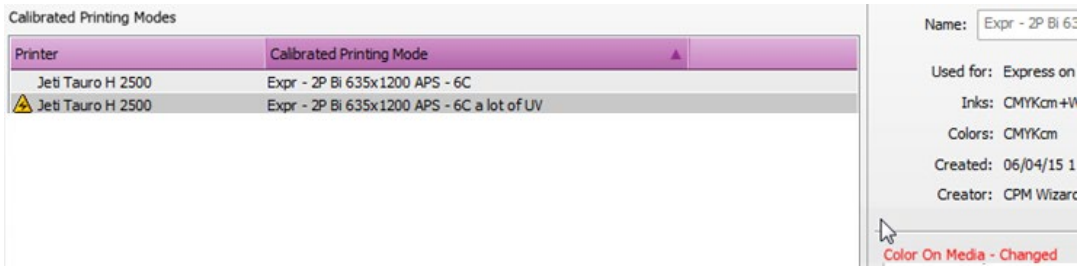
1. System Overview>Jeti Tauro>Media Hub.
2. If you are using a generic CPM, the CPM must be duplicated first to another media. To duplicate a Generic CPM,
   - Drag the CPM to the media.
   - Choose Copy as available



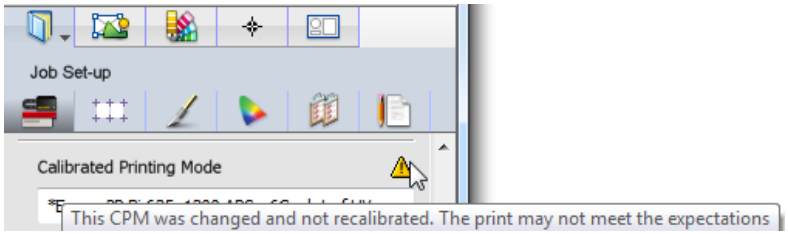
3. Select the Calibrated Print Mode.
4. Click the cogwheel next to the Print Mode (Color on media part).
5. Select edit print mode…
6. Click the icon to change Print Mode parameters.
7. Change the Print Mode Parameters
8. Click 2x ok to save the settings.



9. The new Print Mode Parameters are only set for the current CPM for the current print mode (e.g. for color on media). After making the changes, the color mode e.g. color on Media is displayed in red. The CPM in the Media hub shows a warning icon.

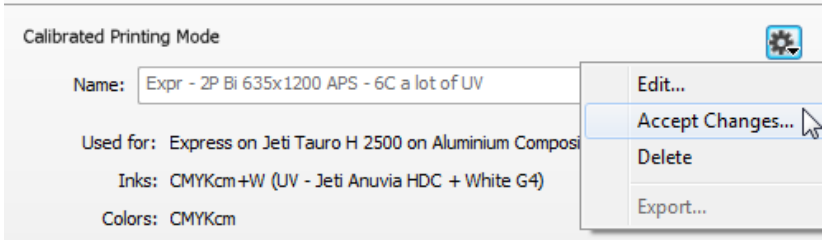


The CPM in the job shows also a warning but the CPM can be used.



When creating a New Wide Format job from template, the Printer Parameter settings will be the same as set when saving the template. To use the new print mode parameters you must (re-)select your CPM in your job.

10. To get rid of the warning you can recalibrate or ignore the warning: in the Media Hub, click the cog wheel at top-right of the Calibrated Printing Mode panel. Click “Accept changes”.

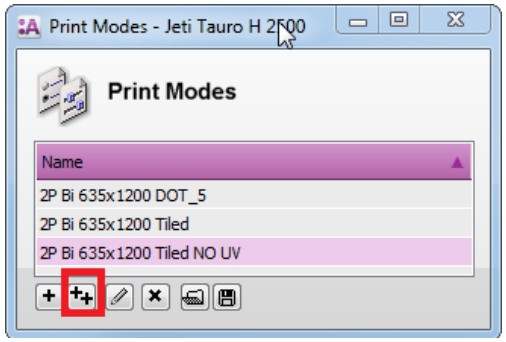


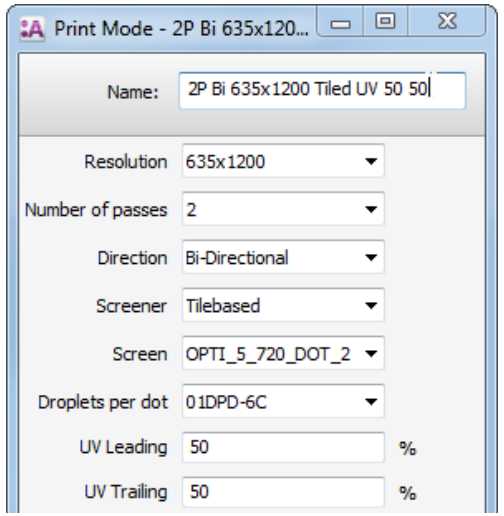
To select Print mode settings from different Print Mode resource:

1. Open Media Hub
2. Click the to allow making changes.
3. Select a Calibrated Printing Mode (not a CPM for Generic Media).
4. Click the cog wheel next to the print mode. Click “Edit Print Mode”, the used “Print Mode” resource is shown. You can switch to another Print Mode.
5. Click OK.

To edit Print Mode resource settings

1. Open System Overview>Jeti Tauro H 2500>Print Modes resource.
2. Duplicate a Print Mode.
3. Edit the copy
4. Enter a decent name, change the settings
5. Click OK
6. In the Edit Print Mode window or when creating a new CPM, select the new Print Mode.

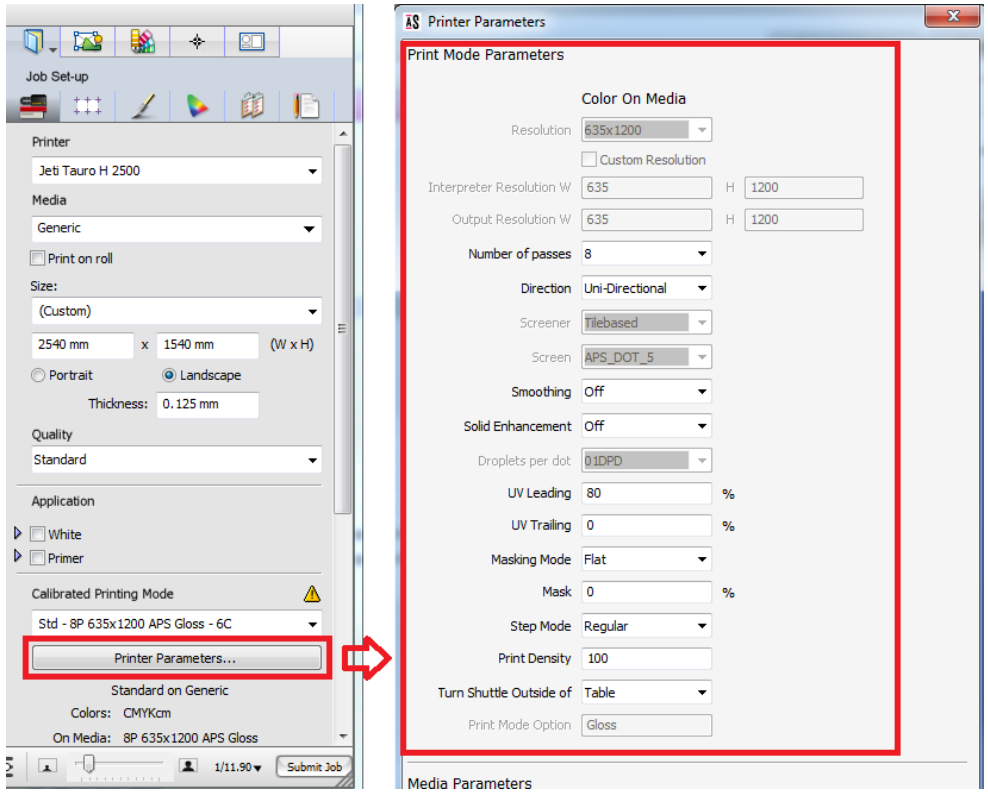




9. Print Mode Parameters – Layout Editor

By default, the Print Mode Parameters are used from the CPM. In Layout Editor these individual settings can still be changed.

1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Open Printer Parameters. The top part of the Printer Parameters represents the Print Mode Parameters.
4. Click ok to close the Printer Parameters.
5. Submit job > Delete job.



10. Print Mode Parameters – Tauro GUI (Job by job)

By default, a job in Tauro honors media and print mode parameters from the Asanti job. These parameters can still be overwritten in the Tauro GUI. When change a value in Tauro GUI job, this single printer parameter setting will never be overwritten anymore for this job by Asanti. See also

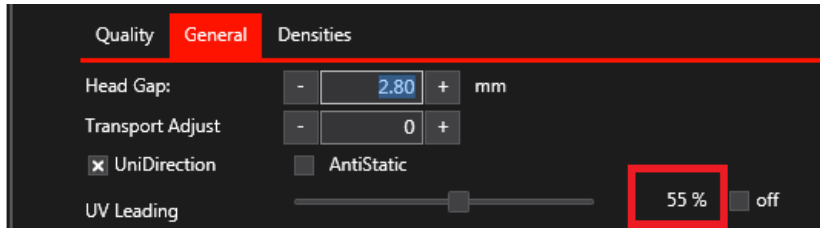
Media Parameters - Tauro GUI (job by job) on page 9.

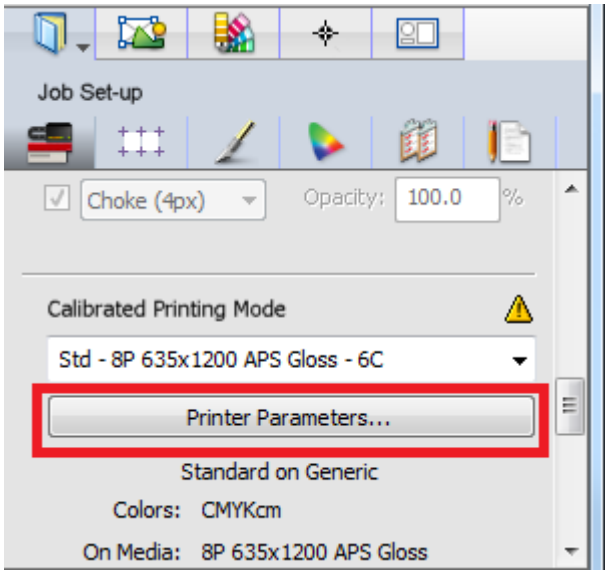
11. Printer Parameters – lookup on Job level

Printer Parameters at job level are reset (to the values from CPM/Media) if:

- Another CPM/Media is selected
- You reselect the CPM/Media in the drop-down list
- You enable/disable white checkbox in Media inspector

1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Select e.g. Generic Media
4. Open job Printer Parameters: Media inspector> click button “Printer Parameters...”
5. Enter e.g. UV Leading 55% and click ok.
6. Open Printer Parameters again. UV Leading is still set to 55%.
7. Click cancel.
8. Re-select the Calibrated Printing Mode.
9. Open Printer Parameters again. UV Leading is reset to e.g. 80%.
10. Change UV leading again to 55% and click ok.
11. File>Add Products, open “ASANTI Visual 390x250.pdf” and place the product on the sheet.
12. Submit Job > Make and send to printer.
13. Select the job in Tauro GUI.
14. Click the General tab. UV Leading is set to 55.





12. Printer Parameters - Save settings in a job template

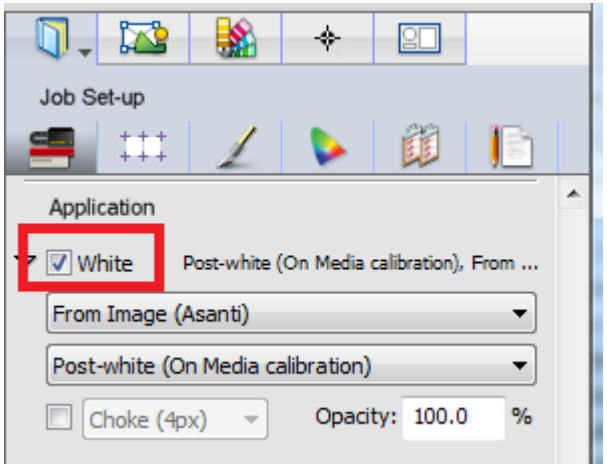
1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Select Media Generic
4. Select a Calibrated Print Mode (CPM)
5. Open the Printer Parameters. Print Mode and Media parameters are used from the selected Media and CPM.
6. Set e.g. UV Leading to 54% and click ok.
7. File>Save as template.
8. Create a new category e.g. Tauro.
9. Enter the name “UV Leading 54”.
10. Click Save.
11. Open the Printer Parameters
12. Set e.g. UV Leading to 58% and click ok.
13. File>Save as template.
14. Select Category Tauro.
15. Enter the name “UV Leading 58”.
16. Click Save.
17. Submit>Delete job.
18. File>New From templates.
19. Open “UV Leading 54”.
20. Open the Printer Parameters. UV Leading is set to 54%. Click cancel.
21. Submit>Delete job.
22. File>New From templates.
23. Open “UV Leading 58”.
24. Open the Printer Parameters. UV Leading is set to 58% Click cancel.
25. Submit>Delete job

Printer Parameters are not saved in the Job Set-up pre-sets.

