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TECHNICAL NOTE

☒Software ❍Hardware

CGS ColorTuner Web v1.2 b250 Set-Up / Config With an Offline Spectro

Date: 4-20-11
Version: 1.0
Environment: Windows XP SP2
Note:

Purpose: A general procedure on how to setup and configure Oris Color Tuner Web v1.2 on a Windows XP (SP2) OS driving an inkjet proofing device. This implementation is done using an offline spectrophotometer, *a custom paper profile*, and targeting a GRACoL 2006 Coated1 target.

This document contains the following sections:

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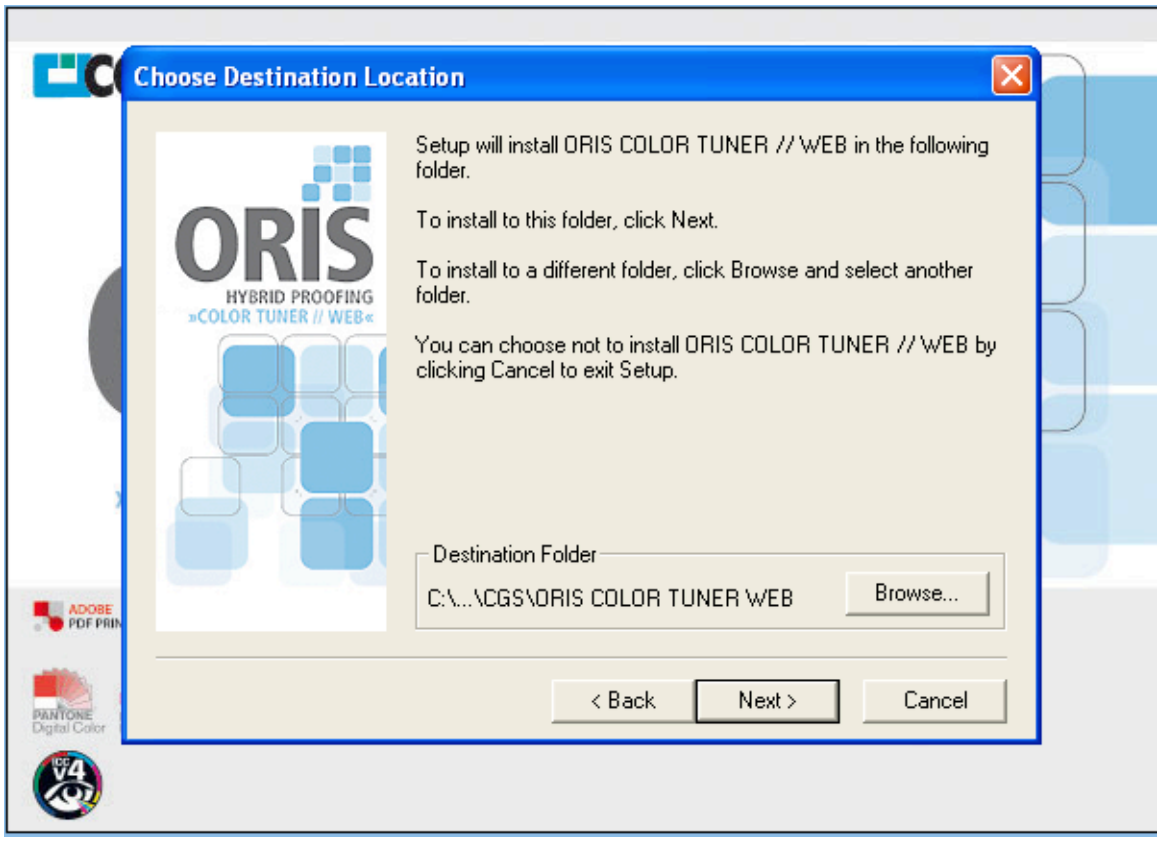
INSTALLING THE SOFTWARE

1. Double click the installer application (if the application has not already started when you inserted the CD).
2. Once the installer runs, you will be asked where to install the software. Choose the default location.

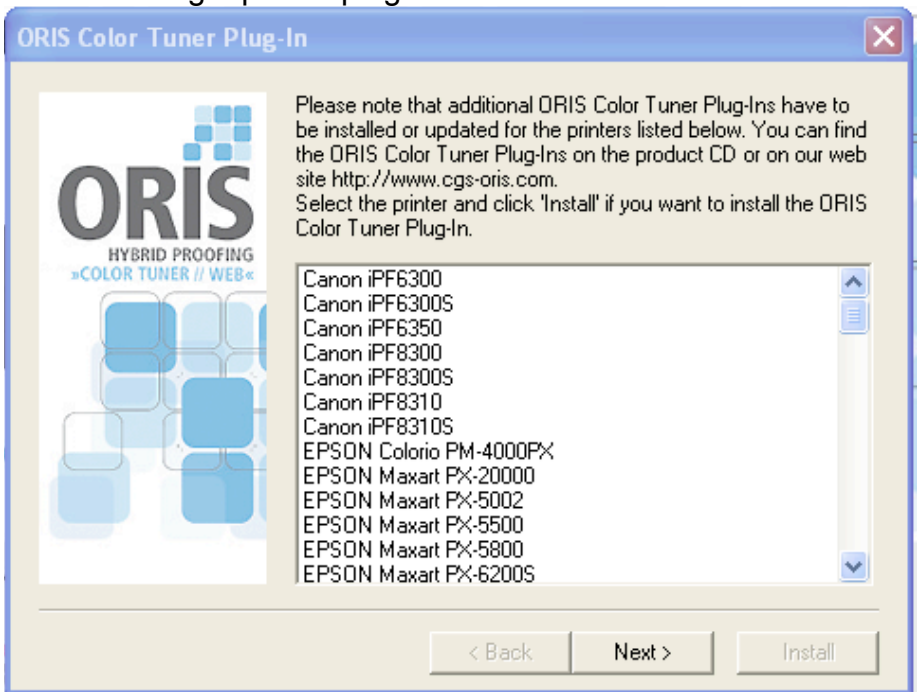


3. Click *Next* and the installer will continue.

4. Insert the USB dongle when asked.

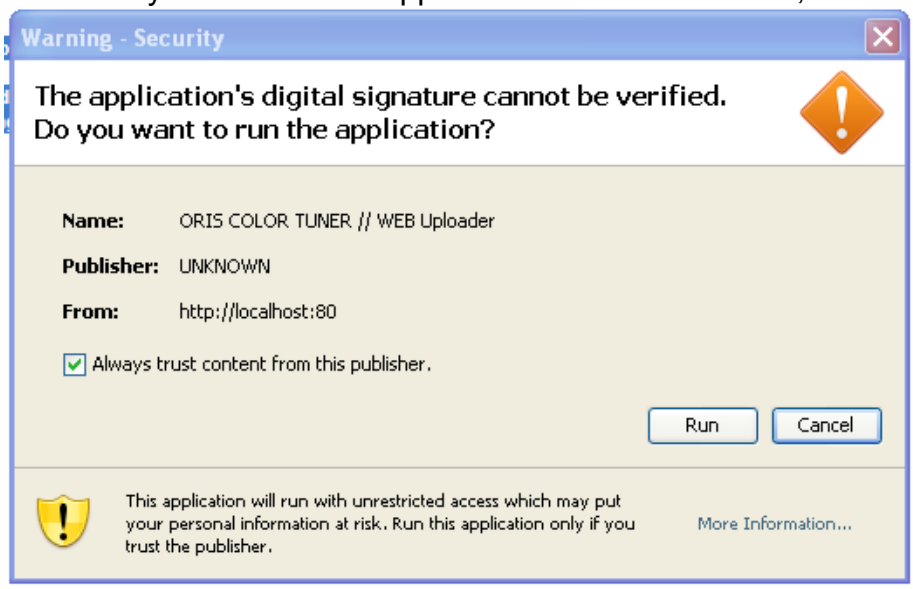
5. Click Next.

6. Select the target printer plug-in to be installed from the list.



7. Click Next

8. If a security warns that the application cannot be verified, click *Run*.



The installer will complete the installation. Uncheck the option to view *Read Me* and *Launch Oris Color Tuner*.

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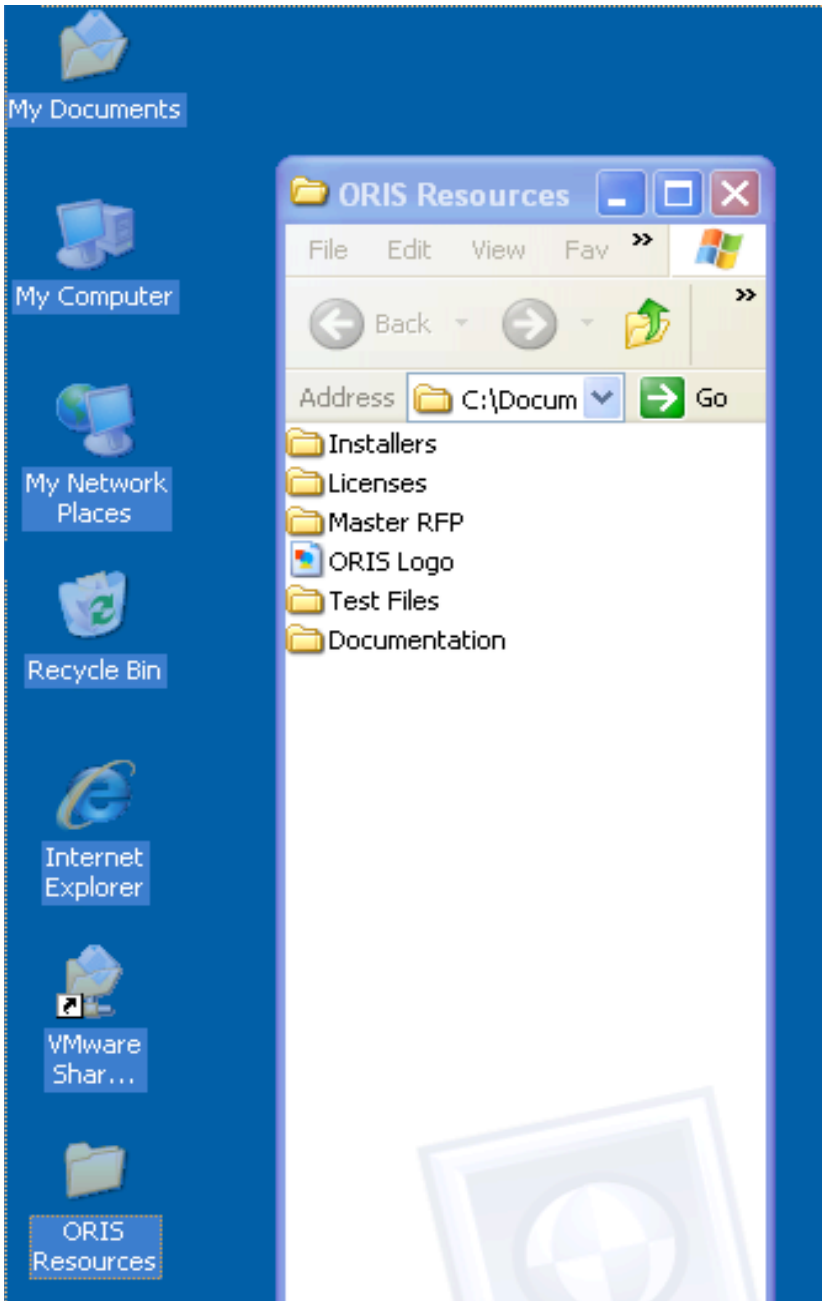
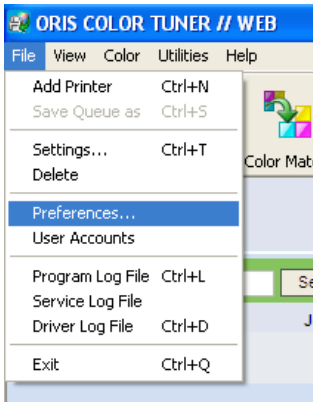
GENERAL CONFIGURATION

9. Create a folder on the desktop called: *ORIS Resources*
10. Create a folder structure as illustrated below:

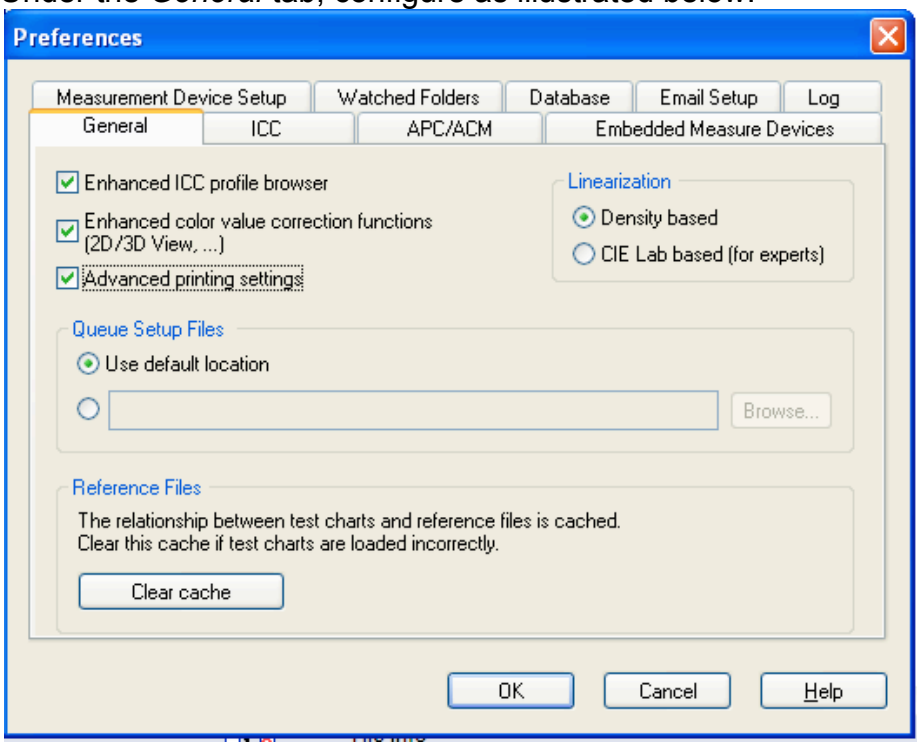


11. Copy files into the appropriate folders as labeled.

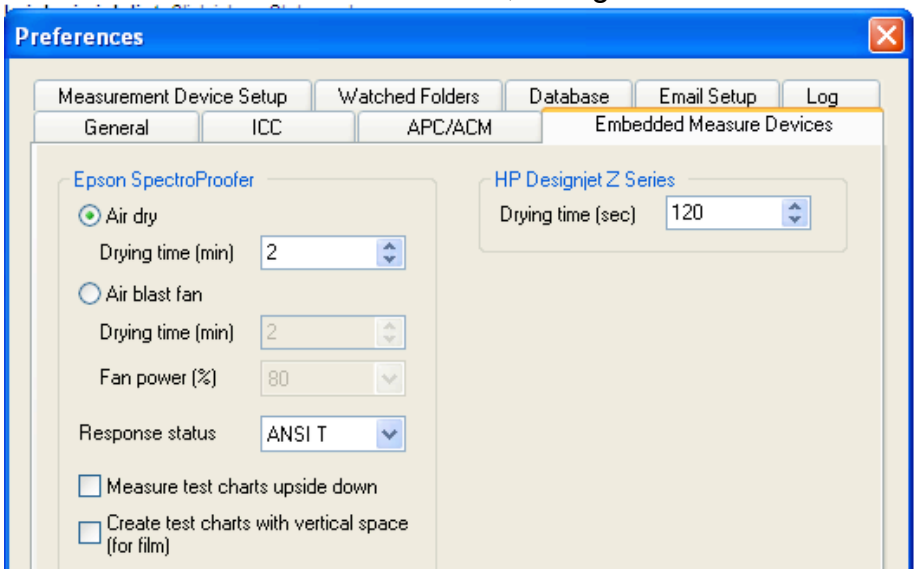
12. Launch ORIS Color Tuner Web application
13. Select the *File* menu and select *Preferences*.