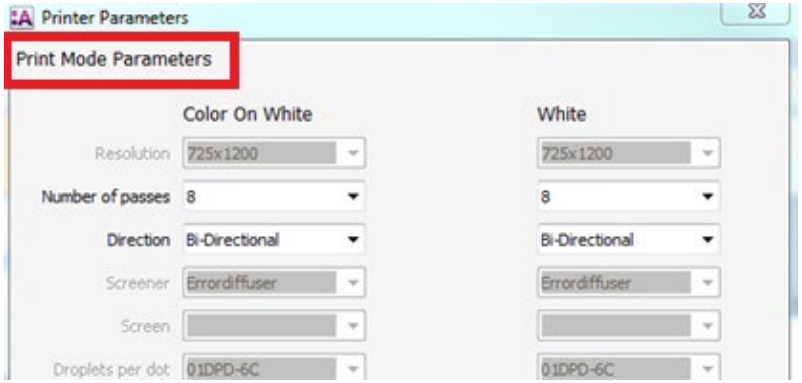
13. Printer parameters - different settings for white/primer

If White/Primer is enabled in the job, the Printer Parameters window allows you to enter different Print Mode Parameters for each combination.

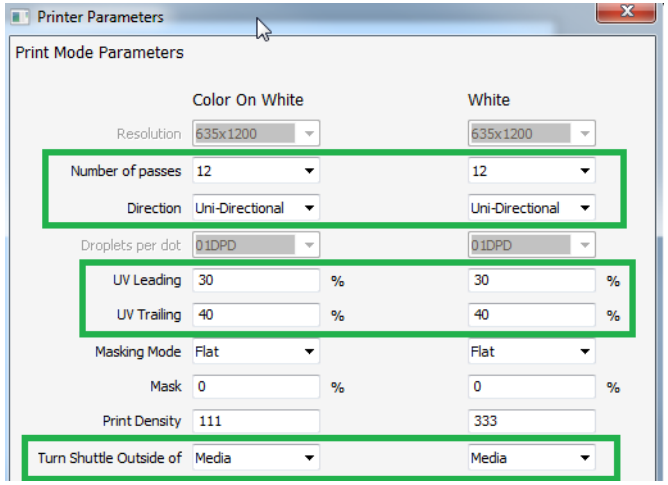
1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Check White.

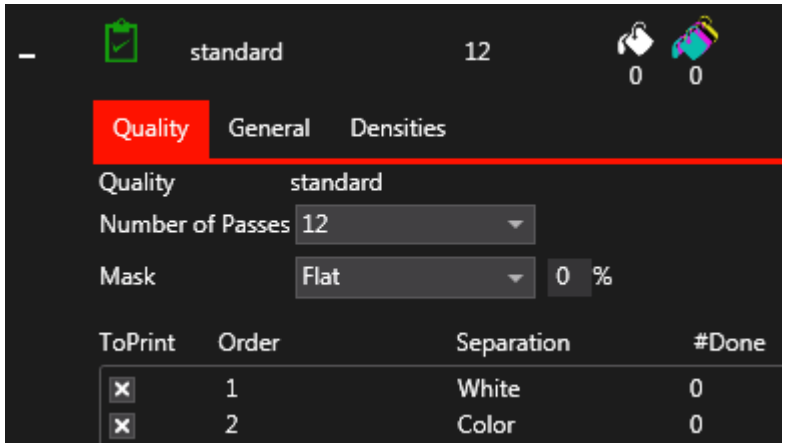


4. Select a CPM that supports printing white
5. Open Printer Parameters. Different Print Mode Parameters can be set for Color and for white.
6. Close Printer Parameters.
7. Submit job > Delete job.



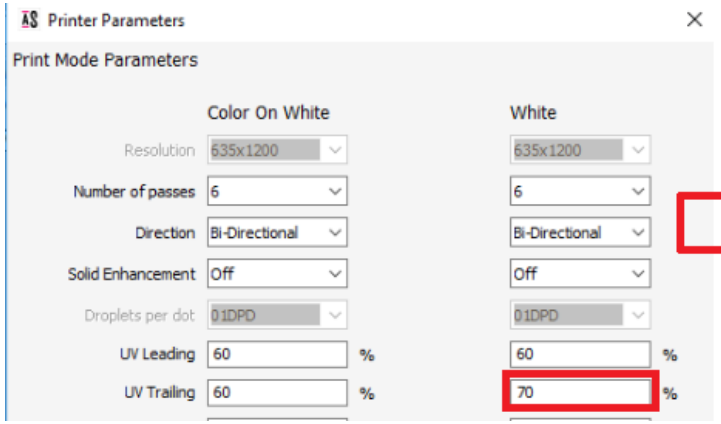
- When Print Mode settings: Number of passes, Direction, UV Leading, UV Trailing, Turn shuttle outside off is set equal for color and for white/Primer, 1 print run is created in Tauro GUI with color and with white. Color and white can be printed in this case in 1 print run.

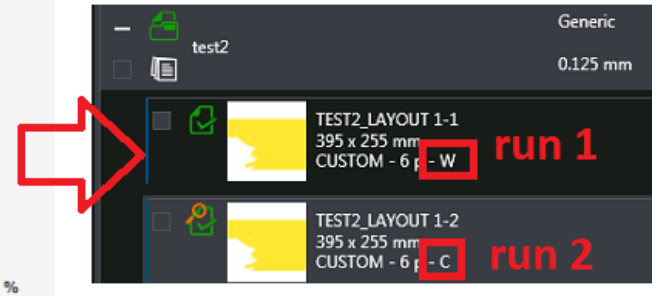




When printing color + white, masking mode must be set to Flat and Mask must be set to 0.

- When one of the Print Mode settings: Number of passes, Direction, UV Leading, UV Trailing, Turn shuttle outside off is set different for color and for white/Primer, 2 print runs are created in Tauro GUI. One for color and one for white. Color and white cannot be printed in this case in 1 print run.

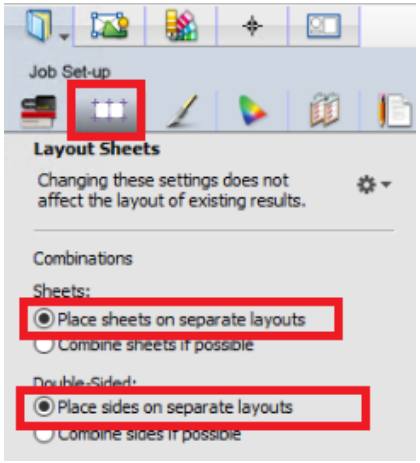




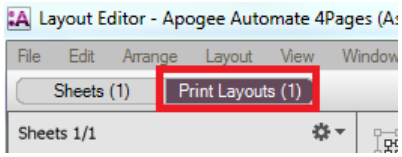
6. Align a Sheet on the printer Layout

By default, each Sheet is aligned at 0.0mm on the print bed (= printer Layout). If this behavior must be changed for a job, you must go to the Printer Layouts window.

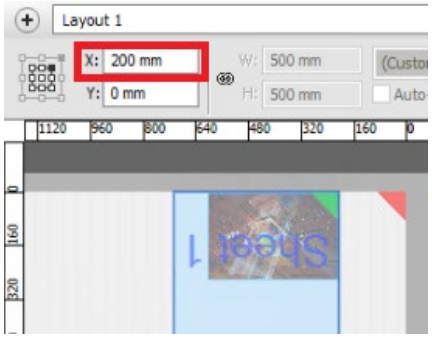
1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro.
3. Set Sheet size e.g. 500x500mm.
4. Layout Sheets inspector>enable "Place sheets on separate layouts" and "Place sides on separate layouts".



5. File>Add Products, open "ASANTI Visual 390x250.pdf" and place the product on the sheet.

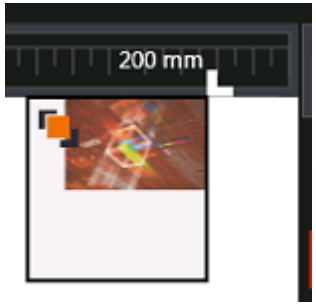


6. Switch to the Print Layouts view.
7. Select the Sheet on the Print Layout. It is located at 0.0 mm
8. In the x field, enter a new value (e.g. 200mm), click tab. The Sheet gets shifted to x: 200mm.



For Tauro, the y coordinate of the sheet in the Print layouts view must be 0 mm. For Tauro it is only allowed to move the sheet on the print layout in the x direction.

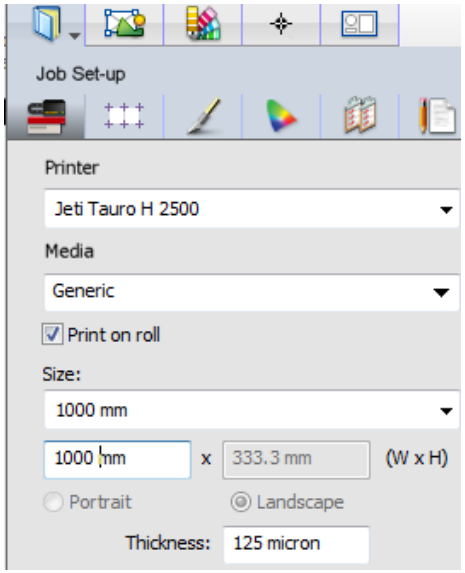
9. Submit job, make and send to printer. The Tauro GUI job also indicates the Sheet is positioned at 200mm.



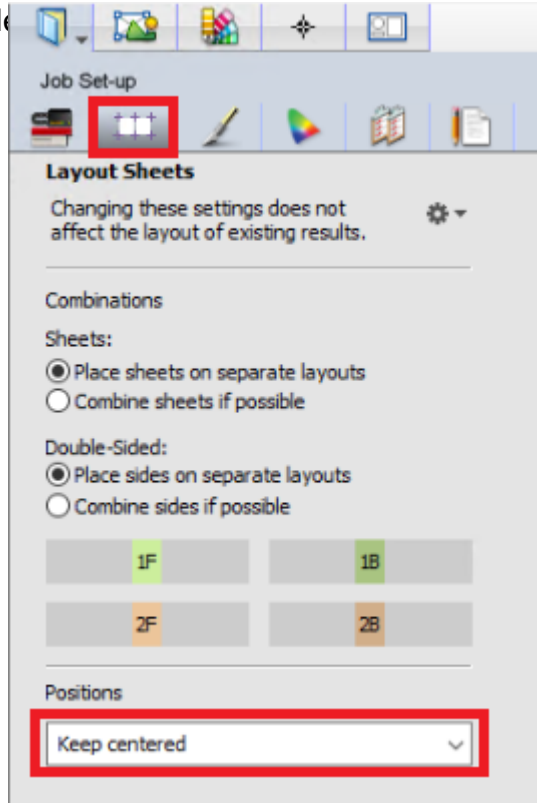
7. Roll Printing

1. Tauro 4: Roll to Roll

Tauro 3 and 4 requires for roll media that Asanti

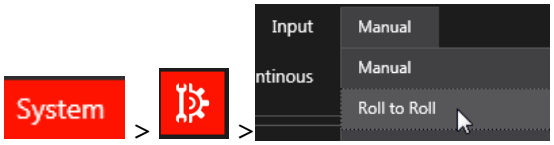


de

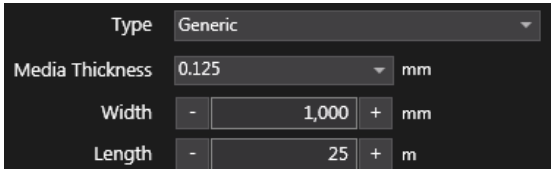


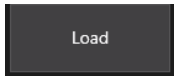
1. Create a New Wide Format job.
2. Select Printer: Jeti Tauro H 2500.
3. Enable Print on roll.
4. Size e.g. 1000mm.
5. Go to the Layout Sheets inspector.
6. Select “Keep sheets centered”. This will center the Roll on the Tauro.
7. File>Save as template.
8. Create a new category with name e.g. Tauro.
9. Save the ticket template with name e.g. Tauro Roll 1000mm.
10. File>Add Products, open “ASANTI Visual 390x250.pdf”.
11. Drag the product to the sheet. If you want the product to be centered on the sheet, press **c** while dragging the sheet.
12. Submit Job>Make and send to printer.
13. Open the Tauro GUI. If in Tauro 3.0 GUI this roll media is not loaded, this new job will not be visible in Tauro GUI. To be able to load/unload media, the Tauro must be initialized. If it is not initialized click:

Unload sheet media:

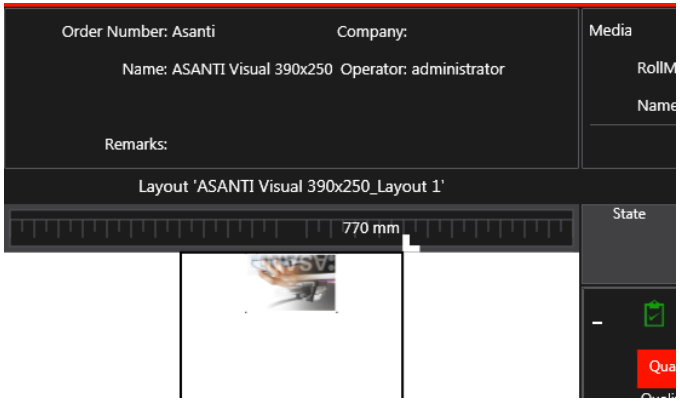
Load the roll media: 

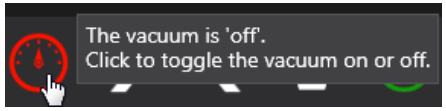
Select the media and thickness, enter the width 1000 and the length of the roll



Click 

14. Select the job in Tauro job list. The roll is centered on the Tauro.
15. To print the job, enable next to the Tauro job.