14. Under the *General* tab, configure as illustrated below:

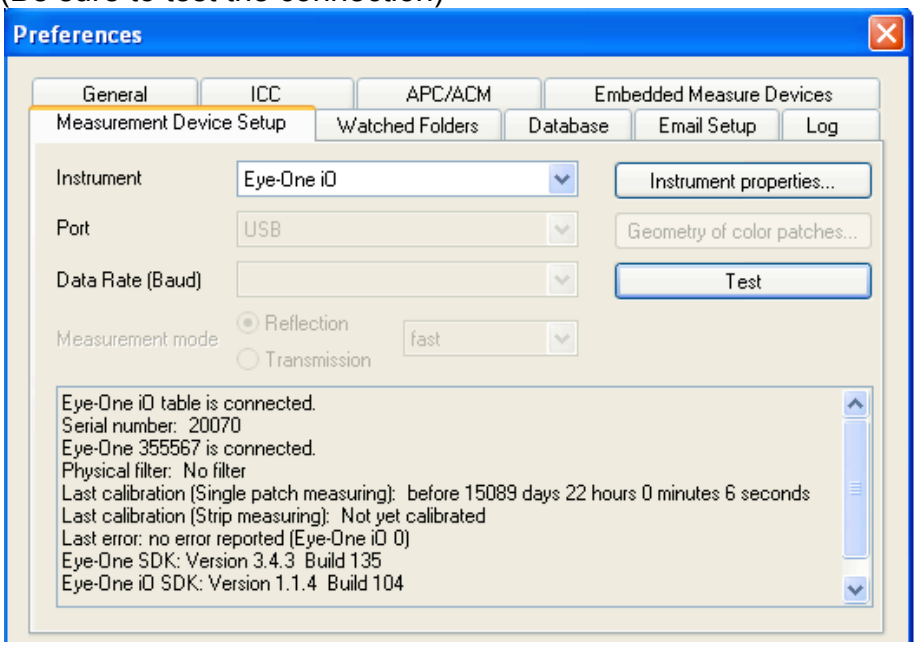


15. Under the *Embed Measure Devices*, configure as illustrated below:



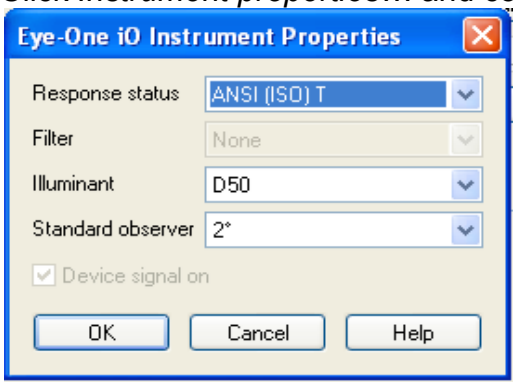
This configuration is based on the Epson being equip with an embed SpectroProofer.

16. Under the Measurement Device Setup, configure as illustrated below. (Be sure to test the connection)



This configuration is based on offline measurement device.

17. Click *Instrument properties…* and configure as illustrated below.



18. Close out of Preferences.

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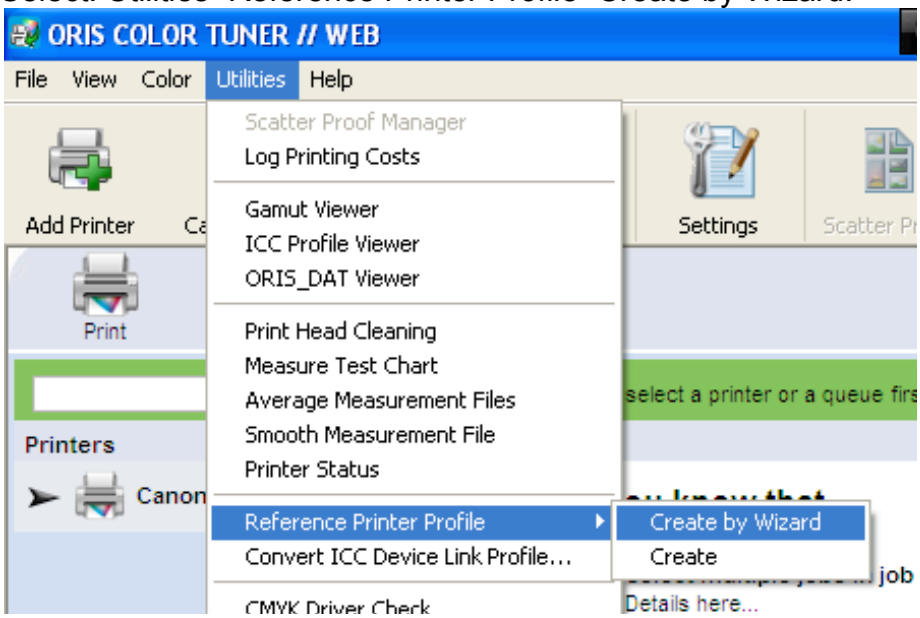
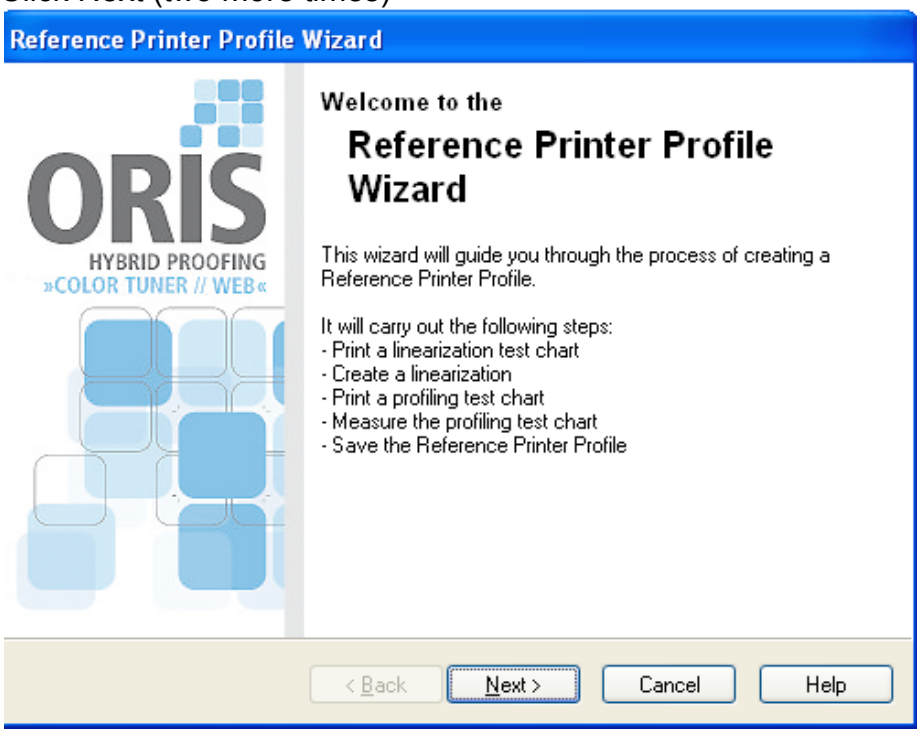
BUILDING A REFERENCE PRINTER PROFILE

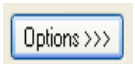
(This is based on a proofing system that does not use a known CGS paper type)

19. Select: Utilities>Reference Printer Profile>Create by Wizard.



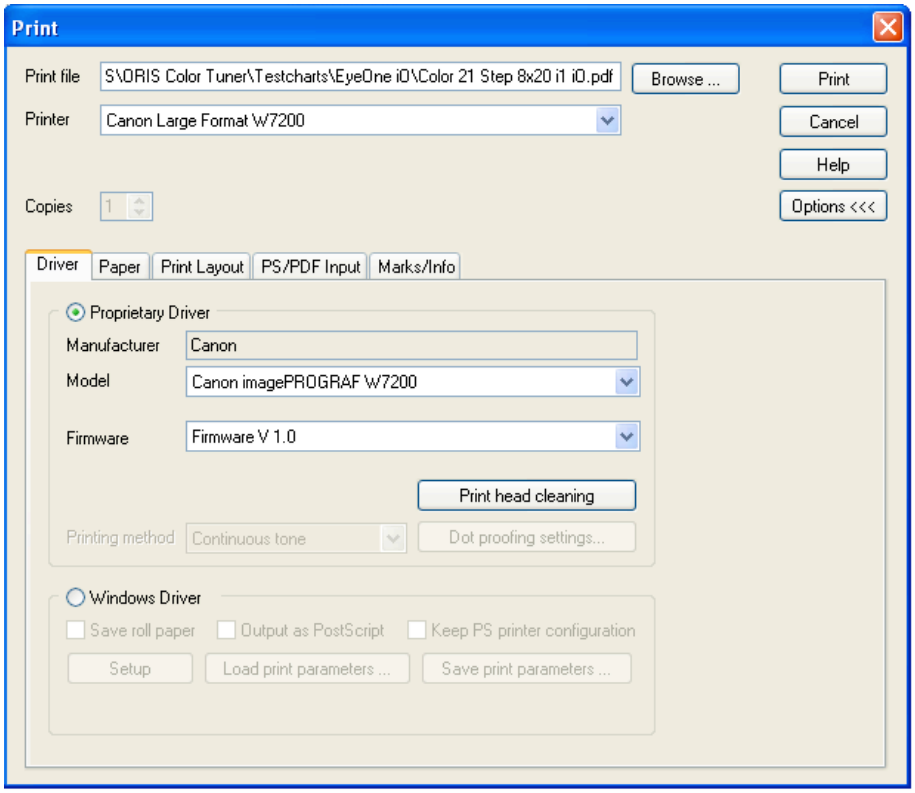
20. Click Next (two more times)



21. Click on the 

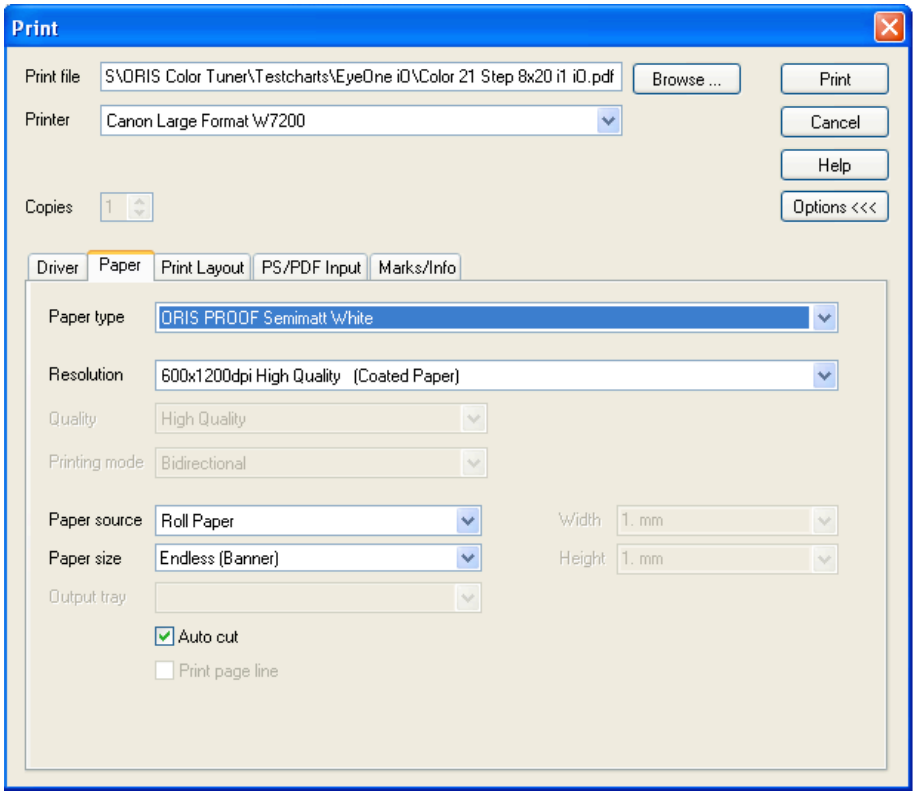
icon to expand the view.

22. Under the *Driver* tab,
    a. Select the Printer pull down and select the windows printer installed.
    b. Select the *Proprietary Driver* radio button and target printer (ie – Epson Stylus Pro 9900).
    c. The selected *Print file* should be the *Color 21 Step 8x20* for your measurement device.