16. Click the button (bottom of Tauro jobs list), this adds the job to the Print Queue.
17. Enable the vacuum. 

18. Click

> .
19. Enable Tension for Input and output side.

20. Click

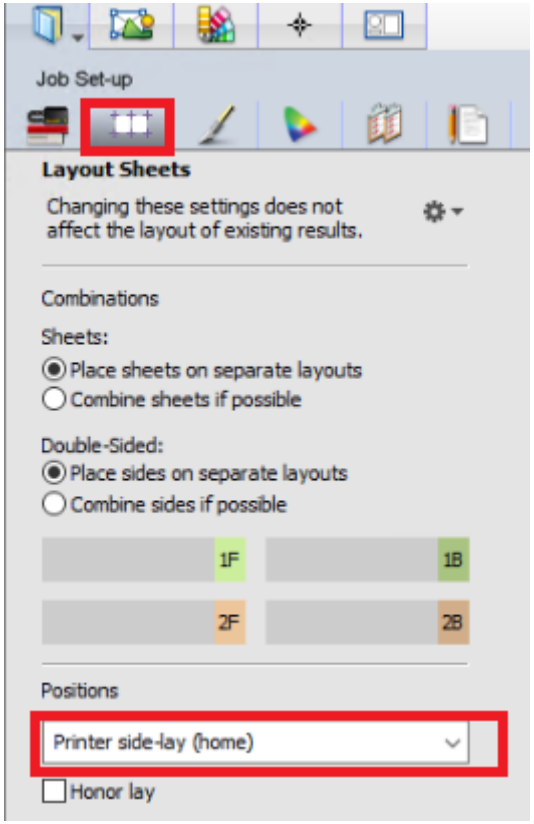
>

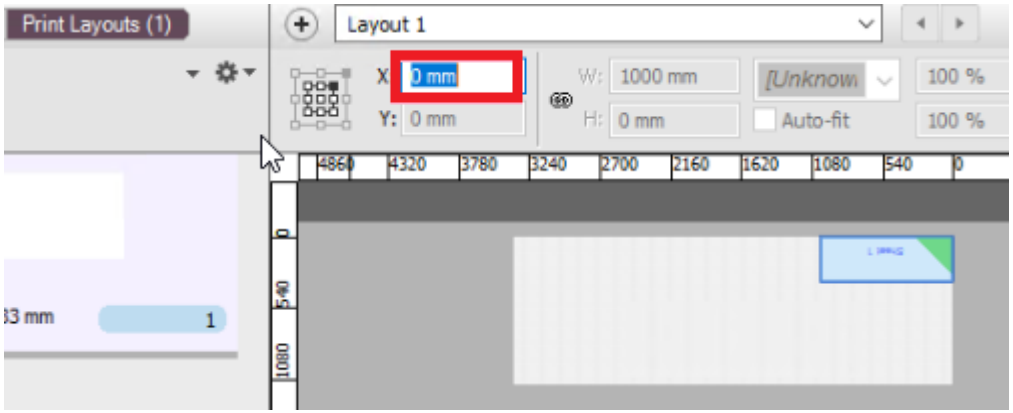
to go to the Print queue.
21. Click to start the queue.
22. To create another job for roll media in Asanti client, choose file>New from templates, open the ticket template you previously saved. Place a product to the sheet, submit>Make and send to printer.

2. Tauro 2500 v5/6 or Tauro 3300: MasterRollToRoll

For MasterRollToRoll setup Layout Sheets inspector to position to Printer side-lay (home).

Make sure in the print layouts view that the sheet is positioned at x 0 mm.

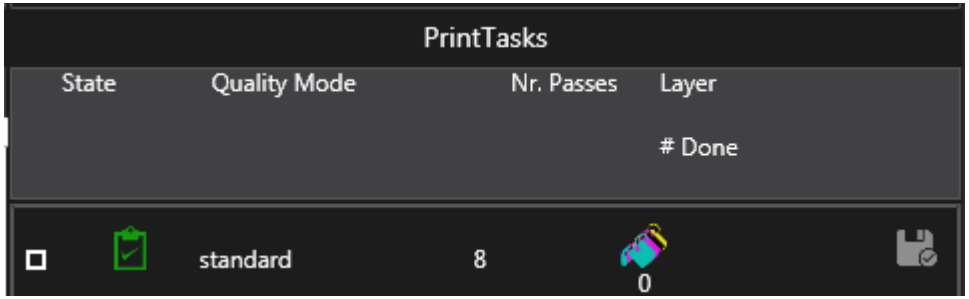




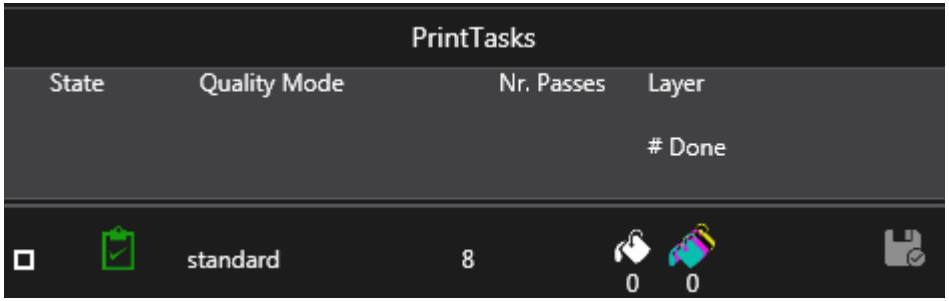
8. Combine Layers in 1 Print task

1. Multiple layers from 1 Asanti job

When White/Primer is not enabled in the Asanti Job Set-up inspector, a job is created in Tauro with only a print task for color.

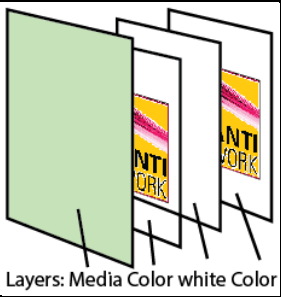
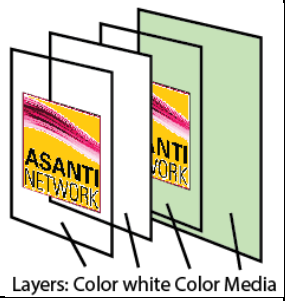


When White/Primer is enabled in the Asanti Job Set-up inspector, a job is created in Tauro with 1 Print task that includes multiple layers: e.g. color + white. If multiple layers are included in 1 Print task, they will be printed concurrent.



Some possible combinations of layers in 1 Print task:

Asanti Layers	Layers included in 1 Print task on Tauro	Application
Color only		
Color + Primer		Color is printed on top of primer
Color + Pre-white		Color is printed on top of white
Color + Primer + Pre-white		Order of layers = Primer + White + Color
Color + Post-White		White is printed on top of color

Color + Primer + Post-White		Order of layers = Primer + Color + White
Color + Sandwich White (On media calibration) 		Day/night application: Printed on the Back of transparent media, image to be viewed through the media. The image is mirrored in Asanti.  Layers: Media Color white Color
Color + Primer + Sandwich White (Calibration on media)		Order of layers = Primer + Color1 + White + Color1
Color + Sandwich White (On white Calibration) 		Day/night application: Printed on the Front of transparent media. The image is not mirrored in Asanti.  Layers: Color white Color Media
Color + Primer + Sandwich White (Calibration on white)		Order of layers = Primer + Color1 + White + Color1

More info about sandwich printing refer to tutorial on Asanti Network: Creating Sandwich White jobs for Jeti Tauro.

2. Merge 2 Asanti jobs on Tauro

Other combinations of layers in 1 print task (e.g. C1 – Pre-White – C2) are possible if you create 2 jobs in Asanti. If you want these jobs to be recombined in Tauro, these jobs must have a naming convention: my job name#LayerName; The text before the # sign must be the same for all Asanti jobs that must be recombined in 1 Print Task on Tauro. The text after the # can be different and is only used in the Asanti job name to differentiate the jobs. The job name must end on a "**;**". The first submitted job will represent the first layer(s). The to-be-merged jobs need to use identical:

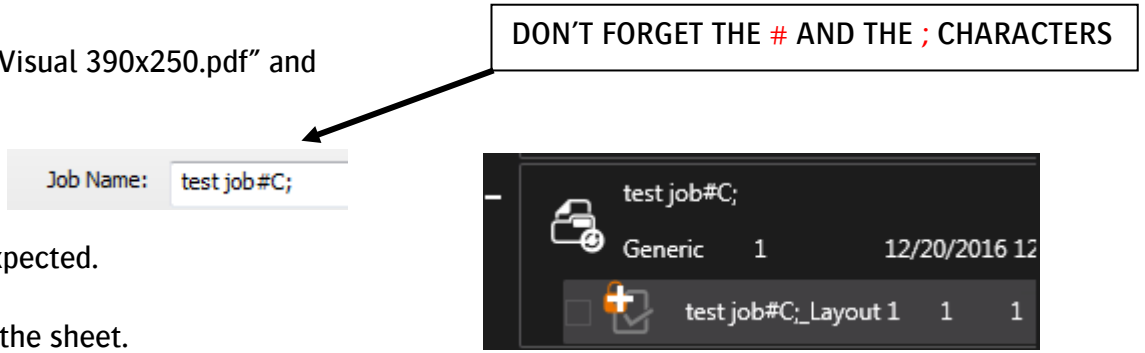
- Sheet size and position
- Product size and position
- CPM's
- Printer Parameters

3. Example C1-W-C2

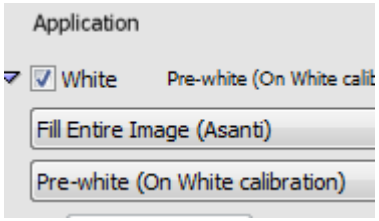
"Sandwich job with mirrored image on the back":

The image is viewed from both sides and will be printed on the back side of the transparent media.

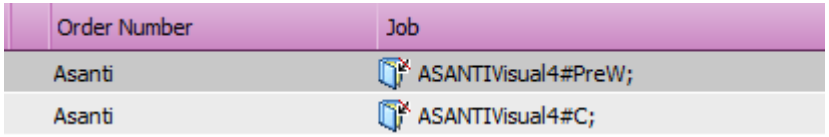
1. Create a New Wide Format job.
2. Select printer Tauro.
3. Select a CPM which is also calibrated for color on white
   e.g. Std – 8P Bi 635x1200 APS – 6C.
4. Turn off White.
5. Set sheet size e.g. 600x600mm.
6. File>Add Products, open "ASANTI Visual 390x250.pdf" and place the product on the sheet.
7. Submit job.
8. Enter the jobname test job#C;
9. Click Submit. The job on Tauro is locked because a second part is expected.
10. Duplicate the Asanti job.
11. Mirror the product horizontally on the sheet.

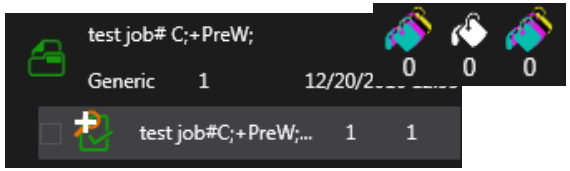


12. Enable White>Fill entire image, Pre-White.



13. Submit job.
14. Enter the job name test job#PreW;
15. Submit job.
    Asanti shows 2 jobs
    Tauro GUI contains 1 job
    with 3 layers.

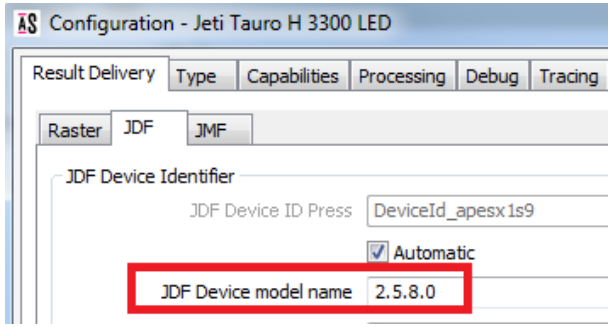




Production Dashboard will show 2 jobs: "jobname test job#C;" and "jobname test job#C;.". When the job is printed on Tauro, actual values (ink, media usage, time) will be reported to the first job in Production Dashboard ("jobname test job#C;").

4. Merge more than 2 Asanti jobs on Tauro

It is also possible to combine more than 2 jobs on Tauro. This requires FrontEndManager version 2.5.7 or higher (component that runs on the Tauro pc. This component is installed together with the Tauro software.). The version of FrontEndManager can be seen in Asanti client>System Overview>Tauro>Configuration>Result Delivery tab>JDF tab>JDF Device model name (Asanti client in Service mode).



To recombine more than Asanti 2 jobs on Tauro the following naming convention must be used:
my job name(<nr of Asanti jobs>)#LayerName(<merge order>);

- The text before the # sign must be the same for all Asanti jobs that must be recombined in 1 Print Task on Tauro.
- The number between the first "()" must be set to the number of Asanti jobs that are merged into 1 Tauro job. E.g. when set to 3, Tauro will expect that 3 Asanti jobs will be merged in 1 print task in a Tauro job.
- The text after the # is different and is used in the Asanti job name to differentiate the jobs.
- The Asanti job name must end on a **";"**.
- The number between the last "()" must be set to a number. The Asanti job that must be merged first on Tauro must get number 1, the second 2…

The to-be-merged jobs need to use identical: Sheet size and position, Product size and position, CPM's, Printer Parameters

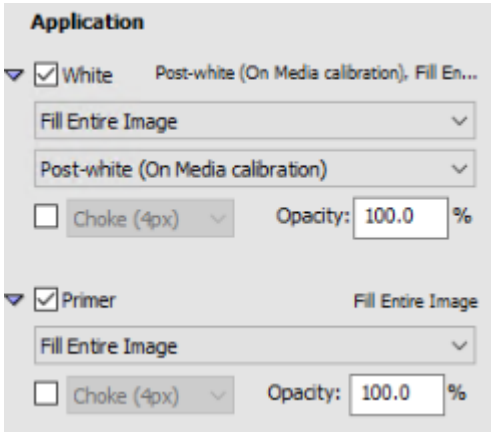
5. Example P-C1-W-C2(block-out)-W-C3

"Primer-C1-W-C2(block-out)-W-C3" (printed in 1 pass on transparent material):

Front side: Back side:

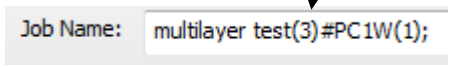
1. Create a New Wide Format job.
2. Select printer Tauro.
3. Select a CPM that has support for printing color on white e.g. Std – 8P Bi 635x1200 APS - CMYKck.
4. Enable White, Fill Entire Image, Post White.

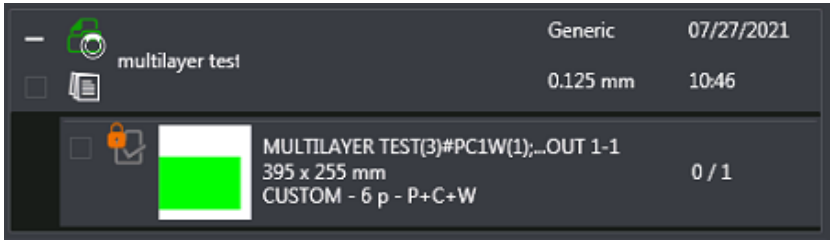
5. Enable Primer, Fill Entire Image.

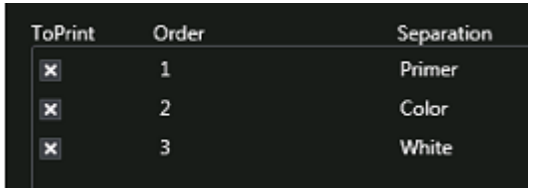


6. Set sheet size e.g. 500x400mm.
7. Select Cutter "None", Bleed 0 mm
8. File>Add Products, open "ASANTI Visual 390x250.pdf" and place the product on the Sheet.
9. Center the product on the sheet.
10. Mirror the product.
11. Submit job.
12. Enter the job name multilayer test(3)#PC1W(1);
13. Choose "make and send to printer".
14. Click Submit. The job on Tauro is locked because a second and a third part are expected.

DON'T FORGET THE (3) FOR THE TOTAL OF ASANTI JOBS, THE #, THE (1) BECAUSE IT IS THE FIRST JOB FOR THE MERGE AND THE ENDING ; CHARACTER.

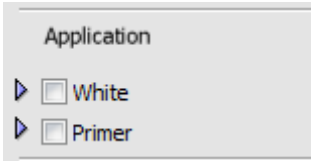




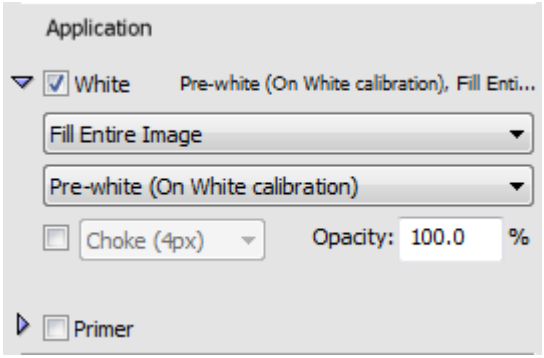


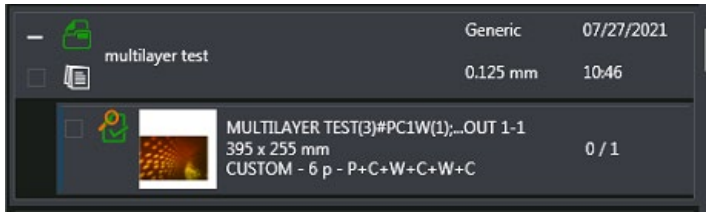
15. Duplicate the Asanti job.
16. Context click the product in the frame > Clear Frame.
17. File>Add Products, open black.jpg.

18. Drag black.jpg to the empty frame
19. Uncheck White, uncheck Primer
20. Submit job
21. Change the job name to multilayer test(3)#C2(2);
22. Choose “make and send to printer”.
23. Click Submit. The job on Tauro doesn’t get updated yet because a third part is still expected.



24. Duplicate the last Asanti job.
25. Context click the product in the frame > Clear Frame.
26. File>Add Products, open “Disco_ball_600x400.pdf” and drag it to the empty frame.
27. Mirror the product.
28. Check White, Fill entire image, Pre-white (On White calibration)
29. Submit job
30. Change the job name to multilayer test(3)#WC3(3);
31. Choose “make and send to printer”.
32. Click Submit. The job on Tauro gets updated. It has 6 Print layers.



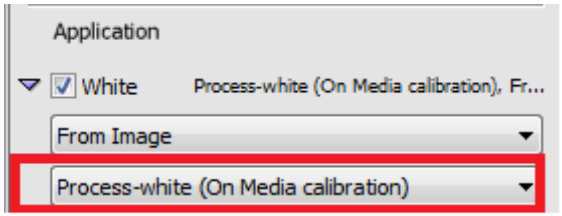


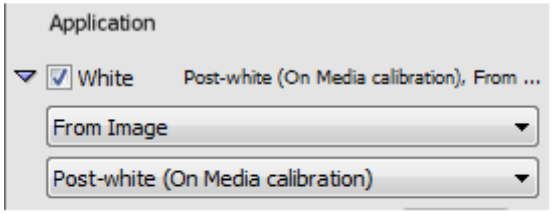
Production Dashboard will show 3 jobs. When the job is printed on Tauro, actual values (ink, media usage, time) will be reported to the first job in Production Dashboard (“multilayer test(3)#PC1W(1);”).

9. Process-white

When “Process-white” is selected as white mode in Asanti, Tauro will print white in the same pass as the process colors. This means Tauro will print jobs with white at the same speed as it does for jobs without white. This mode should only be used for white only jobs or when CMYK and white don’t overlap in the input file. If the source of white is set to “From image”, the mode can be set to “Process-white”. Asanti uses the print mode for Color on Media when printing Process-white. The Process-white mode can only be selected for Tauro, not for other printers.

If “Process-White” mode is used in Asanti, the White layer on Tauro will get a checkmark in the “Process” column.



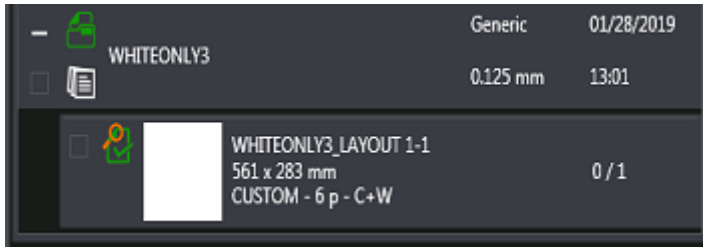


Asanti doesn’t check if white and process colors overlap or not. The operator must manually make a choice between “Process-white” or another white mode. When white color overlaps areas with CMYK content, the operator should not select “Process-white”.

Required software on Tauro: Tauro 2500 GUI 5.0 or higher + FEndMgr V 2.5.7.0/Tauro 3300 + FEndMgr V 2.5.7.0 or higher.

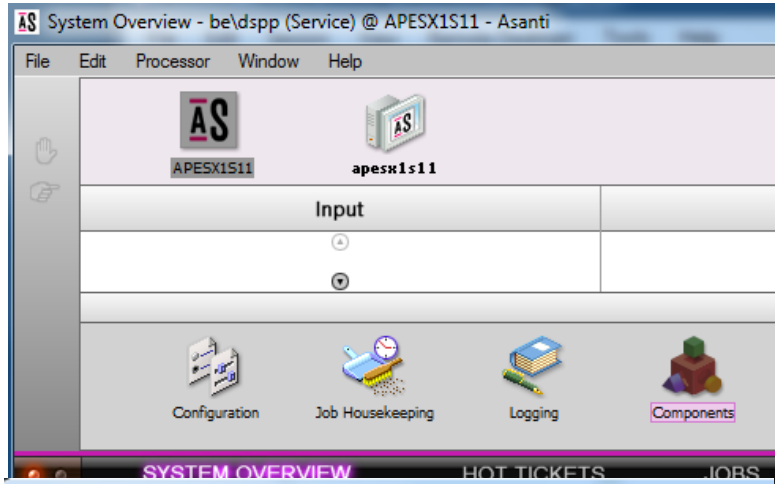
10. Setup Preview color for white/Primer

When Print a job to Tauro that contains white/primer, the thumbnail on Tauro doesn't display the white/primer content. When the job contains only white/primer content, the thumbnail on Tauro will show no content at all.

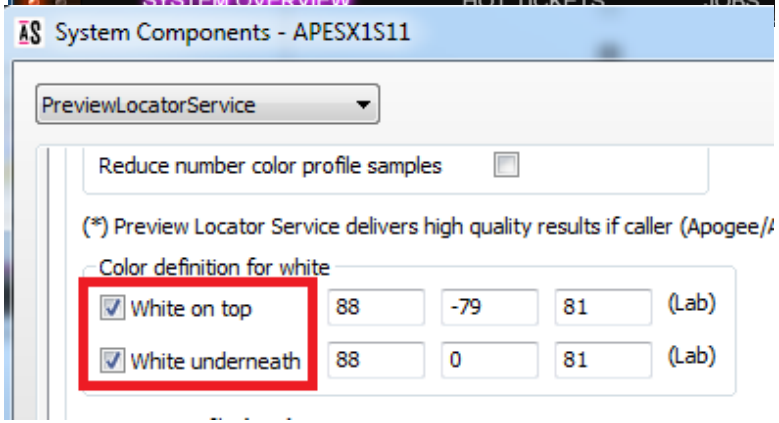


The Tauro Thumbnail color for white and primer can be setup in Asanti.

1. Open the Asanti client with Service access.
2. Go to the System Overview.
3. Select the Asanti System icon and open the Components resource.



4. From the drop down select "Preview Locator Service".

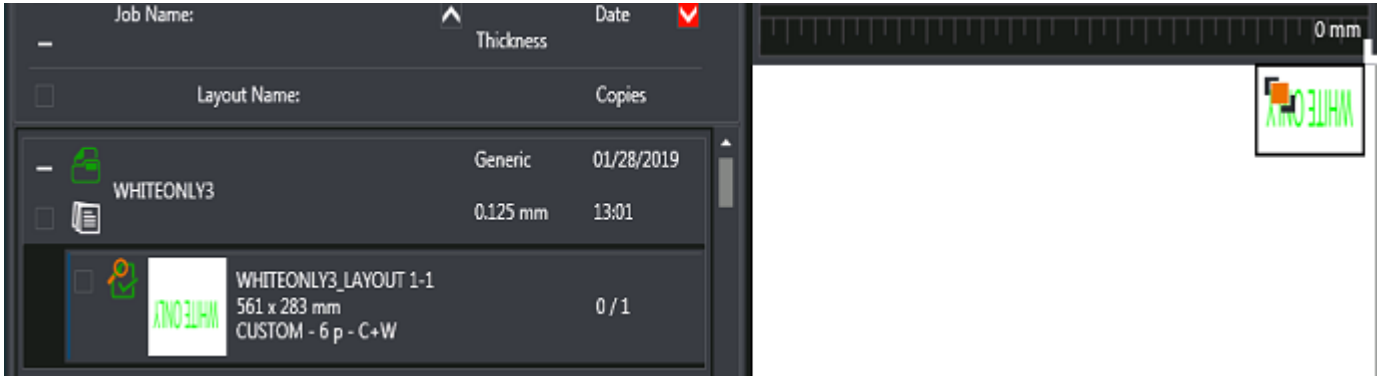


5. Enable Color definition for white: White on top (Post-white) and White underneath (Pre-white). The Lab values can still be adjusted if needed. Some examples of Lab values to use:

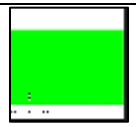
L88 a-79 b81	
L88 a0 b81	
L100 a0 b40	
L100 a-20 b-20	
L100 a50 b40	

6. Click Save.
7. Close the System Components resource.

8. Reprocess the Asanti job. The white content becomes visible in the thumbnail on Tauro.



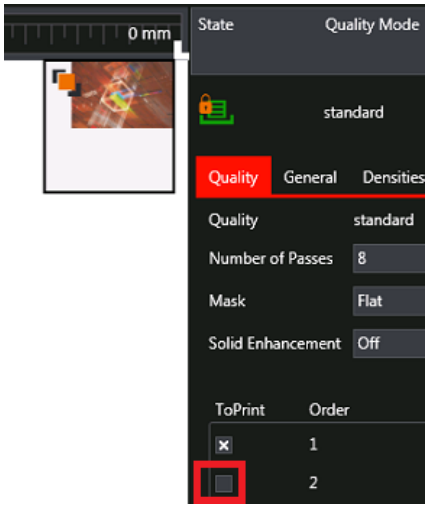
Examples of thumbnails on tauro

PreviewLocatorService settings	Cmyk image with Fill entire image, pre-white	Cmyk image with Fill entire image, post-white	White only image, post-white
Color definition for white ☑ White on top ☑ White underneath			
Color definition for white ☐ White on top ☐ White underneath			