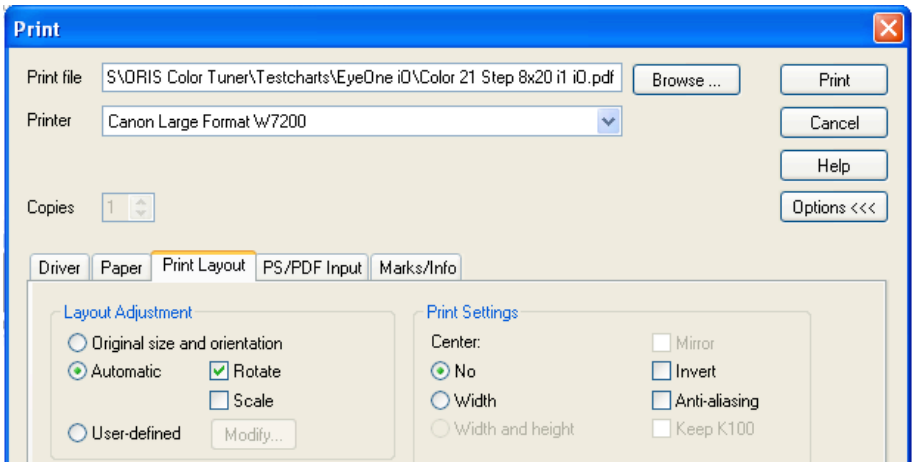


(Illustration does not reflect the Epson Stylus Pro selection)

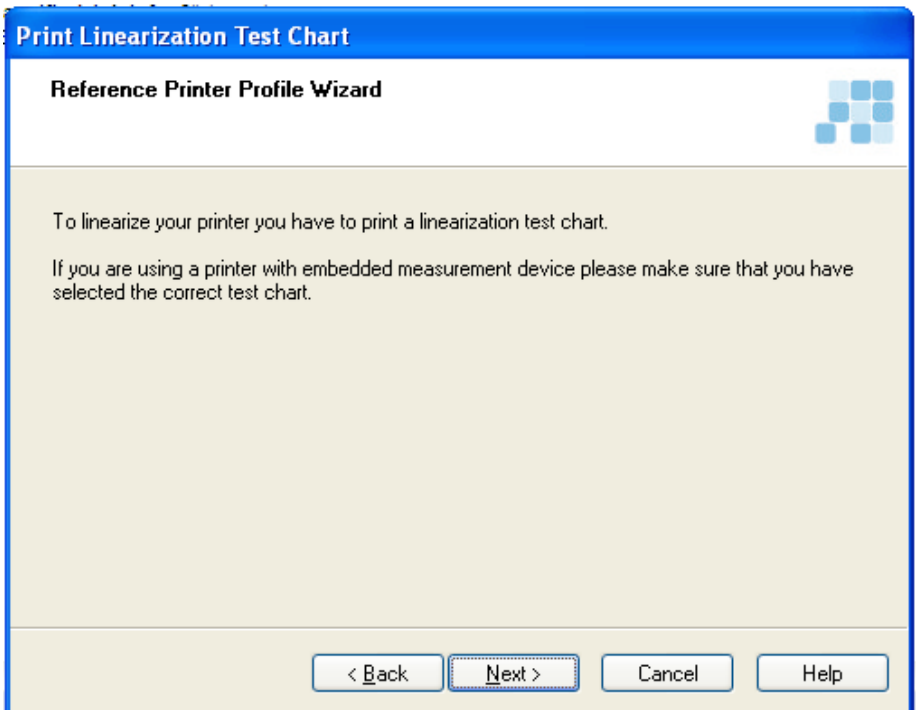
23. Under the *Paper* tab,
    a. Select Paper type: (select the most suitable paper available)
    b. Resolution: Epson printers work well with 720dpi Fine Detail.
    c. Paper source: Roll (select the width of the paper loaded in the printer)
    d. Paper size: depends on what width of a roll is in the printer.
    e. Be sure auto cut is turned on.



24. Under the *Print Layout* tab,
    a. Select Automatic Rotate.



25. Click Print, then Next.



26. The printer will then print a 21step color ramp. Cut out along dotted line.

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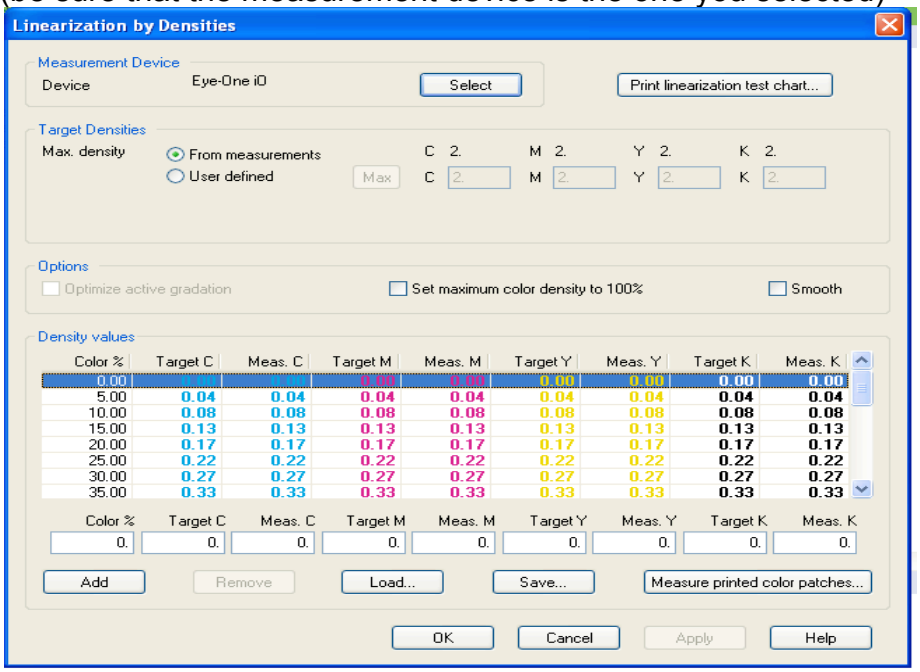
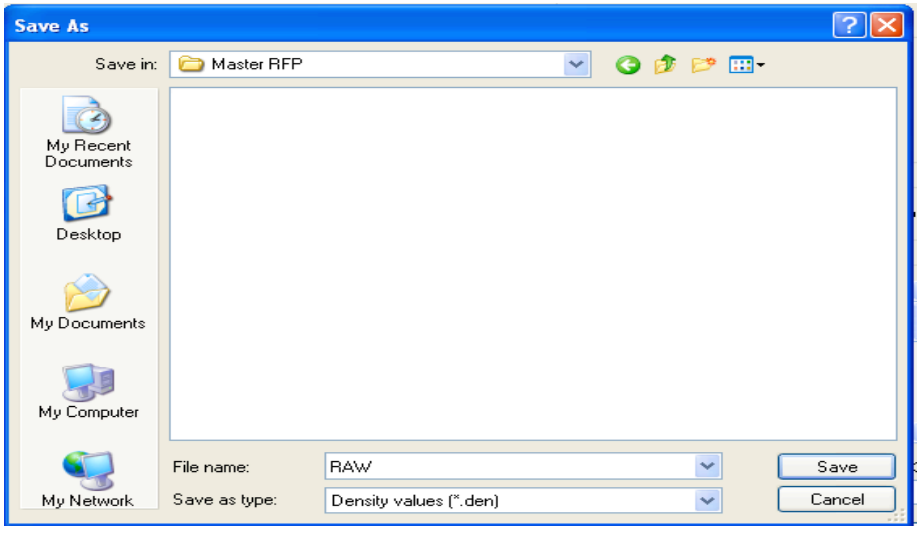
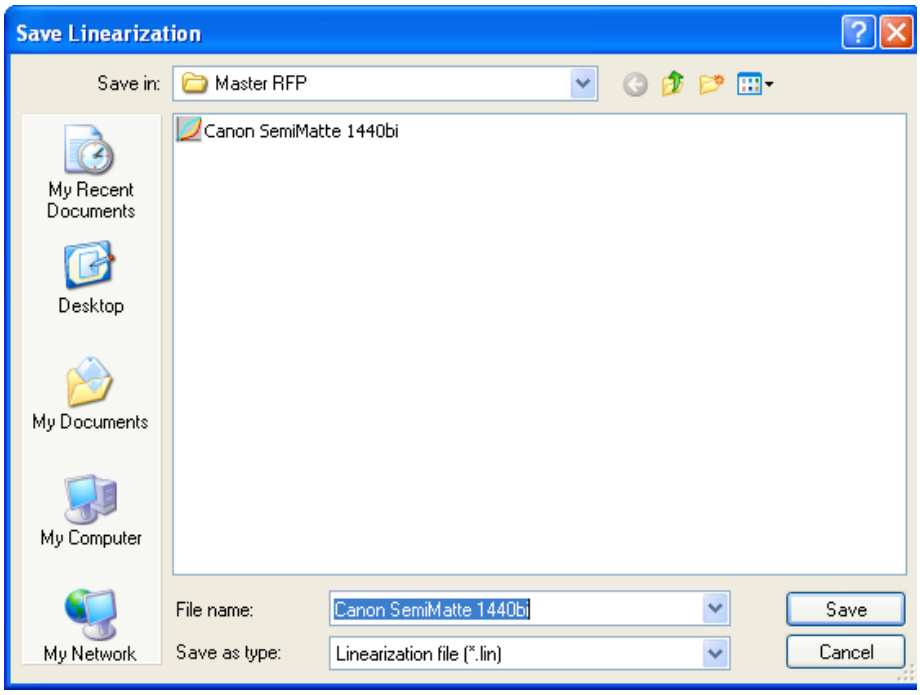
27. Click on the *Measure printed color patches* button
(be sure that the measurement device is the one you selected)



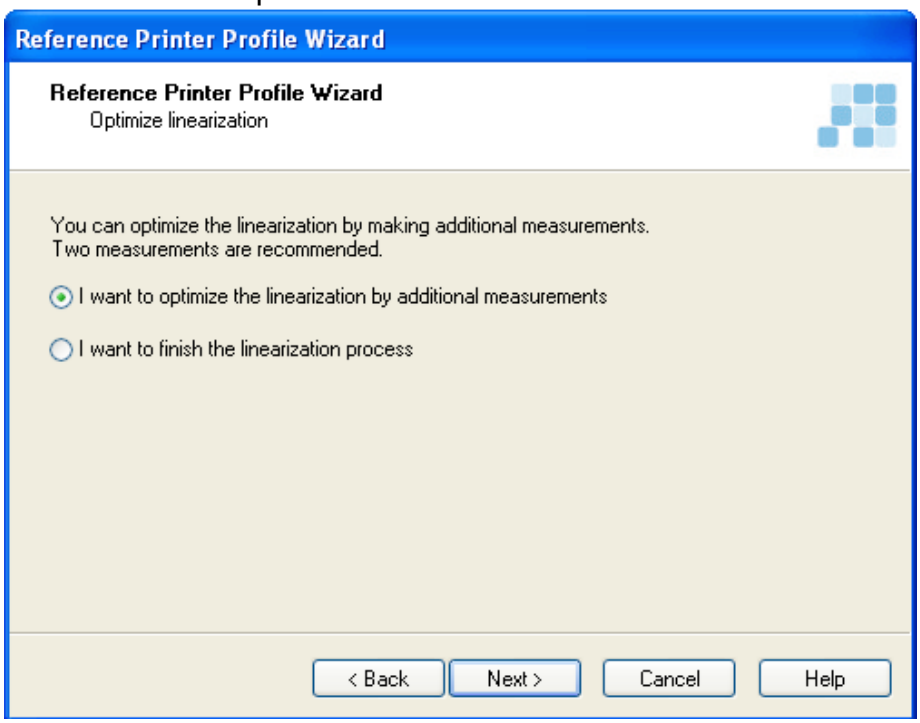
28. Once the 21-step file has been measured, evaluate the “From measurements” values and enter the appropriate ink limit.
(See supplemental document on how to determine ink limiting).
29. Click “User Defined” and enter the Target Densities. Click *Save*…
and save the measurement data in the Master RPP folder as “RAW”



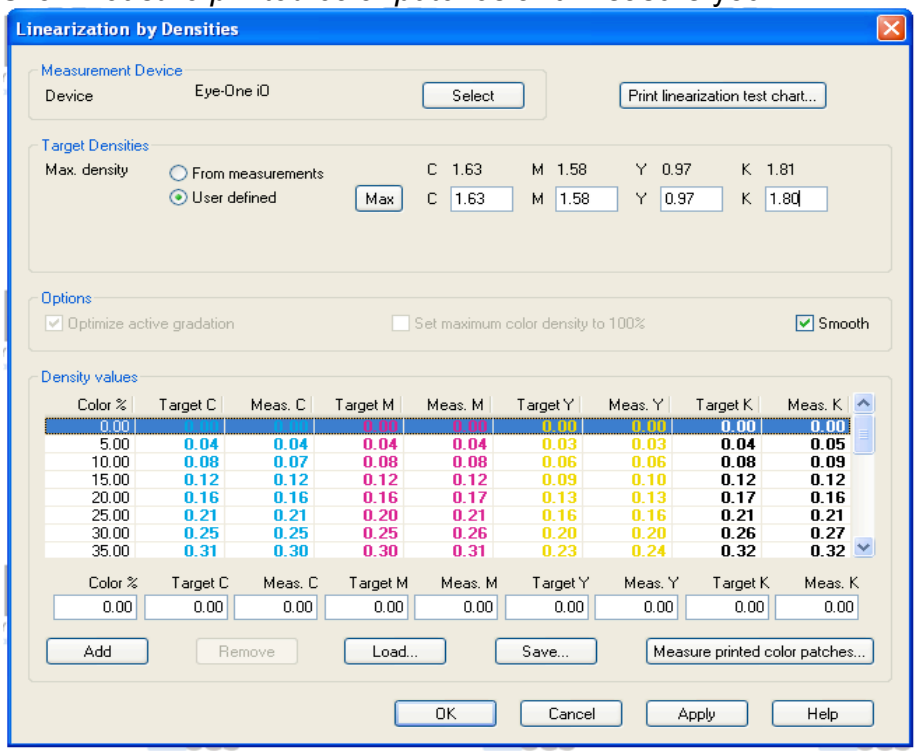
30. Click *Apply*, then *OK*.
31. Save the *Linearization* file in the same Master RPP folder