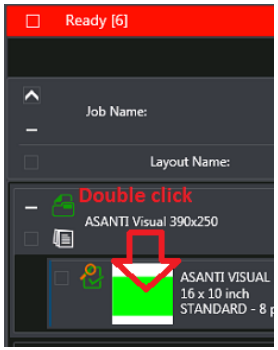
11. Preview jobs on Tauro

To preview a job on Tauro you must double click the thumbnail in the Tauro GUI Ready list. Different print layers can be shown/hidden in preview (FrontEndManager 2.9.0 required (See also 25 Verify FrontEndManager version on page 55)):

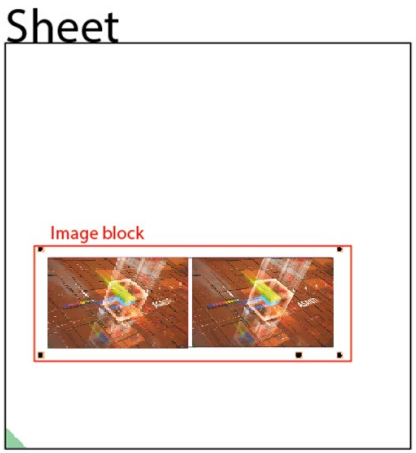
1. Create a New Wide Format job.
2. Select printer Tauro.
3. Select a CPM that has support for printing color on white e.g. Std – 8P Bi 635x1200 APS - CMYKck.
4. Enable White, Fill Entire Image, Post White.
5. File>Add Products, open “ASANTI Visual 390x250.pdf” and place the product on the Sheet.
6. Submit>Make and Send to printer
7. On Tauro, double click the thumbnail of the job in the Ready list. All print layers are shown
8. Close the preview window
9. Uncheck the white layer. The thumbnail on the sheet only shows now the color print layer.



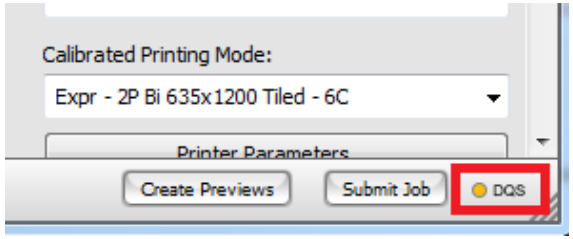
10. Double click the thumbnail of the job in the Ready list. Preview window only shows the color layer.



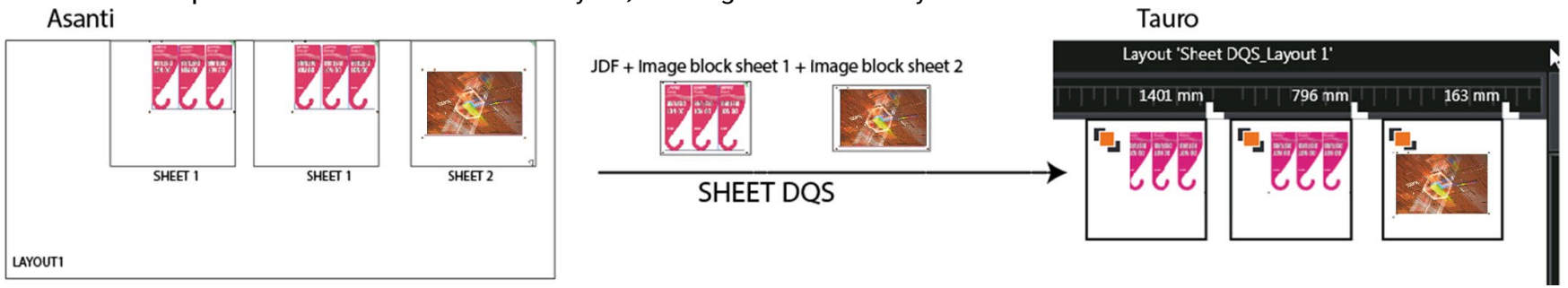
12. Sheet DQS



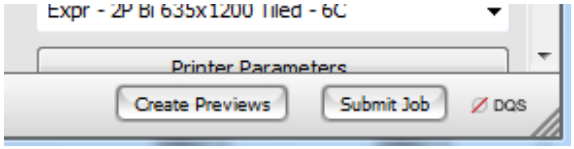
- By default Sheet DQS is enabled for Asanti jobs towards a Tauro task processor.
- Sheet DQS means Asanti will render for each Sheet only the image block. The image block is the area on the Sheet where you have images and marks.
- Asanti will send a JDF to Tauro indicating the position of the image block on the Sheet.
- When Sheet DQS is enabled for a job, an orange icon is shown with the text “DQS” at the right-bottom of the Layout Editor.



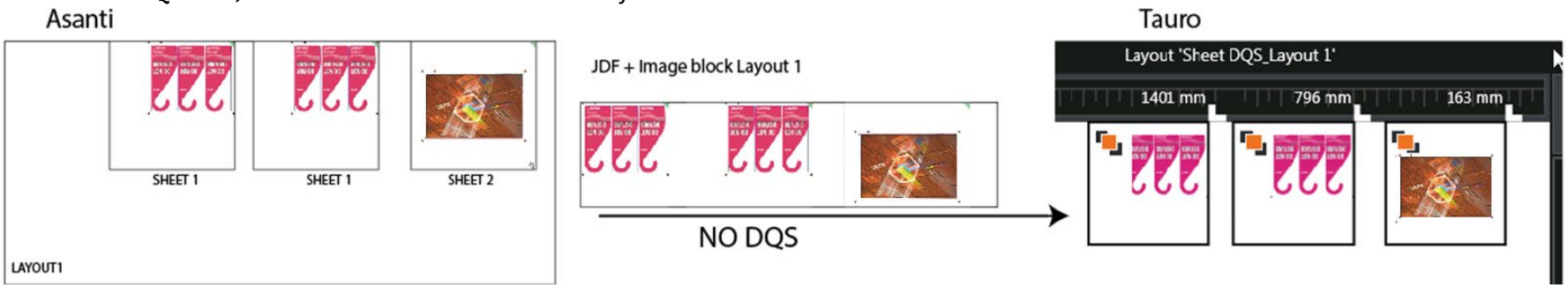
- When a Sheet is placed more than once on the Layout, its image block will only be rendered 1x.



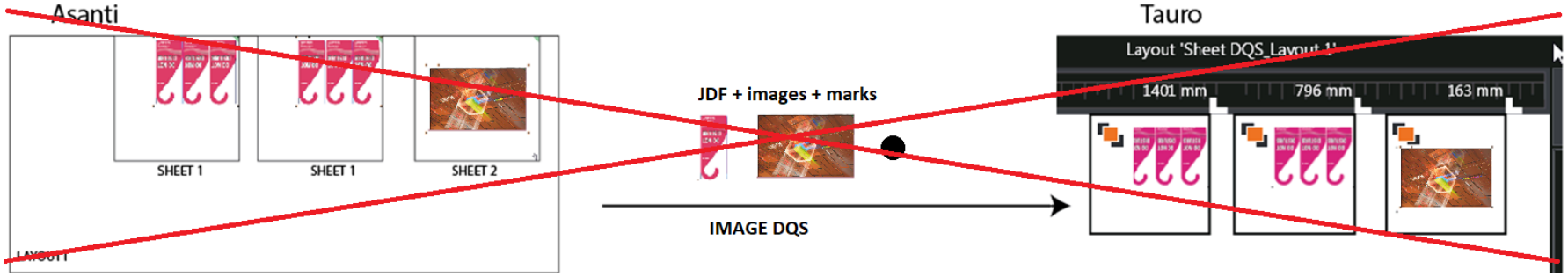
- Sheet DQS can be disabled in the Layout Editor by clicking on the orange DQS icon. The icon will change in DQS disabled state. Turn off DQS is only needed in case of issues with Sheet DQS.



- With Sheet DQS OFF, the Sheet block is rendered = lay corner + all Sheet blocks.

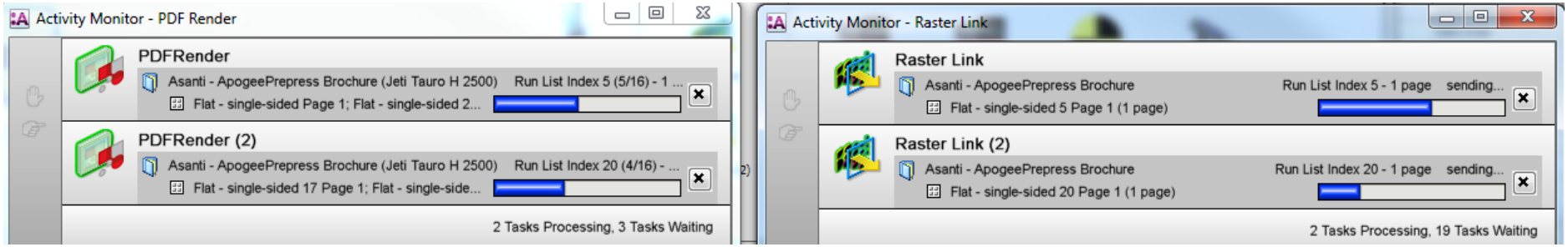


- Image DQS (render images and marks separately) is not possible to Tauro.



13. Multiple Raster Link Task Processors

If Asanti has multiple PDFRenders and raster links installed, all PDFRenders and raster link Task Processors will be used when printing multiple jobs/jobs with multiple sheets. Multiple raster links can send data to the Tauro at the same time.



14. Job updates

When Asanti sends an update for an existing job, re-rendering or just re-sending JDF is needed.

When only a JDF needs to be sent to Tauro, only the Raster Compose component becomes green.

The following table shows an overview:

Change in Asanti Layout Editor	DQS ON	DQS OFF
Change job name, order number, remarks, customer info, Milestone (Due Date)	Only a new JDF is sent	Only a new JDF is sent
Changes in inspectors: Preflight/ColorManagement	Re-render job	Re-render job
Change Media	Re-render job	Re-render job
Change Media size	Only a new JDF is sent	Only a new JDF is sent
Change Thickness	Only a new JDF is sent	Only a new JDF is sent
Change CPM	Re-render job	Re-render job
Change Printer Parameters	Only a new JDF is sent	Only a new JDF is sent
Move Sheet on Layout	Only a new JDF is sent	Re-render Layout
Move image block on the Sheet	Only a new JDF is sent	Re-render Layout
Move separate products on the Sheet	Image block current Sheet re-renders	Re-render Layout
Add product to the Sheet	Image block current Sheet re-renders	Re-render Layout
Add a new Sheet placed on a new Layout	Image block new Sheet renders	Re-render Layout
Add a new Sheet to an existing Layout	Image block new Sheet renders	Re-render Layout
Add/remove marks on a Sheet/product	Image block current Sheet re-renders	Re-render Layout
Change Layout copy count	Only a new JDF is sent	Only a new JDF is sent

15. Job Deletion

The info below describes which data is deleted on disk when deleting on Tauro or in Asanti.

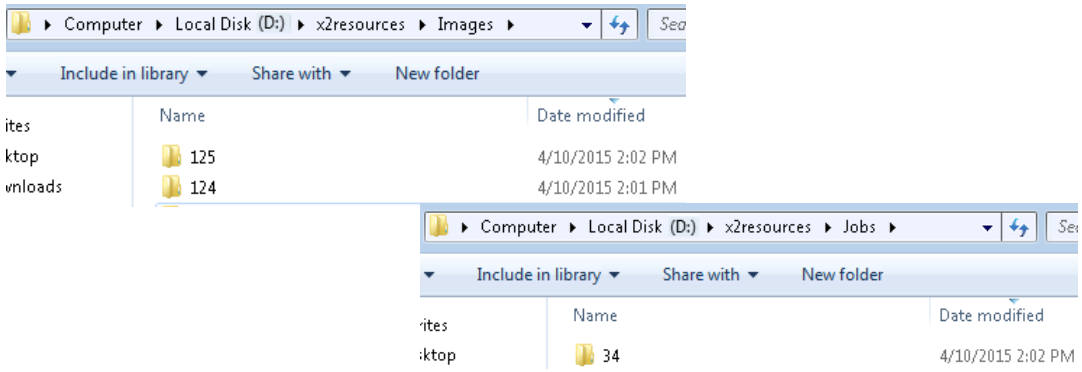
1. Deleting jobs only in Asanti client (Tauro 2500 GUI 4.0 or higher/Tauro 3300 GUI)

- When deleting a job in Asanti, the job is automatically removed from the Tauro.
- When free disk space < 60GB on Tauro (disk that holds the X2 Resources folder), Tauro will automatically remove PEC files from jobs in the Finished queue until disk has again 60 GB free. For jobs in the Tauro Ready queue, PEC files are not deleted.
- When restore a job from the finished queue to the ready queue in Tauro, Asanti will automatically re-send the PEC files to Tauro if these files are missing in the Tauro job.

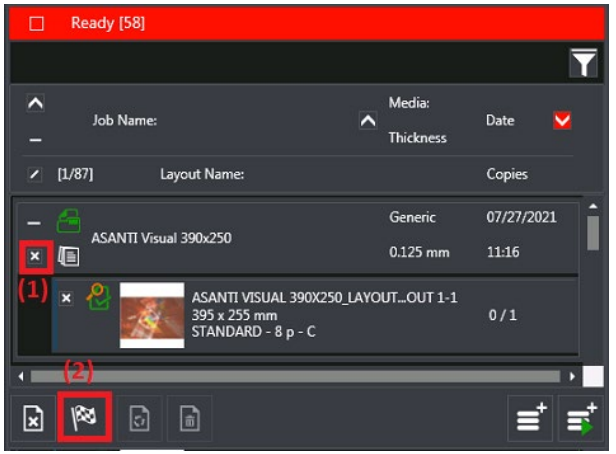
Action	jobs in Tauro ready queue	jobs in Tauro Finished queue
Job can be printed.	V	X (First need to move job to Ready queue)
PEC files are deleted when free disk < 60GB	X	V
PEC files are deleted when free disk > 60GB	X	X
Delete Asanti job removes Tauro job	V	V

It is best to move printed Tauro jobs to the finished queue as much as possible.
This insures that the Tauro disk always has > 60GB free disk space.

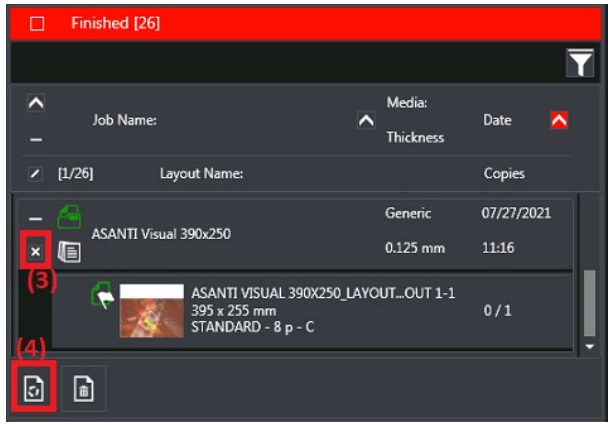
1. Create a New Wide Format job.
2. Select printer Tauro.
3. File>Add Products, open “ASANTI Visual 390x250.pdf” and place the product on the Sheet.
4. Submit job>Make and send to printer.
5. On Tauro PC, Folders with files are written to
   - \x2resources\Images\xxx\
     - Pec file (high resolution data)
     - Thumbnail
     - Xml files
   - \x2resources\Jobs\xxx\
     - Xml files



When the job is in the Tauro Ready list, the job can be printed. As long as the job is in the Ready queue, the PEC files are never deleted.

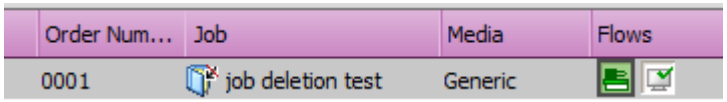


6. When the job is printed, it is best to move the job to the Finished Queue. Select the checkbox next to the job in Tauro GUI (1) and click Finish (2). The job is moved to the Finished Queue. The PEC file inside the X2Resources folder is not deleted. When you would process a lot more jobs, it is possible that the PEC file of this finished job is deleted automatically to free up disk space.



7. When a re-print is needed, the job first needs to be brought back to the Tauro Ready queue. Select the checkbox next to the job in Tauro GUI Finished queue (3) and click Restore (4). The job is moved to the Ready Queue.

If the PEC file is missing because Tauro automatically removed it, Asanti will automatically resend the PEC file to Tauro (Asanti job shows activity in Raster Link task processor).

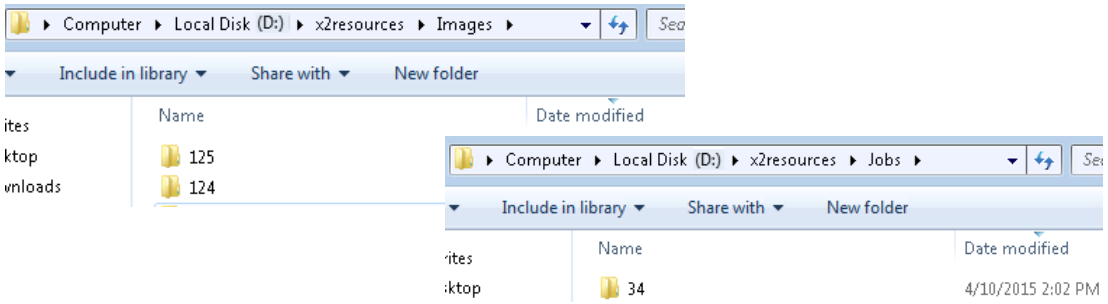


8. When the re-print is done, manually move the job back to the Finished Queue.
9. Asanti client> Delete Asanti job. The Tauro job is automatically removed. Data from X2Resources folder is automatically removed.

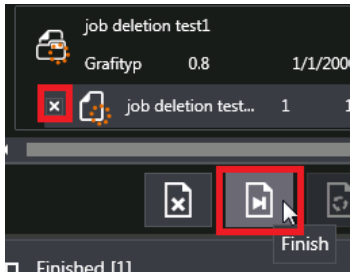
2. Deleting a job first in Tauro GUI (Tauro 2500 GUI 3.x)

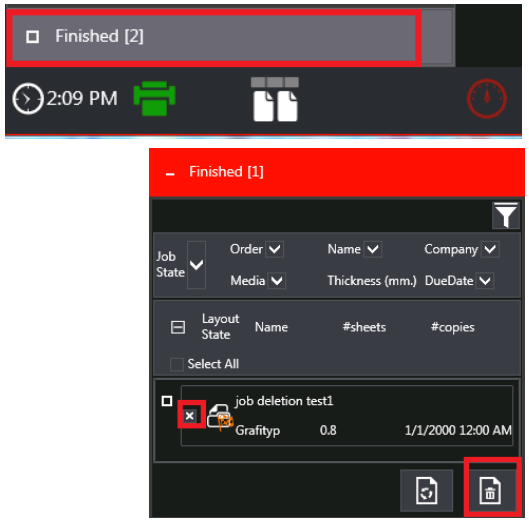
In Tauro GUI 4.0 or higher/Tauro 3300, it is not needed to delete the job manually in the Tauro GUI. The Tauro GUI 4.0 or higher/Tauro 3300 job is automatically deleted when delete the Asanti job (See previous page). Also when free disk < 60 GB, the PEC files are automatically deleted in Tauro for jobs in the Tauro finished queue.

1. Create a New Wide Format job.
2. Select printer Tauro.
3. File>Add Products, open “ASANTI Visual 390x250.pdf” and
4. place the product on the Sheet.
5. Submit job>Make and send to printer.
6. On Tauro PC, Folders with files are written to
   - \x2resources\Images\124\
     - Pec file (high resolution data)
     - Thumbnail
     - Xml files
   - \x2resources\Jobs\34\
     - Xml files



7. Tauro GUI: Select the Layout.
8. Print the job, wait until the job is printed.
9. Select the checkbox next to the Layout in Tauro GUI and click Finish. The job is moved to the Finished Queue.





10. Click the Finished Queue header to open the Finished Queue
11. Select the checkbox next to the Layout in the Finished Queue and click Delete. Data from \x2resources\Images\124\ is automatically removed (This might take a few seconds).

12. Asanti client: Select the Asanti job. Delete job.
    Data from \x2resources\Jobs\34\ is automatically removed (This might take a few seconds).

3. Deleting a job first in Asanti client (Tauro 2500 GUI 3.x)

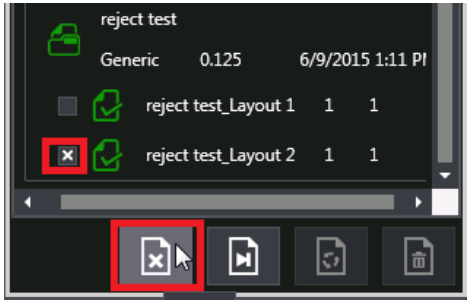
(For Tauro 2500 GUI 4.0 or higher/Tauro 3300 see: Deleting jobs only in Asanti client (Tauro 2500 GUI 4.0 or higher/Tauro 3300 GUI) on page 40.)

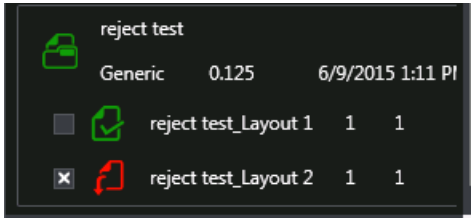
1. Create a New Wide Format job.
2. Select printer Tauro.
3. File>Add Products, open “ASANTI Visual 390x250.pdf” and place the product on the Sheet.
4. Submit job>Make and send to printer.
5. On Tauro PC, Folders with files are written.
6. Asanti client> Delete Asanti job. If the job is not finished yet, Tauro job automatically moves to the Finished queue. Data on Tauro disk is not removed.
7. Manually delete Tauro job in the Finished queue.
   - Data from \x2resources\Images\124\ is removed (This might take a few seconds).
   - Data from \x2resources\Jobs\34\ is removed (This might take a few seconds).

16. Reject results

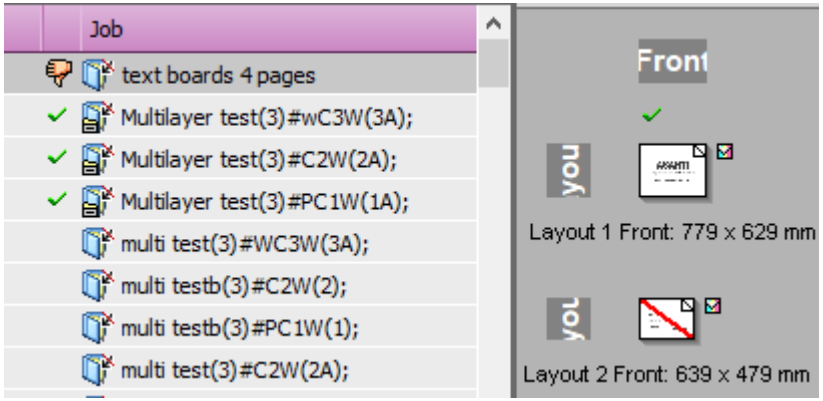
1. Reject Tauro Layout

1. Create a New Wide Format job.
2. Select printer Tauro.
3. Import file “text boards 4 pages.pdf”.
4. Enter Sheet size 800x800mm.
5. Select al products and drag them to the Sheet so you get 2 Sheets.
6. Submit job > Make and send to printer.
7. Tauro GUI: Select the checkbox next to Layout 2.
8. Click the Reject button.
   The Layout gets a rejected icon in Tauro GUI.

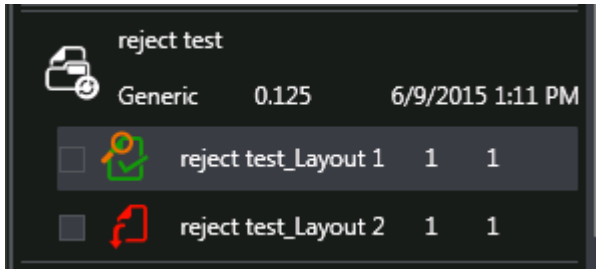




The Asanti job shows a thumbs down icon in the jobs list, in the results tab, Layout 2 gets a rejected state (strike through).

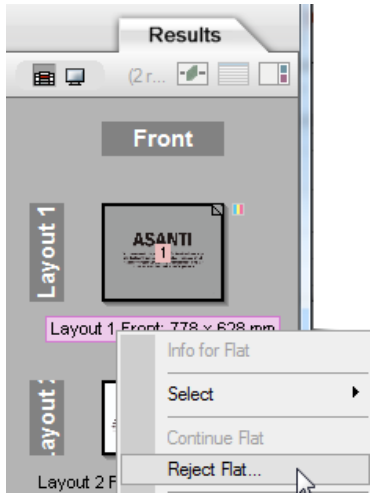


9. Tauro GUI: Deselect the checkbox next to Layout 2.
10. Tauro GUI: Select the checkbox next to Layout 1.
11. Click the Reject button.
12. The complete job is now rejected. The job is automatically moved to the Finished Queue.
13. Edit the Asanti job. On Sheet 1 scale the product a little bit on the Sheet (When a layout is rendered again, the reject state of that layout is removed).
14. Submit>Make and send to printer
    In Tauro GUI, the job is automatically moved to the “Ready” queue. Layout 1 doesn’t show a rejected state anymore.



2. Reject Asanti Layout

1. Create a New Wide Format job.
2. Select printer Tauro.
3. Import file “text boards 4 pages.pdf”.
4. Enter Sheet size 800x800mm.
5. Select al products and drag them to the Sheet so you get 2 Sheets.
6. Submit job > Make and send to printer.
7. Select the job in the Asanti client.



8. In the results tab context click the name of the Layout > Reject Flat.
9. Enter a comment and click “Reject”.
   The Layout shows a rejected state in Asanti (red strikethrough). A reject icon is shown next to the Layout.
   The Layout gets a rejected state in the Tauro GUI.

17. Recurring jobs

To prevent that recurring jobs are deleted a new property is introduced to indicate that a job is recurring or not. The following component is required for this functionality: FrontEndManager 2.7.0 (See also 25 Verify FrontEndManager version on page 55).