32. Select “I want to optimize…” then *Next*.

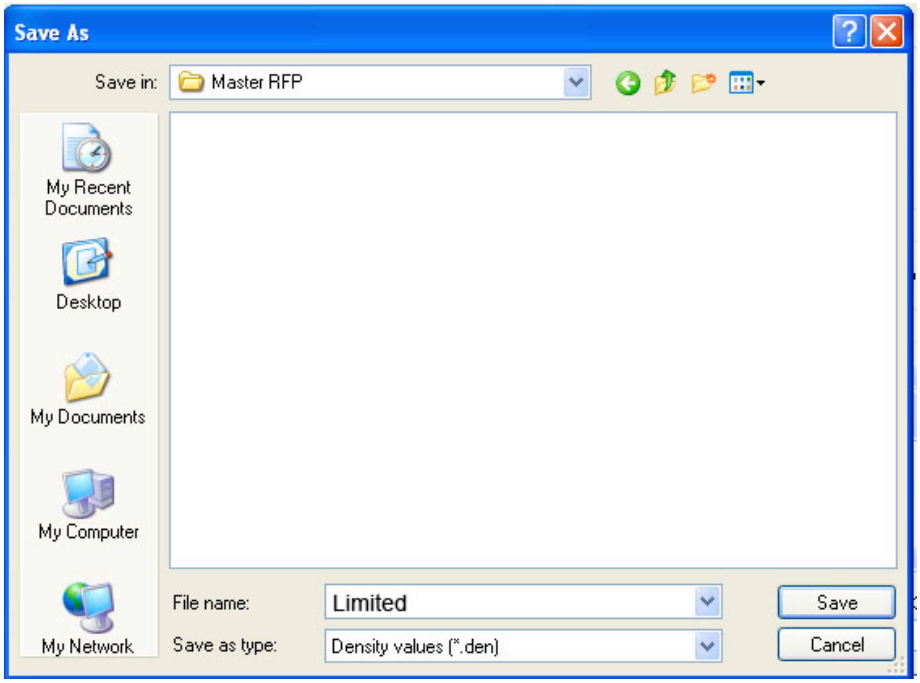


33. The printer will then print another 21step color ramp.
34. Click *Measure printed color patches* and measure your “LIMITED” chart.

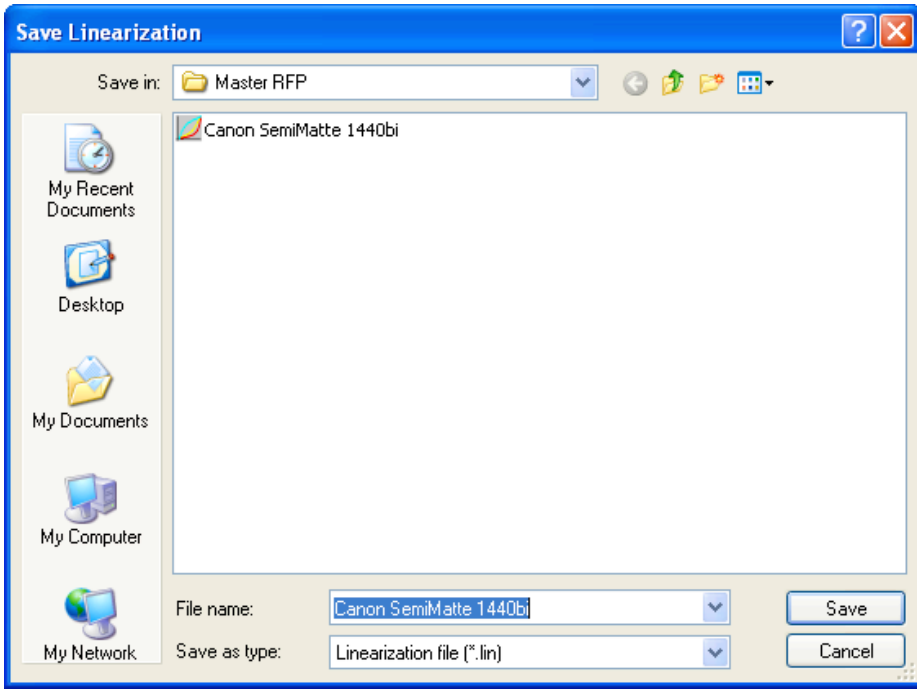


35. Once the measurement is completed, evaluate the resulting target densities. Determine if the “From measurement” values from the Limited measurement are close to the “User defined” values you entered in step #28 and that they are within an acceptable range of +/-.5 density. If they are acceptable, then go to the next step. If the densities are not close, then click OK, and then select “I want to optimize…” again.

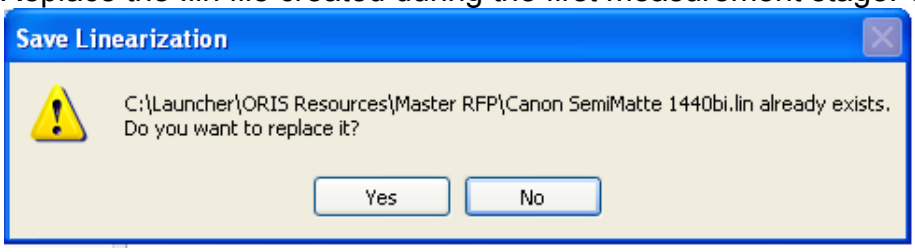
36. Once the 21step file has been measured, click *Save*… and save the measurement data in the Master RPP folder as “LIMITED”



37. Click *Apply*, then *OK*.
38. Save the Linearization file in the Master RPP folder as well.

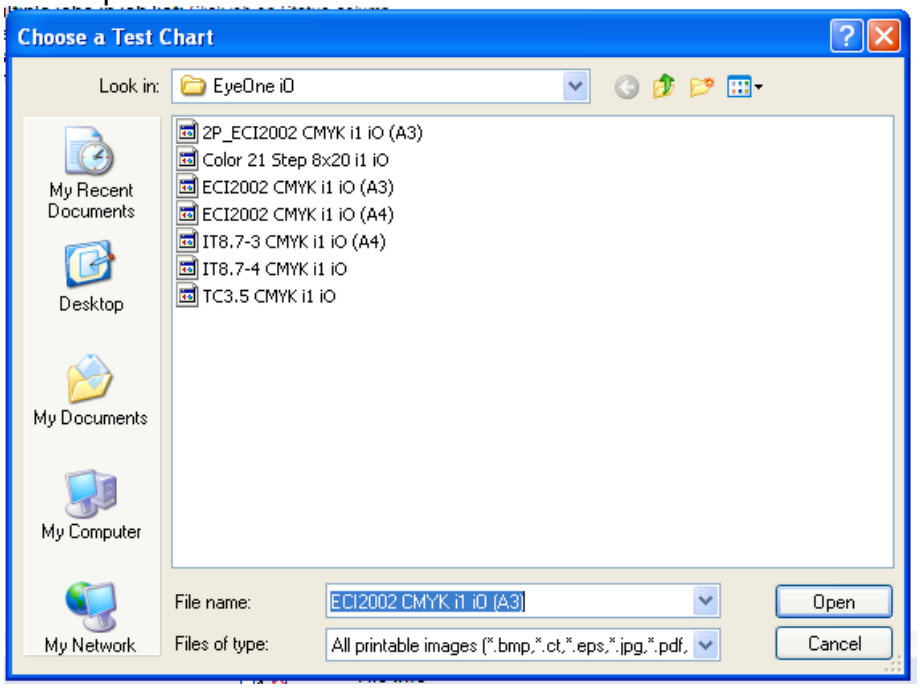


39. Replace the .lin file created during the first measurement stage. Click *Yes*.



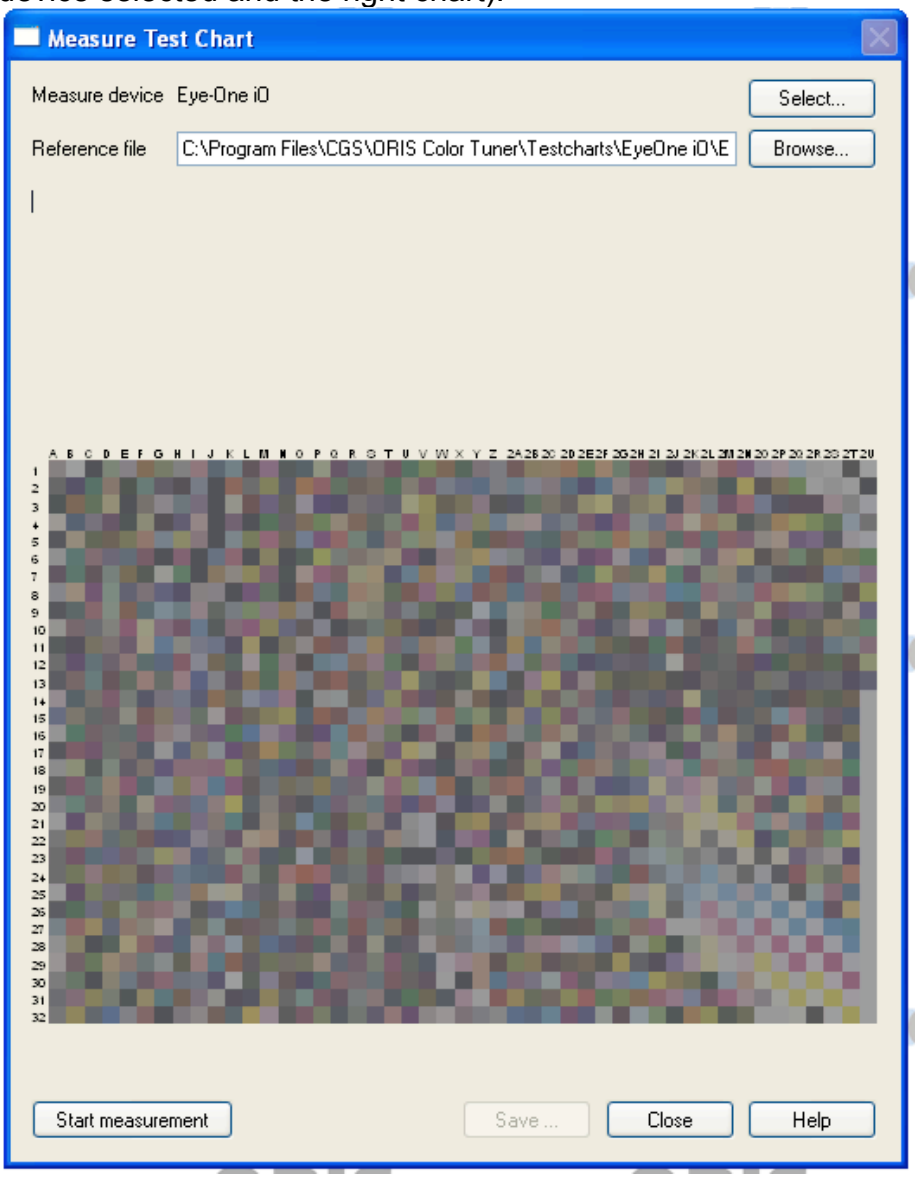
40. Select "*I want to finish the linearization process*" and click next.
41. Select "*I don't want to limit total ink coverage*" and click next.

42. Choose the Test Chart to be printed: ECI2002 for whichever measurement device you have. *Note- you may need to go up a few folders to find the right device.*
43. Click Open.



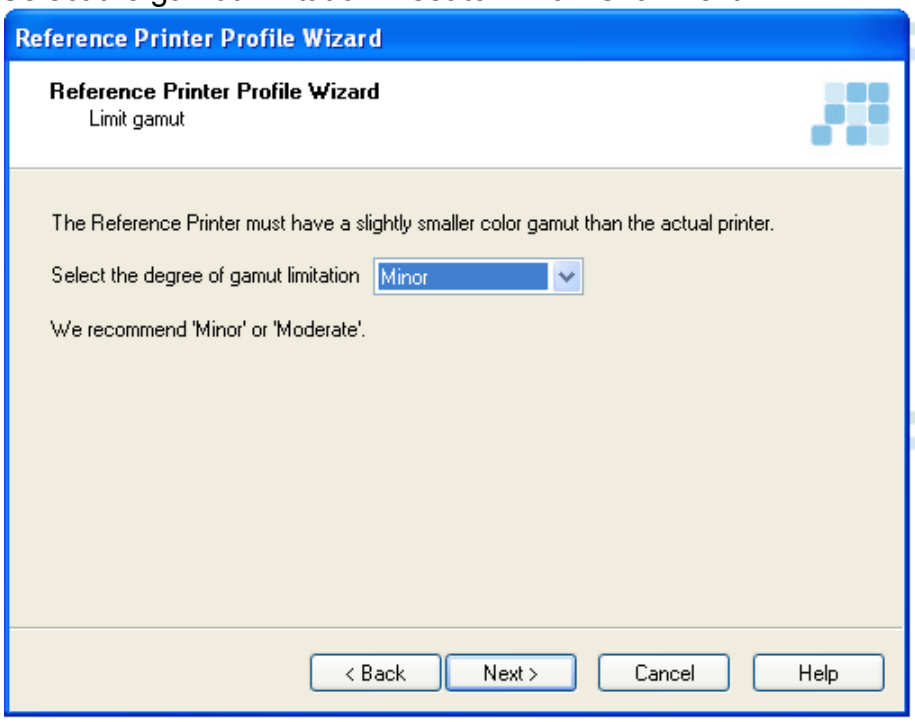
44. The chart will be printed on your inkjet printer. Cut chart along dotted lines.
45. Select "*I want to measure the profiling test chart*" and click *Next*.