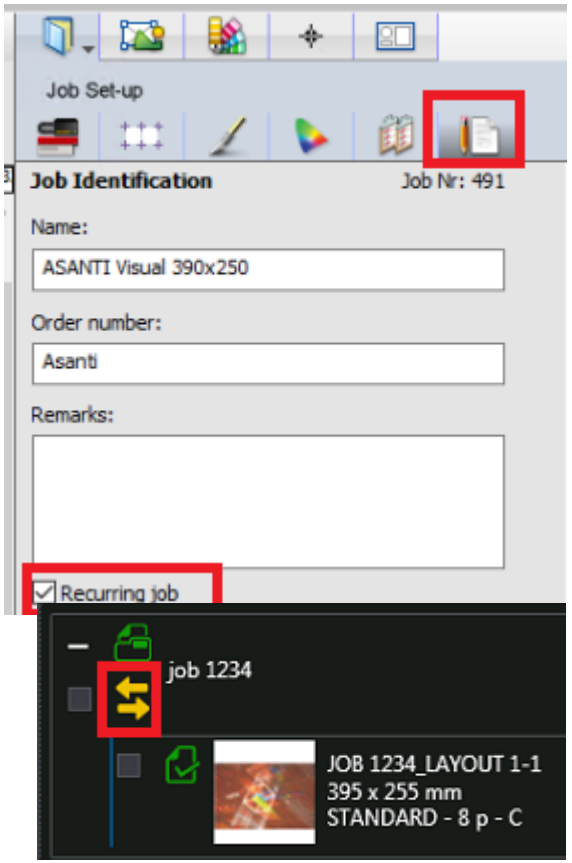
1. Create a recurring job

1. Create a New Wide Format job.
2. Select printer Tauro.
3. Import file “ASANTI Visual 390x250.pdf” and place the product on the sheet.
4. Open the Job Identification inspector.
5. Enable “Recurring job”
6. Submit>Make and send to printer
   The Asanti job gets a “recurring job” icon

The Asanti job filter can be used to filter recurring jobs.

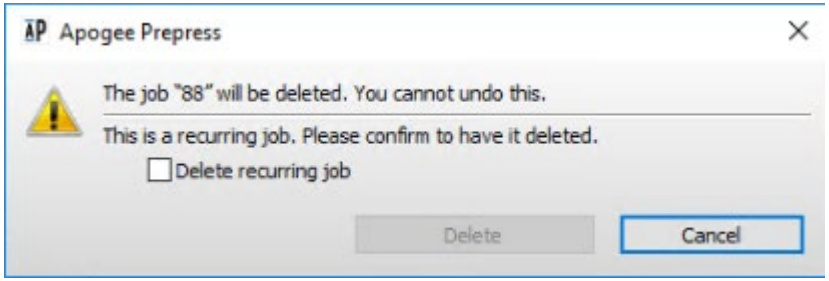
7. The job on Tauro also gets a “recurring job” icon

Recurring jobs will never automatically be moved to the finished queue when they are finished.

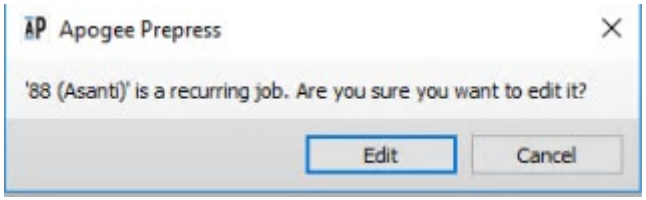


2. Delete/edit a recurring job

1. Context click the job in Asanti>Delete job
2. To delete the job you must check the additional checkbox “delete recurring job”.



3. Click cancel
4. Edit the Asanti job
   You get an additional dialog that mentions it is a recurring job.



3. Turn off recurring state

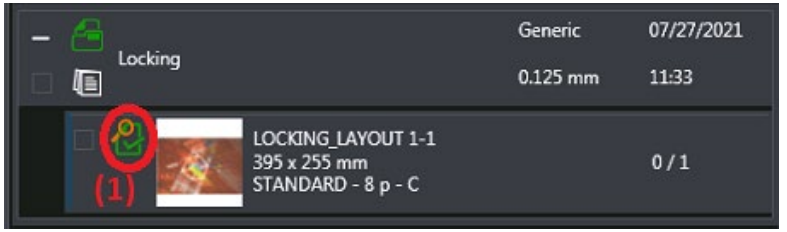
1. Edit the Asanti job
2. Open the Job Identification inspector.
3. Disable “Recurring job”
4. Submit>Make and send to printer
   The “recurring job” icon disappears from the Asanti and the Tauro job.

18. Job locking states

- When the job is being edited in Asanti, the job in Tauro shows a locked state. This doesn't prevent the user from printing the job.
- When the job is selected in Tauro GUI, the job in Asanti shows a printer icon. When editing the Asanti job, a message is given that the job is being printed. The user can ignore this message and edit the Asanti job.

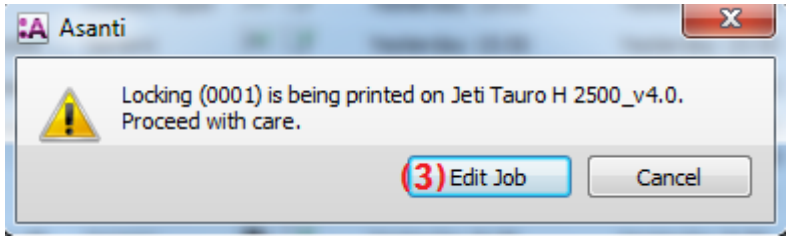
1. Print Tauro job

1. Create a New Wide Format job.
2. Select printer Tauro.
3. File>Add Products, open "ASANTI Visual 390x250.pdf" and place the product on the Sheet.
4. Set sheet size e.g. 500 x 500 mm
5. Submit job>Make and send to printer.
6. In Tauro GUI, the Layout gets a green icon (1), this means it is available to be printed.

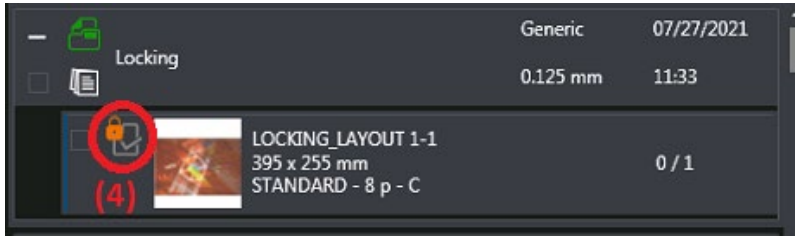


7. Tauro GUI: click on the Layout to see its details. With Tauro 2500 v4.0 or higher/Tauro 3300, the Asanti job shows a printer icon (2) when the job gets selected in the Tauro GUI.

8. Edit the Asanti job. If the Asanti job shows a printer icon, the job can be edited but an informational warning is shown. Click "Edit Job" (3) to proceed.

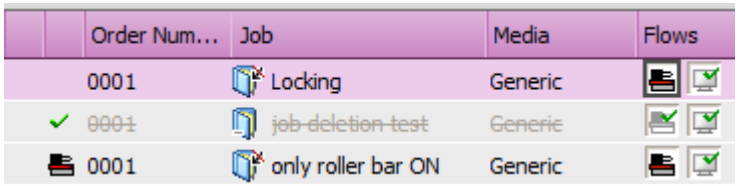


In Tauro GUI, the Layout gets a lock icon (4), this means someone is editing the job in Asanti.



9. Submit job>Discard.

10. Tauro GUI: Select another job.
    In Asanti client the printer icon disappears next to the previously selected job.

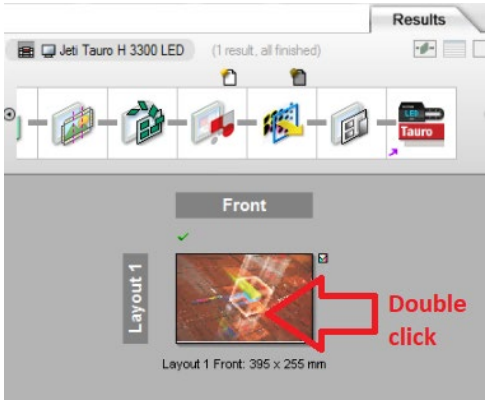


11. Select your job again, Print the job. When the job is printing in Tauro, the same job in Asanti will show a printer icon (even though that job might not be selected on Tauro.).

19. Continue a layout in hold state

If a layout is in hold in the jobs results tab (because the job was submit with print files: “Hold” or “Make And Hold”), it has a blue color in the jobs window. To continue the layout, context click the layout>Continue flat.

20. Raster Preview a layout



When a layout is in hold after the PDFRender (Submit>Make and hold) or when it is sent to the Tauro it is possible to Raster Preview the layout.

1. Select a job in the Asanti jobs list that is rendered for Tauro.
2. In the Results tab double click on the thumbnail of the layout (not on the name of the layout) to open the preview.

21. Disk full

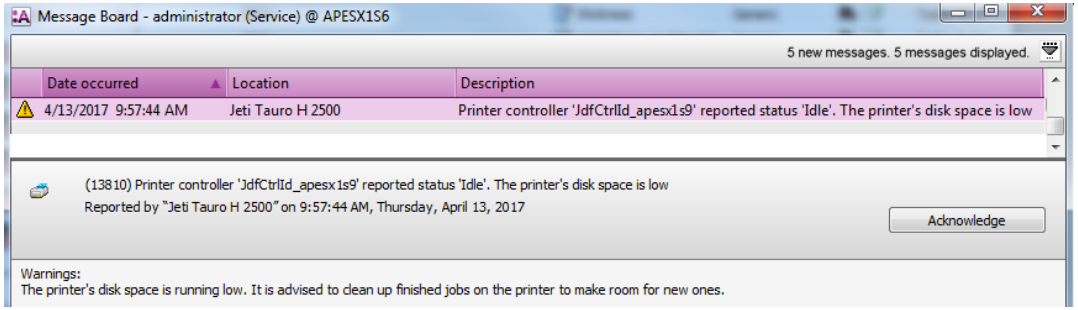
In Tauro 2500 GUI 3.x two disk space thresholds are set: Critical Level. = 35GB, Warning Level = 40GB

In Tauro 2500 GUI 4.0 or higher/Tauro 3300, three disk space thresholds are set: Critical Level. = 30GB, Warning Level = 50GB, Image Delete level = 60GB

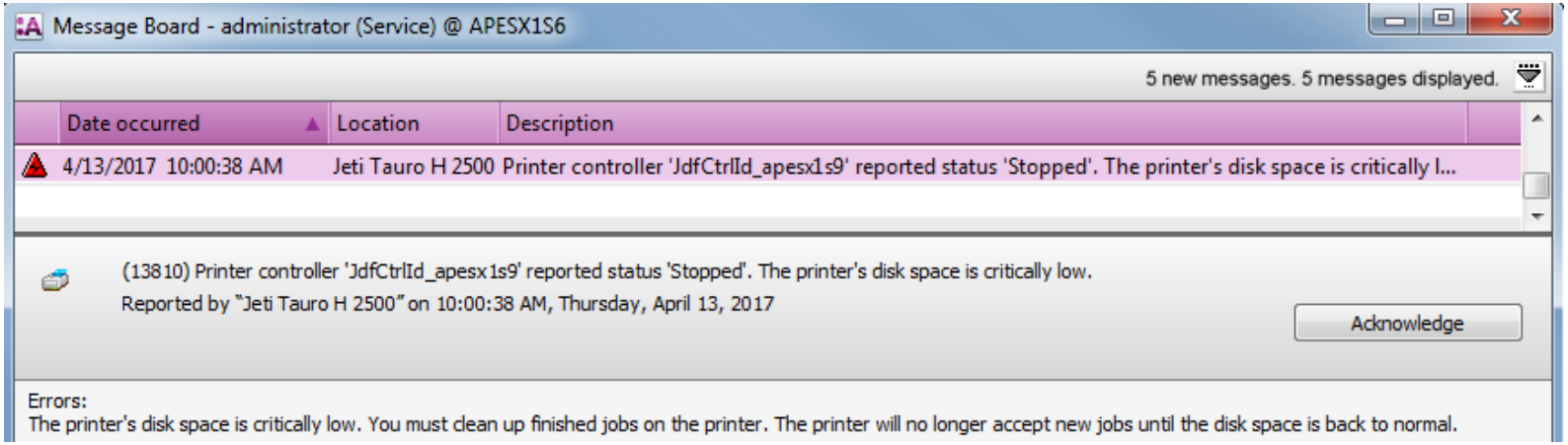
- When disk space on Tauro PC drops below Warning Level: Asanti client Message Board shows a warning message. In the System Overview, Tauro shows a blue man icon.

  It is still possible to process a job to Tauro.

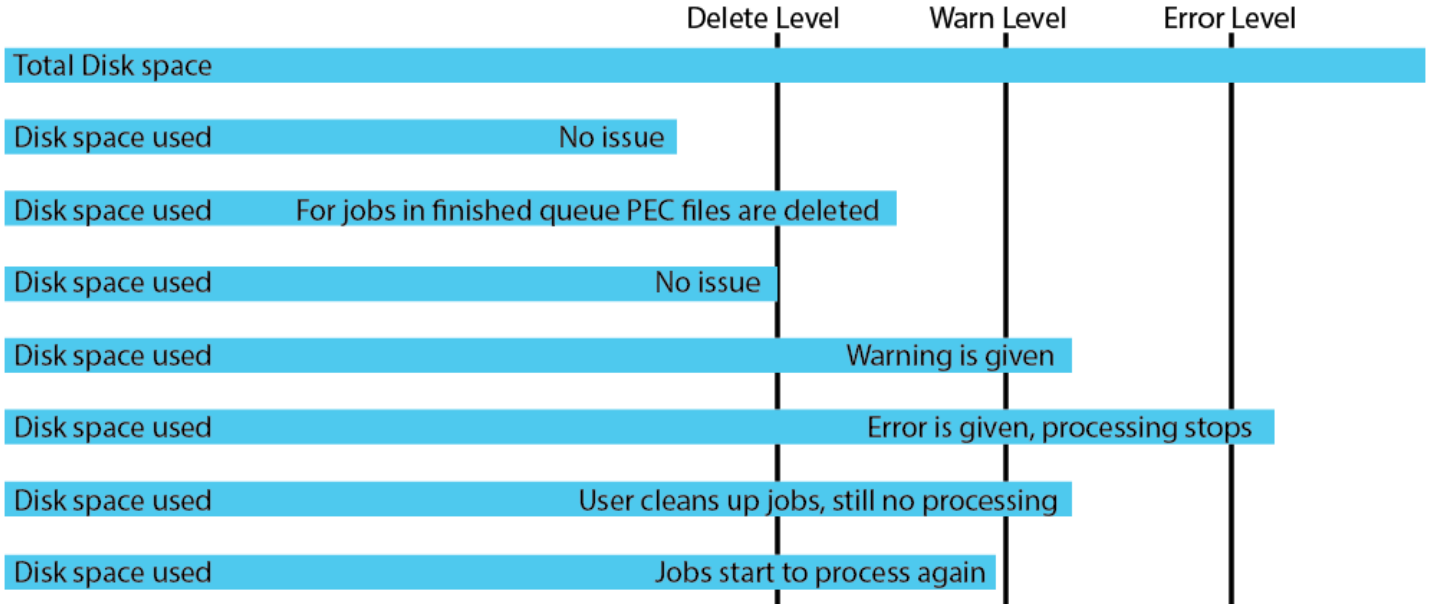
Jeti Tauro H 2500



- Tauro 2500 v4.0 or higher/Tauro 3300: While disk space on Tauro PC is below Image Delete level, PEC files are deleted on Tauro for jobs in the Finish queue. When the Tauro operator would move a job from the Finish queue to the Ready queue and the PEC file is missing on Tauro, Raster Link Task Processor on Asanti will automatically resend the PEC file to the Tauro.
- When disk space rises above Warn Level: Disk space OK Signal sent to Asanti.
- While disk space is below Critical Level: receiving of further image data from Asanti is blocked. An error is shown in the message board.

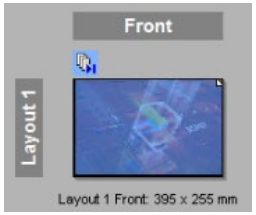
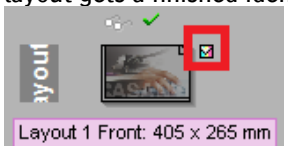
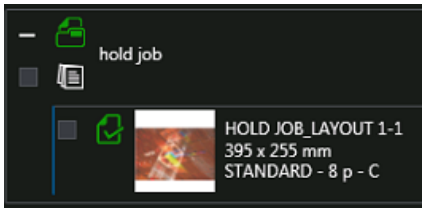
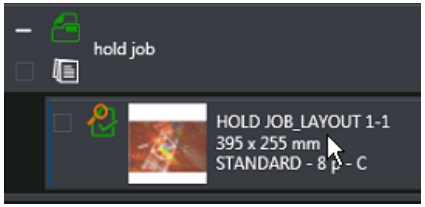
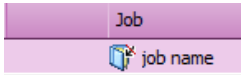
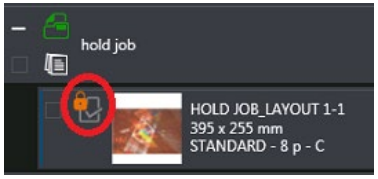


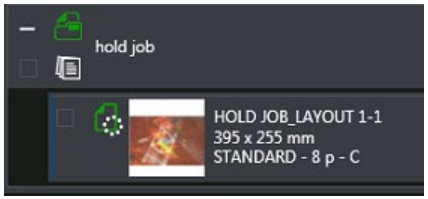
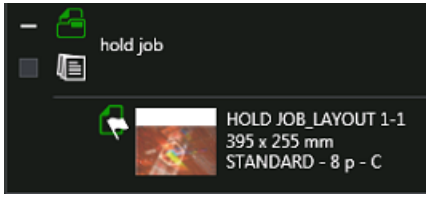
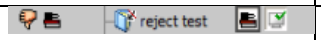
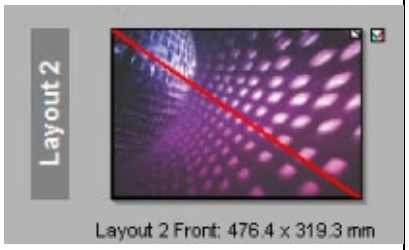
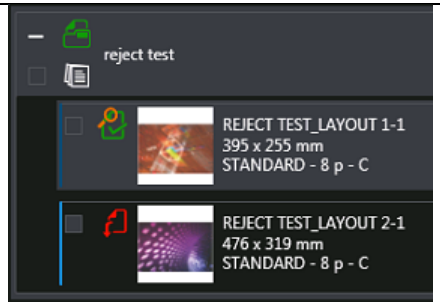
In the message board, the Tauro Task Processor shows a “red man” icon.



22. Job statuses

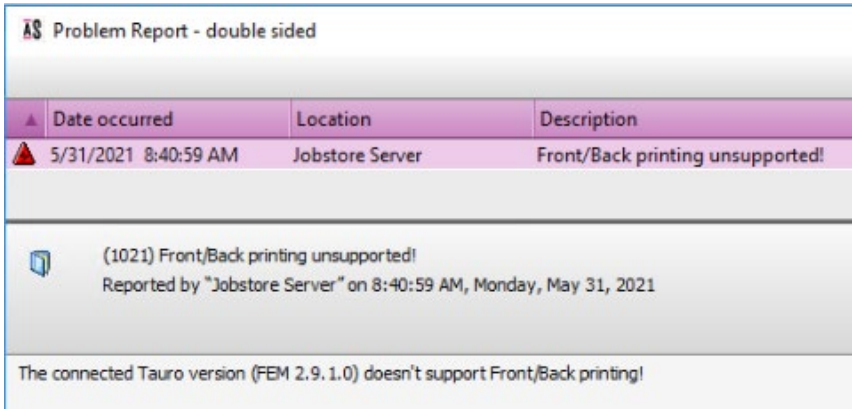
A job can have the following statuses:

Action	Asanti job list state	Asanti results tab state	Tauro job states	Remarks
Submit a job in Asanti with option hold/Make and hold.	The Asanti job goes in hold before render (blue state).	The Sheets show a blue color. 	Job is not visible. Job is only shown on Tauro when results are processed by Raster Link task processor.	
Submit a job in Asanti with option Make and send to printer. Continue job in hold before/after render: in the results tab, context click the name of the Layout>Continue flat.	During processing, flow identifier is green , when done processing, white.	Render (if job was in hold before render), Raster Link and Raster Compose process the layout. The layout gets a finished identifier. 	The layout becomes visible on Tauro. 	
Select a layout on Tauro.	Asanti Job shows a printer icon	No special state	Click a layout in Tauro GUI to select it. 	When an Asanti job shows a printer icon and you edit the Asanti job, a message is given.
Select a layout of a different job on Tauro.	Printer icon is removed 	No special state	No special state	
Edit Asanti job.	The job shows an edit and a hold icon	No special state	During the edit, all layouts of this job show a lock icon. 	It is still possible to print the layouts of this job.

Action	Asanti job list state	Asanti results tab state	Tauro job states	Remarks
A layout of the job is available in the Print queue on Tauro or a layout of the job is busy printing.	Job shows a printer icon When no jobs are printing/in the print queue, the printer icon is removed.	No special state	The layout shows a busy state 	When an Asanti job shows a printer icon and you edit the Asanti job, a message is given.
Move a Tauro job to the Finished queue.	Job gets a green checkmark and flow identifier a finished icon.	No special state	Job shows a finished state in the finished queue. 	
Reject a layout on Tauro.		Result is also rejected (Strike through) 		
Delete Tauro job.	No special state	No special state	Job is deleted	
Delete Asanti job.	Job is deleted		Job is deleted	

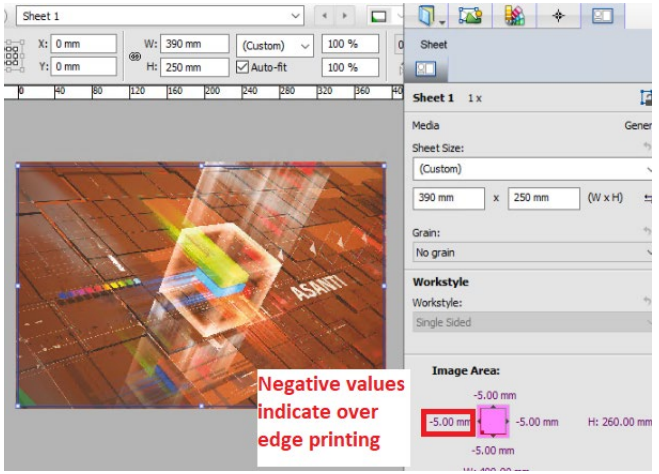
23. Double sided Asanti jobs

In Asanti 5.1 it is possible to create products with a front and a back artwork. When placing such a product on the sheet, you get a front and a back sheet. When a job has minimum 1 back sheet, the job is considered as a double sided job. FrontEndManager 2.9.2 is required to send double sided jobs to Tauro (See also 25 Verify FrontEndManager version on page 55). When send a double sided job to a Tauro with an older FrontEndManager, the Asanti job will go in error.



24. Borderless Printing

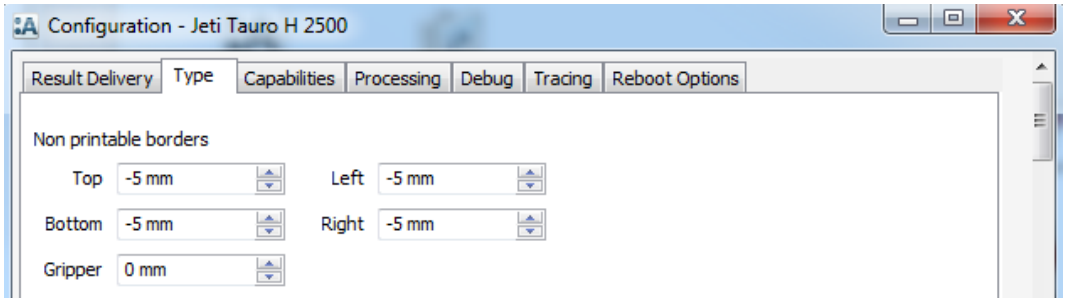
Borderless printing jobs are jobs where we print over one or more edge(s) of the sheet. A typical example of an Asanti borderless print job is a job where the bleed is printed over the sheet edge.



A borderless print job on Tauro will have a warning icon on the Thumbnail. When you hoover over the icon a tooltip will indicate that overprinting will be done. Notice that there is no indication how much overprint will be done.

Asanti client also adds a ″Non printable borders″ option in configuration settings (Type tab) of your Tauro Task Processor.

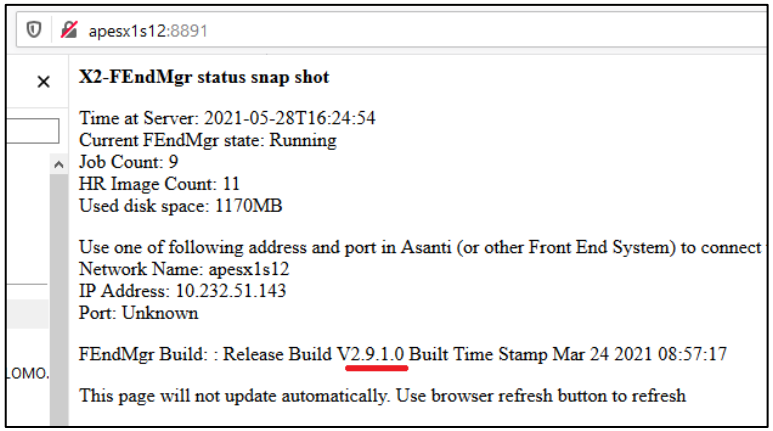
The config option only influences the maximum media width (2540 mm) and media height (4000 mm) of the Tauro. The media width will increase with 10 mm with the current non printable borders values (- 5 mm for Left and Right).



The ″Top″ and ″Bottom″ values will increase the maximum height. For Hybrid Tauro devices the height will increase from 75748 mm to 75758 mm. When you change the Tauro Type to ′Flatbed′ then these values will change the maximum height of 4000 mm to 4010 mm.

The current implementation is very basic and will be optimized/changed in later releases. Ignore the Non Printable borders ″Gripper″ option. This option should be removed.

25. Verify FrontEndManager version

FrontEndManager is a component that runs on the Tauro PC. It gets installed automatically together with the Tauro software. The component is responsible for the communication between Asanti and Tauro.

1. Open an Internet browser
2. Enter the address http://Taurohostname:8891, this should give a reply. The info window shows the version of FrontEndManager.