46. Click *Start Measuring*. (Be sure that you have the appropriate measuring device selected and the right chart).

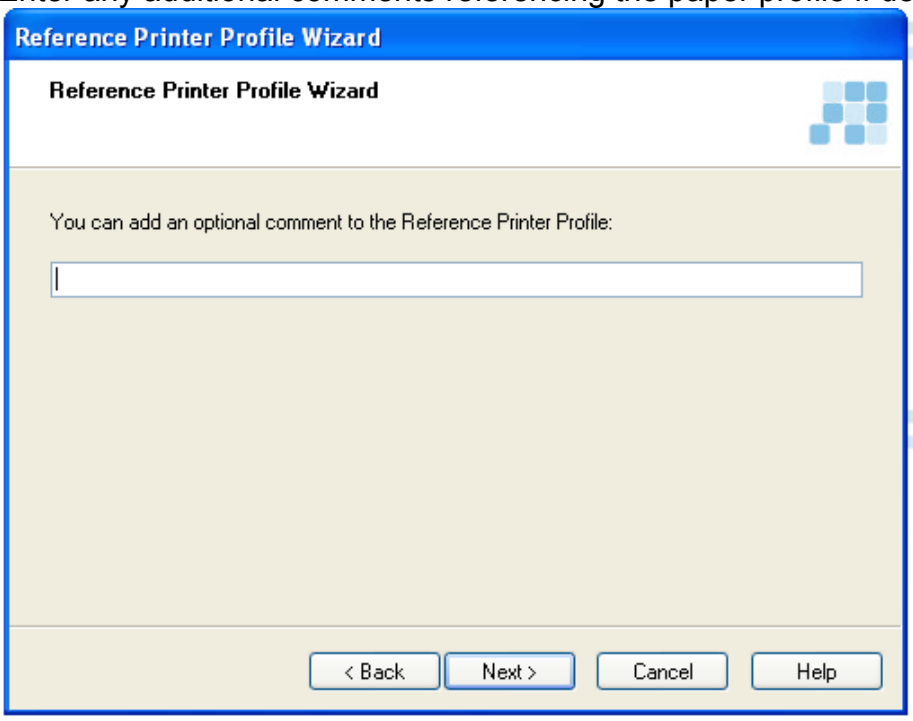


47. Once the chart has been measured, click Save.
48. Save the measurement file in the Master RPP folder as well.

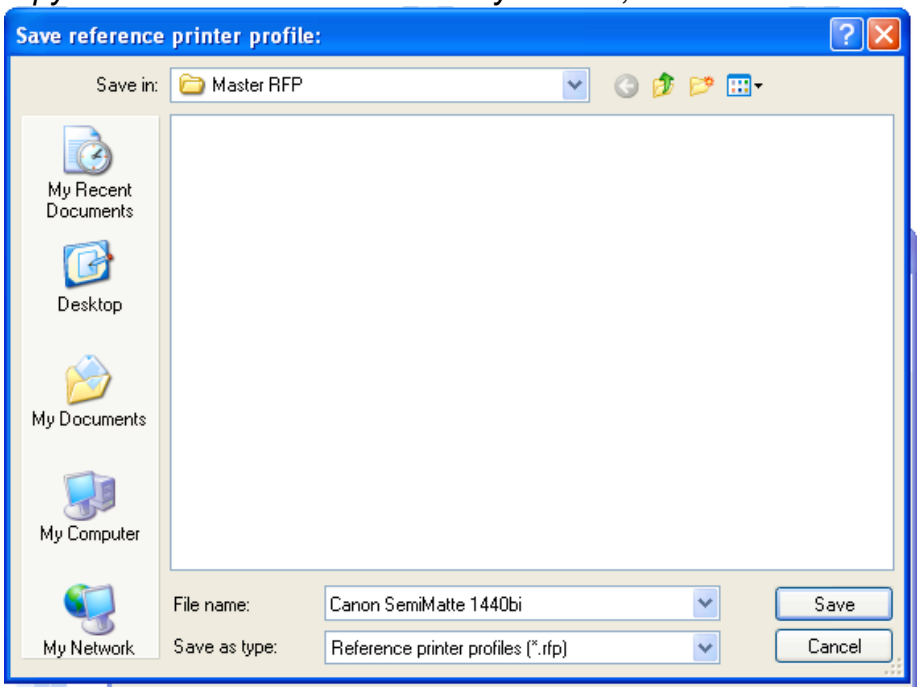
49. Select the gamut limitation – set to *Minor*. Click Next.



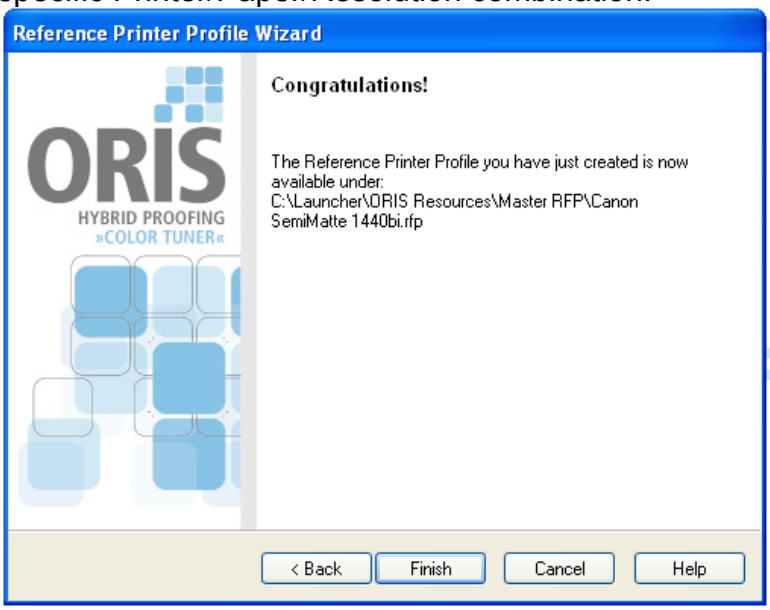
50. Enter any additional comments referencing the paper profile if desired.



51. Save the RPP in the Master RPP folder. *Note – by default, the wizard will try to put the RFP in the ORIS Color Tuners ICC profile folder. You can copy this file there at a later time if you want, but is not needed.*



52. Your have now created a new Reference Printer Profile based on the specific Printer/Paper/Resolution combination.



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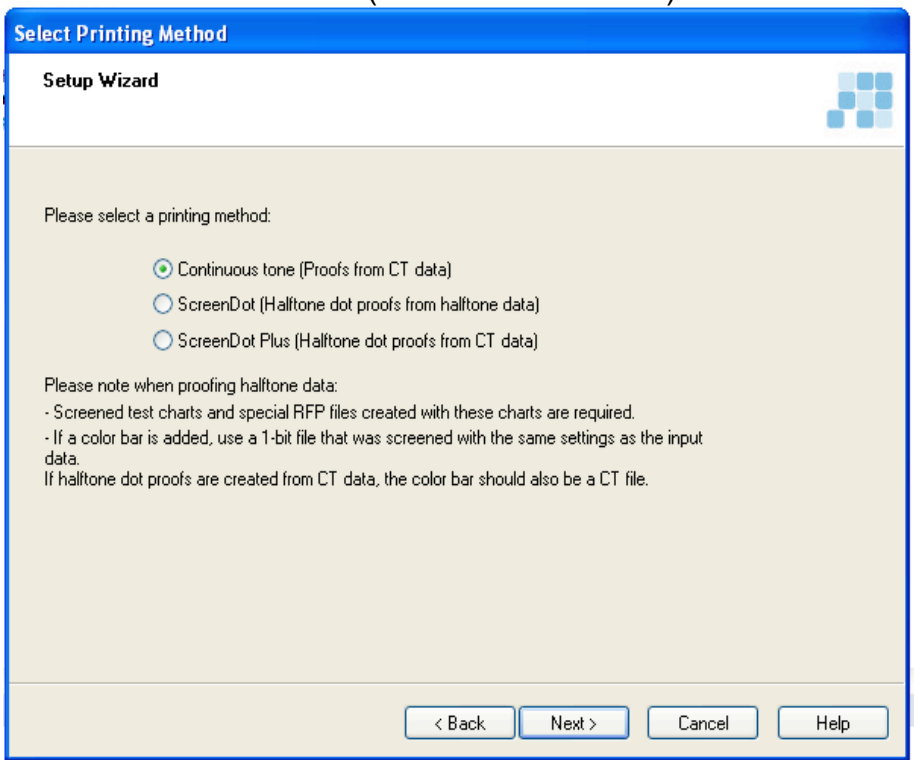
ADDING A NEW PRINTER

53. Assuming the ORIS Color Tuner Web is already running, Click the *Add Printer* button to start the wizard.

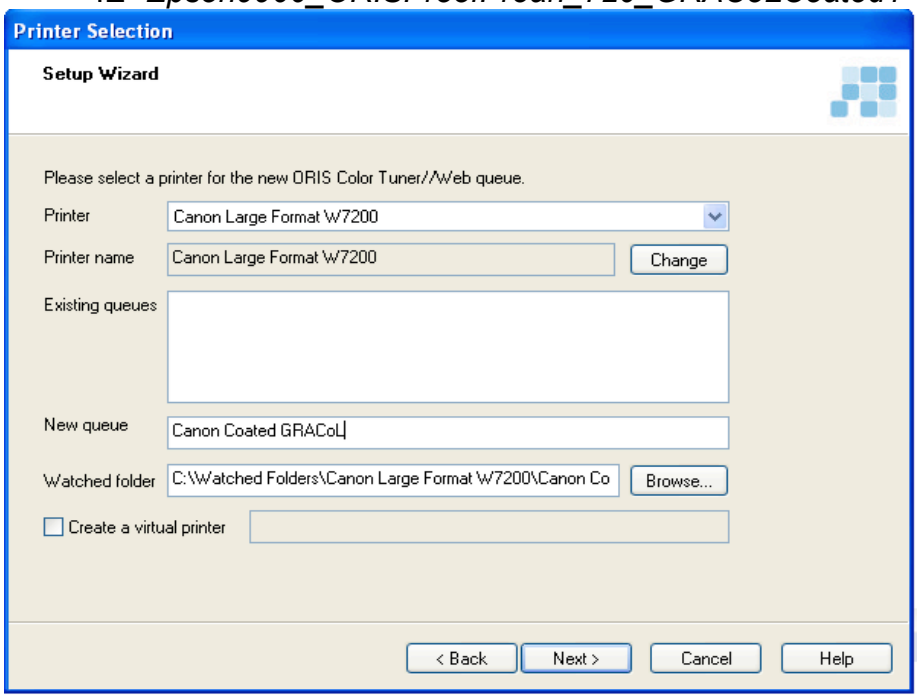
54. Click Next.

55. Click on continuous Tone (Proofs from CT data)



56. Click Next.

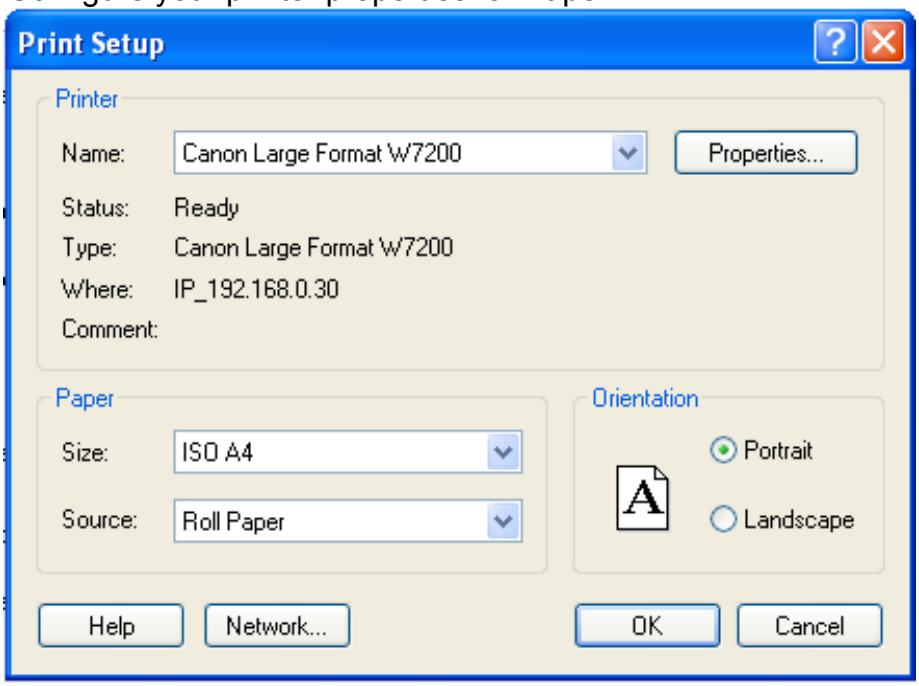
57. Configure the queue for the intended output
    a. Select the windows printer from the “Printer” pull down.
    b. Enter the name of the new queue. Note – be sure to include the name of the printer, paper used, resolution, and color simulation.
    IE- *Epson9900_ORISProofPrearl_720_GRACoLCoated1*



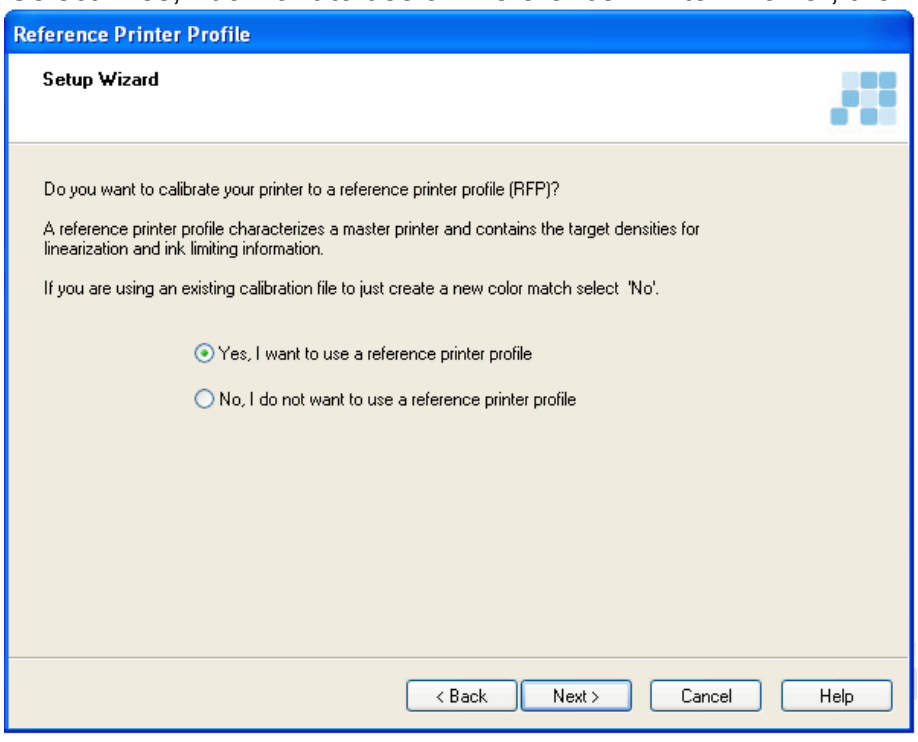
58. You can redirect the watched folder to another location. The default location is on the “C” drive and will need to be shared for users to drop files to this location.

59. Click Next.

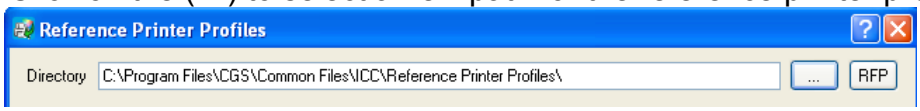
60. Configure your printer properties for Paper.



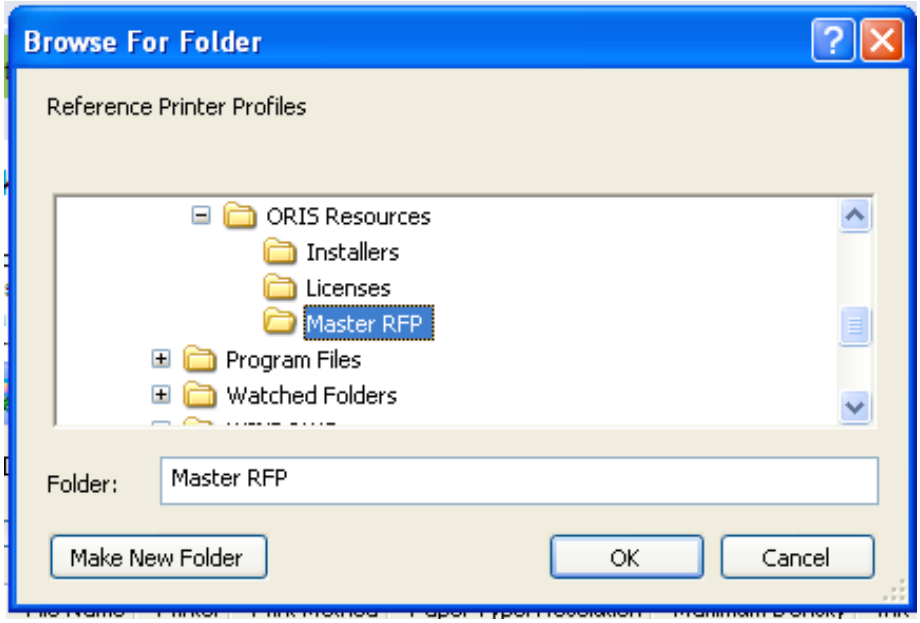
61. Select “Yes, I do want to use an Reference Printer Profile”, then Next.



62. Click on the (…) to select a new path for the reference printer profile.

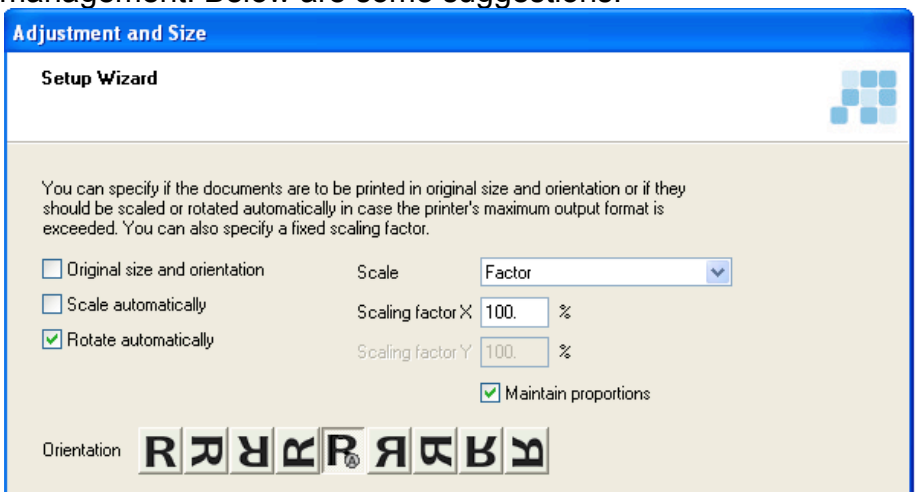


63. Redirect to the Oris Resources>Master RPP folder on the desktop.



64. Select the RPP created during the previous step #51. This RPP should be specific to the Printer/paper/resolution you want. Click OK.

65. The next few windows you will configure general settings for file management. Below are some suggestions.



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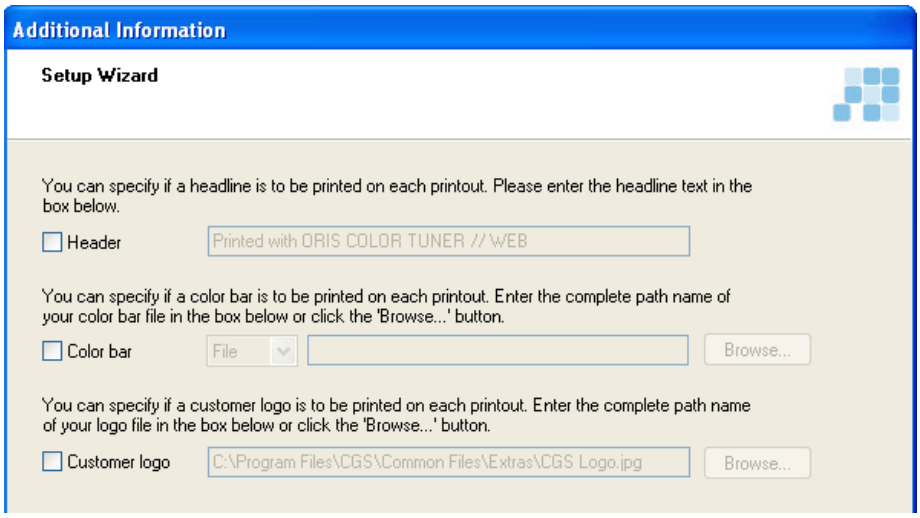
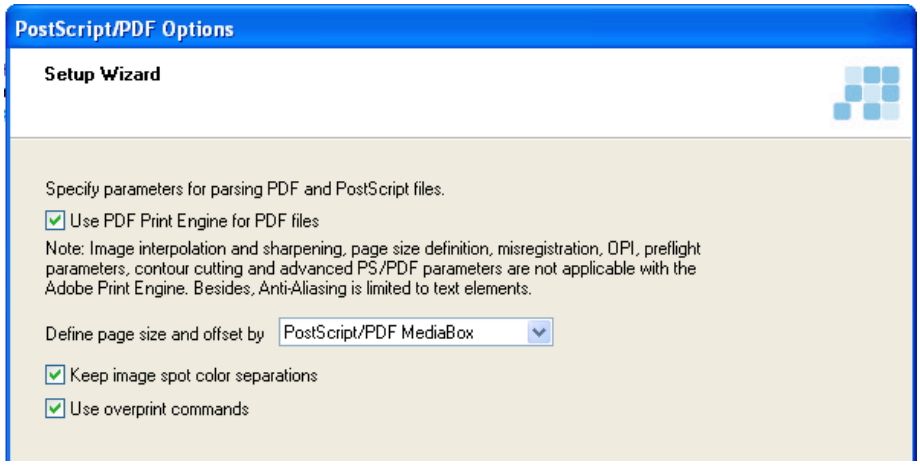
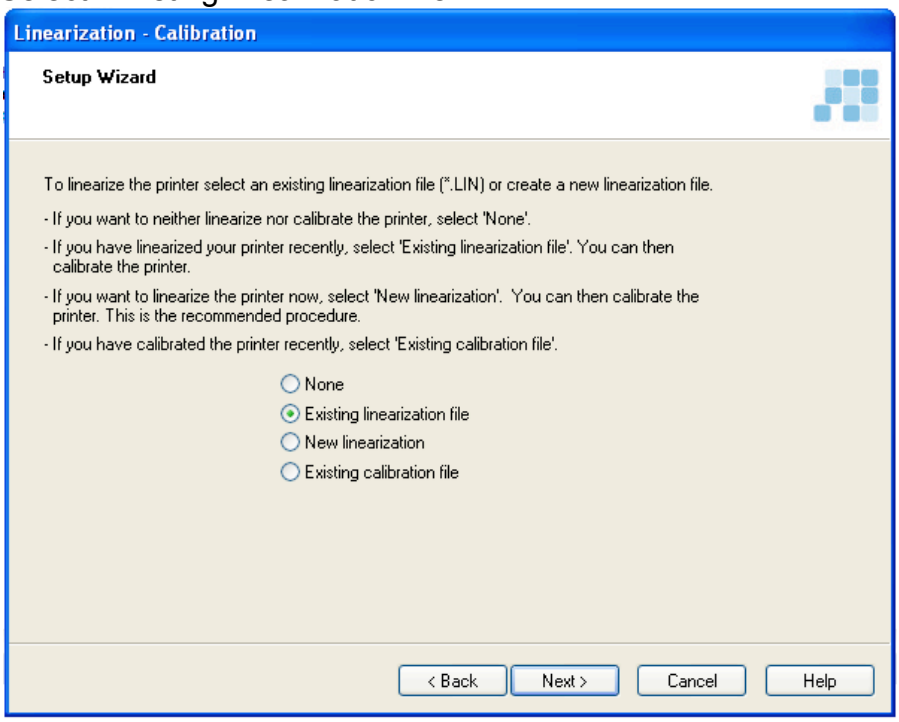
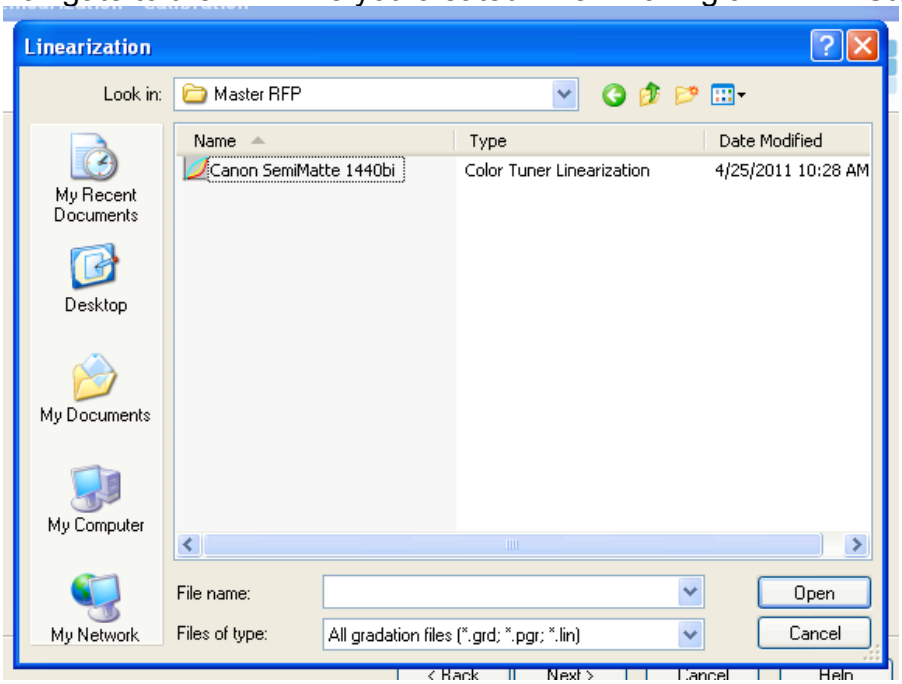




66. Select “Existing linearization file”.

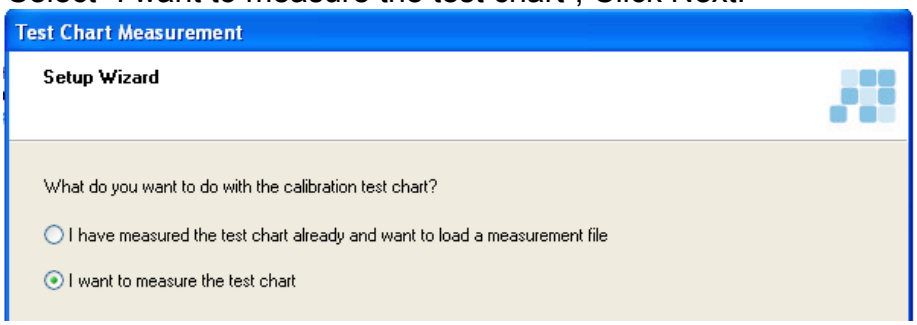


67. Navigate to the “.Lin” file you created when making an RPP. Step #38

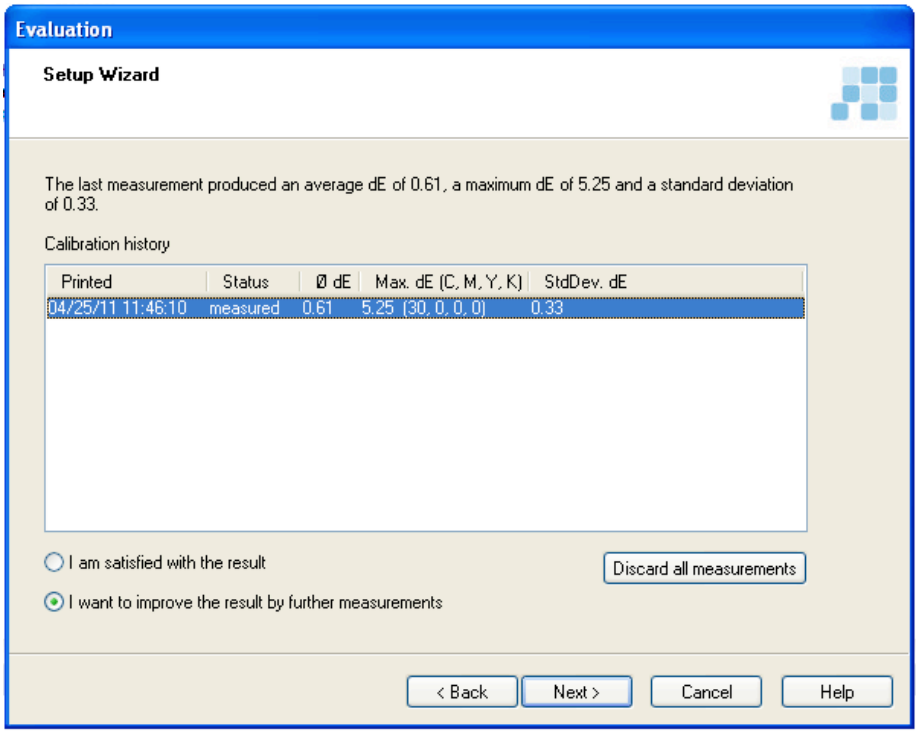


68. Once a .Lin file has been selected, you will print the ECI2002 profile chart. Cut out the printed chart along the dotted line.

69. Select “I want to measure the test chart”, Click Next.



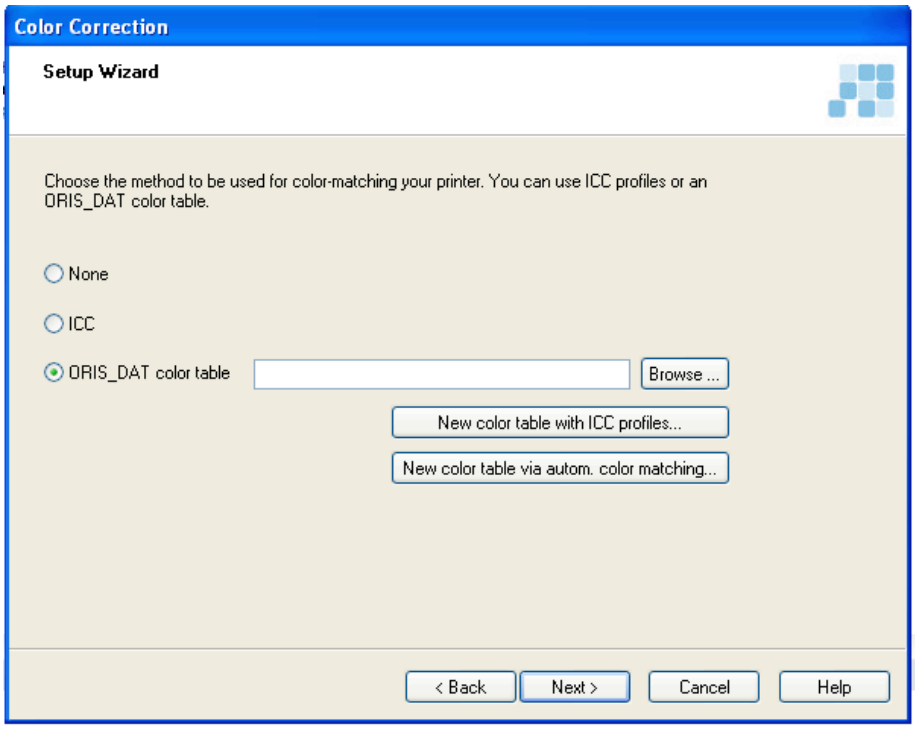
70. Once the chart is measured, your results should be as follows:
    Average Delta should be below a 1.0
    The Max delta should be below a 5.0



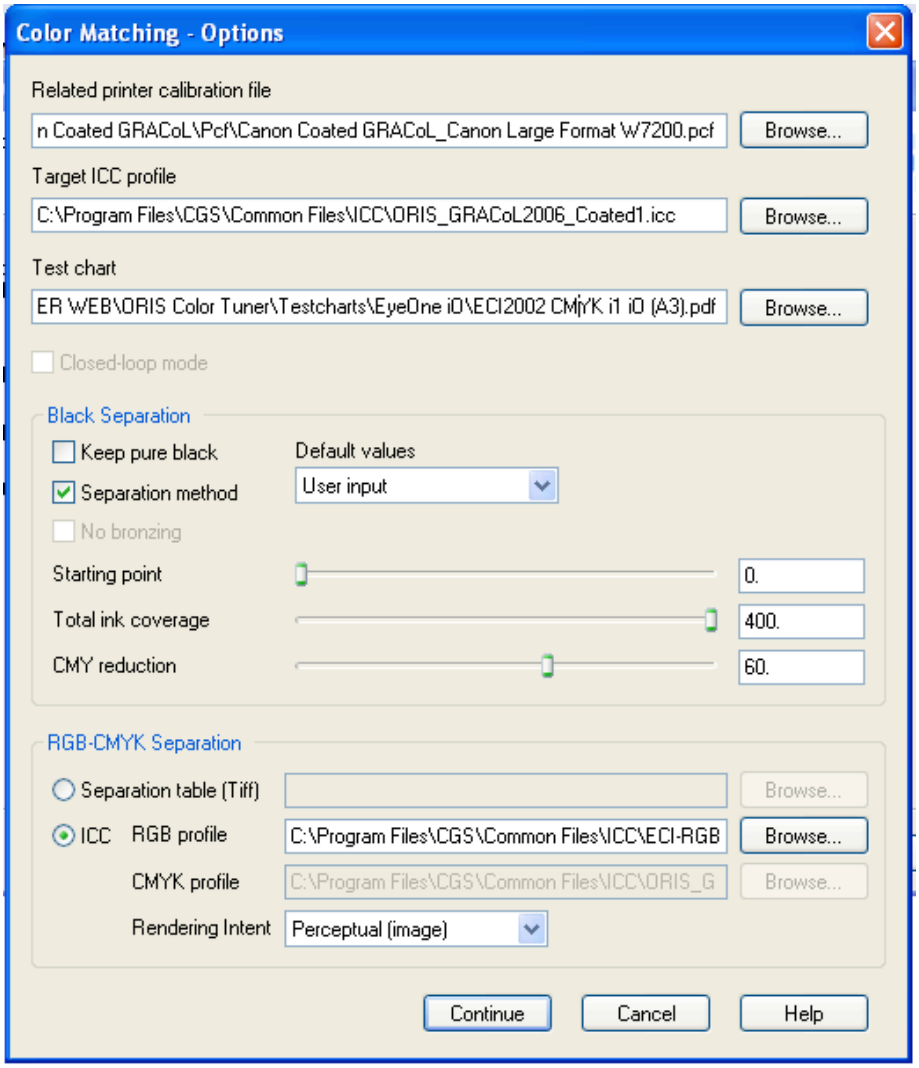
71. If the results are satisfactory, then select “I am satisfied…”
    If the results are not satisfactory, then select “I want to improve….” This will output another corrected ECI2002 chart.

72. Click Next

73. Next you will create a new Color Match. Select “ORIS_DAT color table”.
74. Then click “New color table via autom color matching”
75. Click Next.

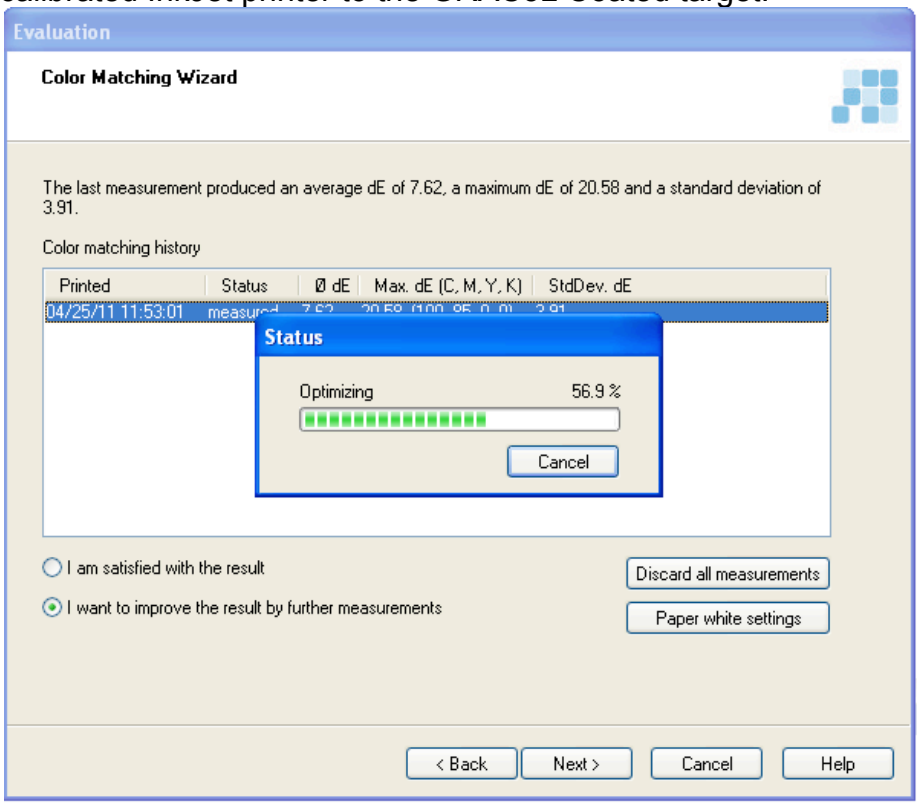


76. Select the color configuration you want to create.
    a. The Related printer calibration file: this should already be selected from the previous process. This path should point to: Program Files\CGS\Common Files\CTunerSetups\...PCF\...
    b. The Target ICC profile: Click on Browse and select GRACoL2006_Coated1 from the list.
    c. Test chart: This should be the ECI2002 CMYK for your measurement device.



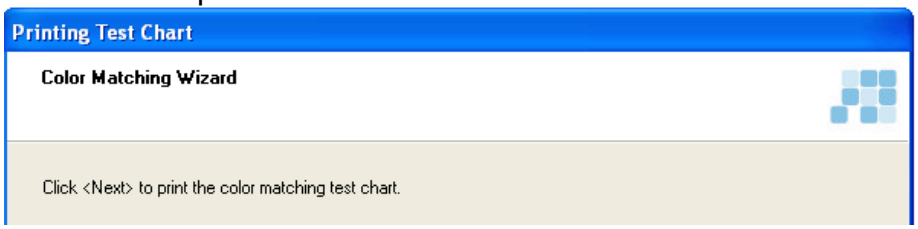
77. Click Continue.

78. The Color Matching Wizard will calculate the first comparison of the calibrated InkJet printer to the GRACoL Coated target.



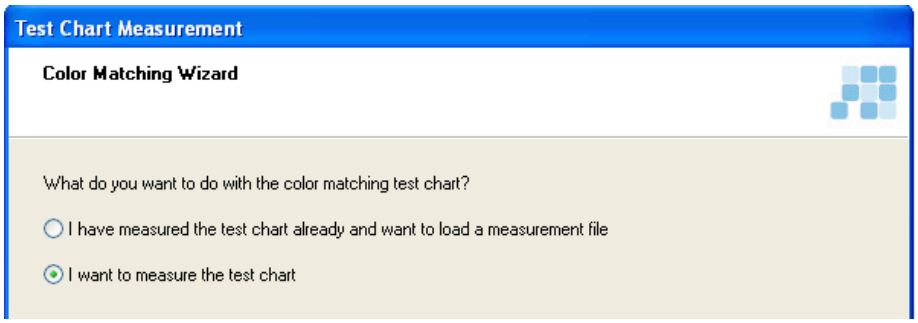
79. Click on Paper white settings and set CMYK all to 0%. Click OK

80. Click Next to print the chart.



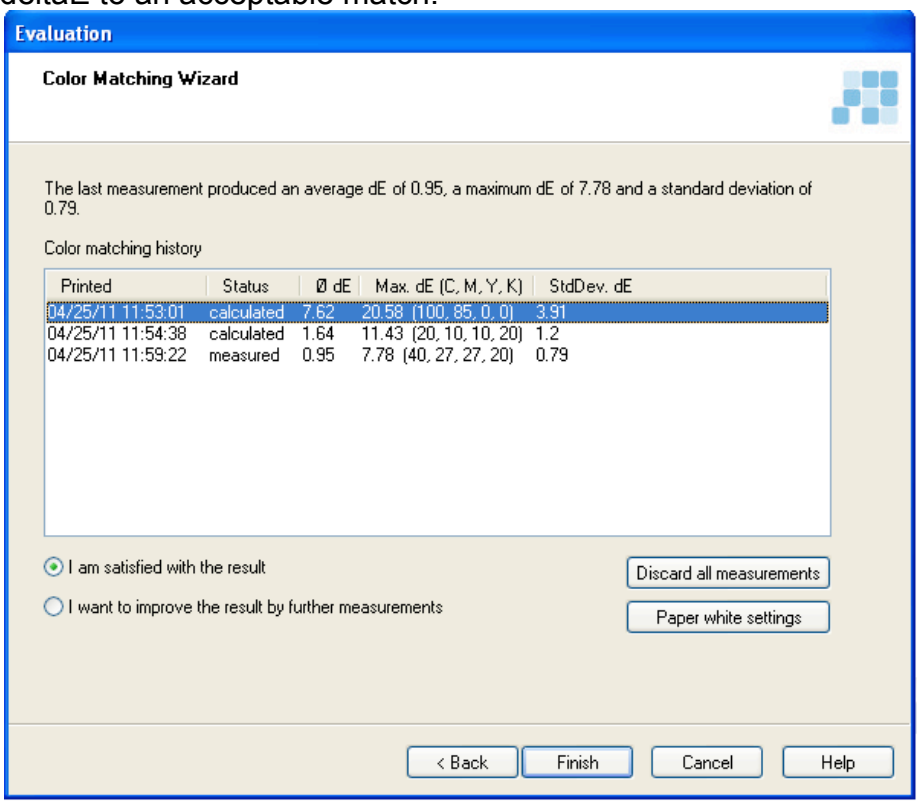
81. ORIS Color Tuner Web will print the ECI202 chart to your printer. Cut out the chart along the dotted lines.

82. Select “I want to measure the test chart”. Click Next.

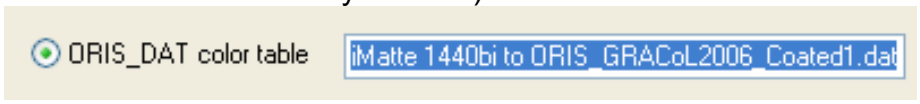


83. Measure the chart.

84. Once you have achieved the desired results, select “I am satisfied with the result”. This may take multiple iterations to lower the average and Max deltaE to an acceptable match.

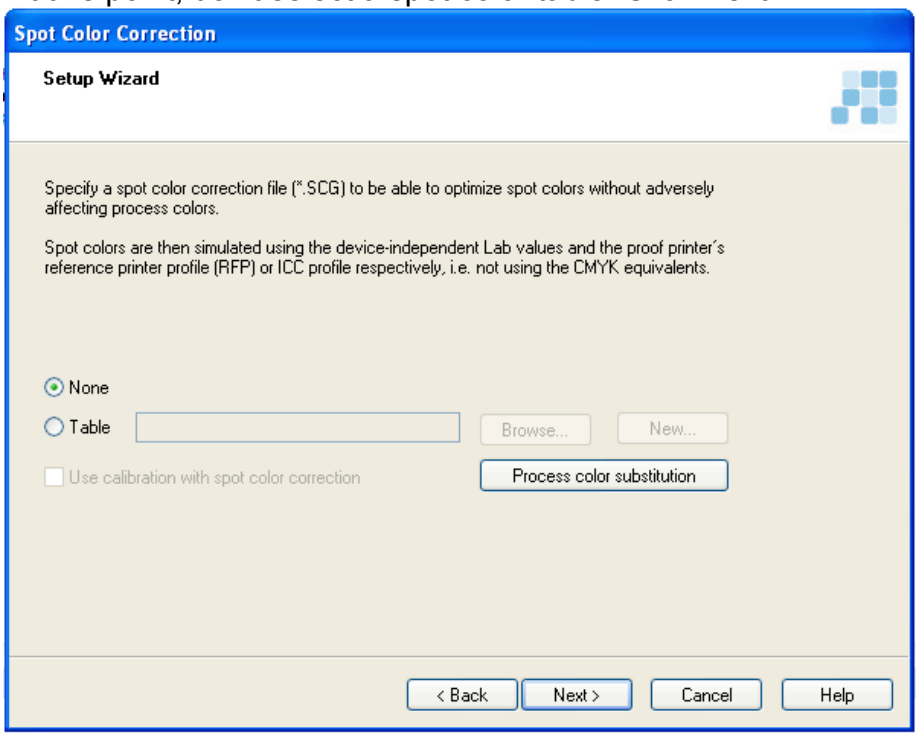


85. Click Finish.
86. You will be asked where to save the new ORIS DAT file.
    Save the file in the following location:
    Program Files\CGS\Common Files\CTunerSetups\...(Setup name)\CMF\
    (Note – you will need to create a CMF folder inside the setup folder the wizard has automatically created).

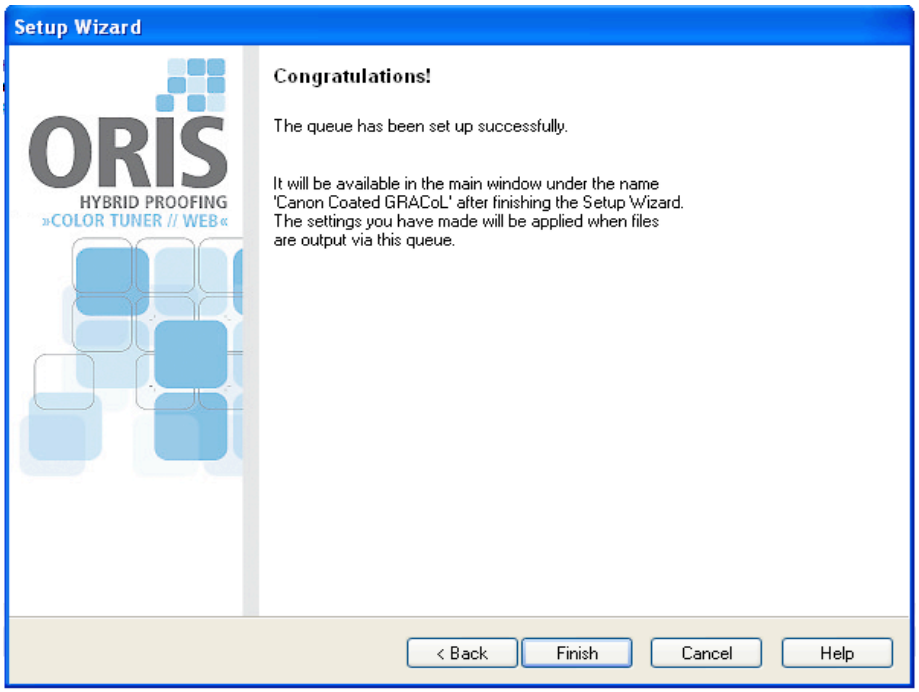


87. Click Save.

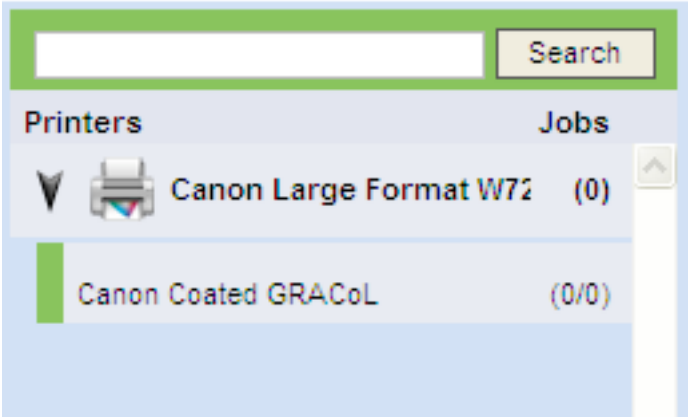
88. At this point, don't select a spot color table. Click Next.



89. Click Finish.

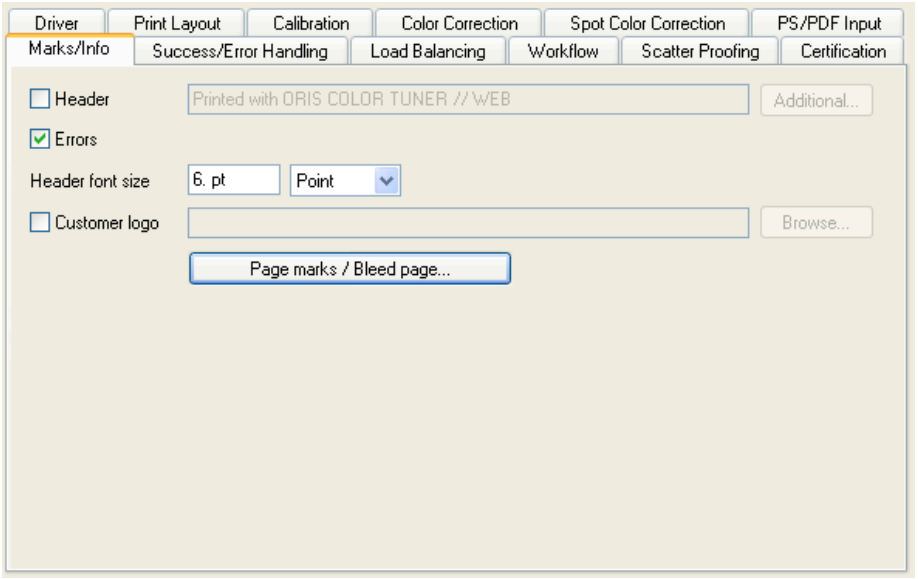


90. Back in ORIS Color Tuner Web main window, select the newly created printer queue under the printers list. (You may need to expand the selected printer).



91. Along the tool bar at the top select the “Settings” button.

92. Configure the print queue with the following settings. (these are suggestions and can be changed to suit specific needs).

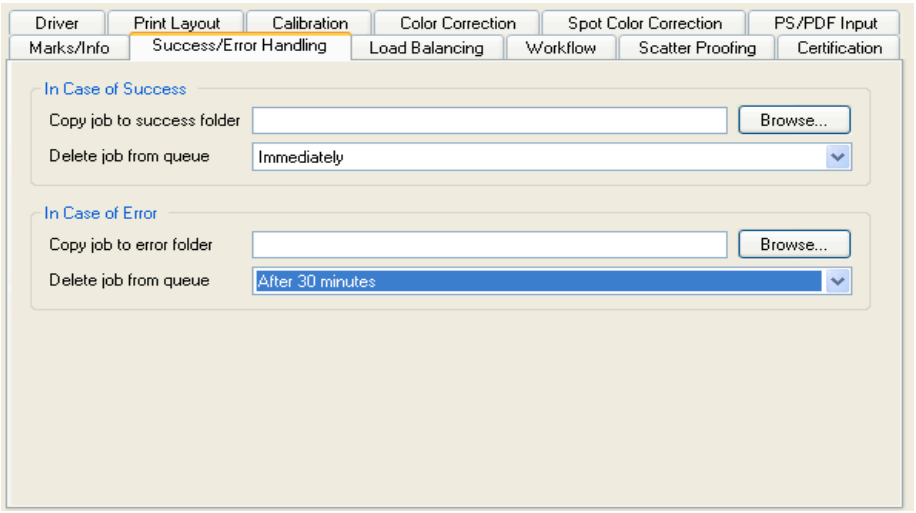


FUJIFILM

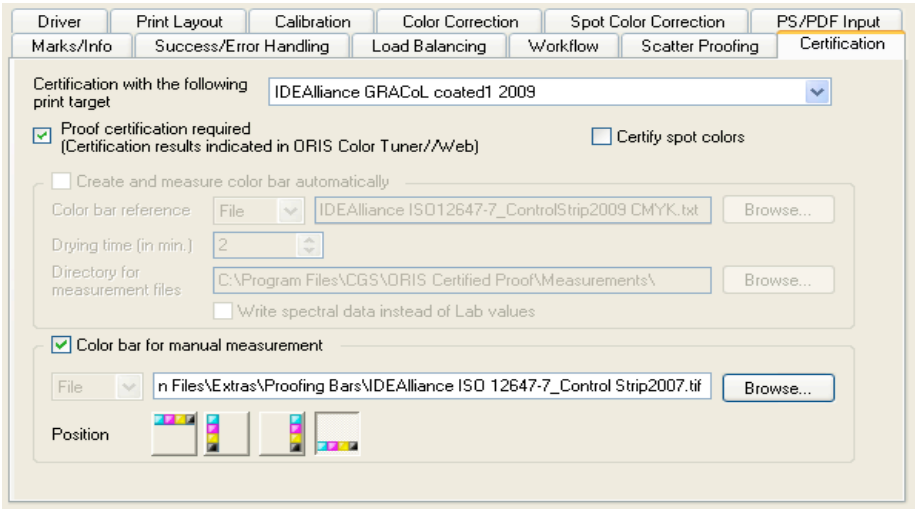
TECHNICAL NOTE

☒Software ❍Hardware

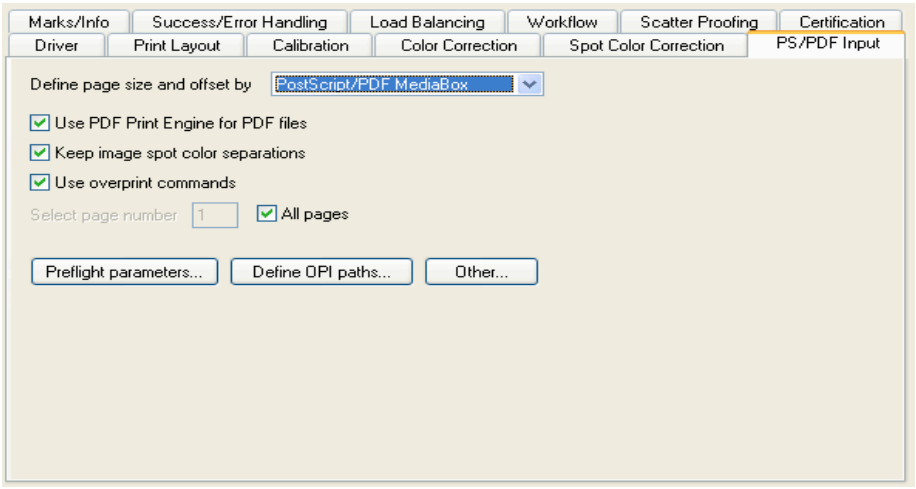
93.



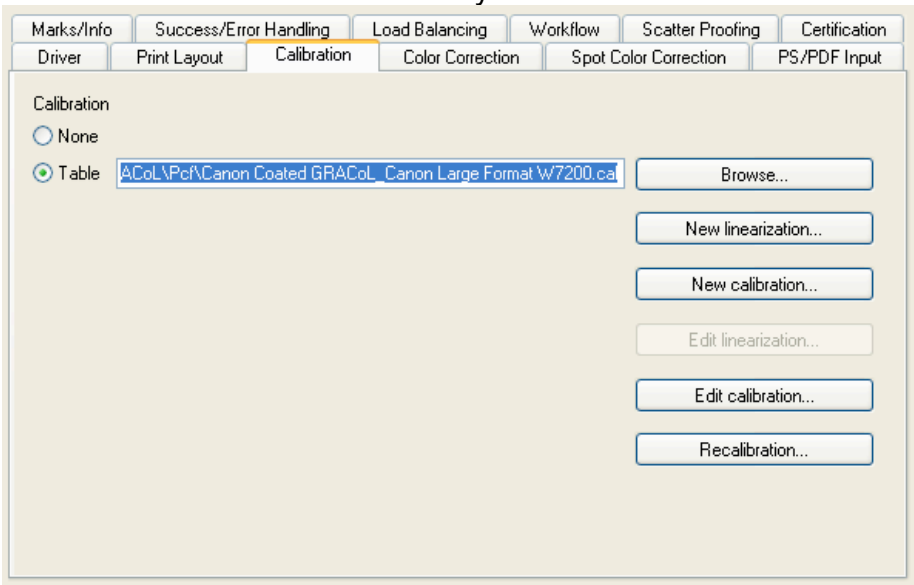
94.



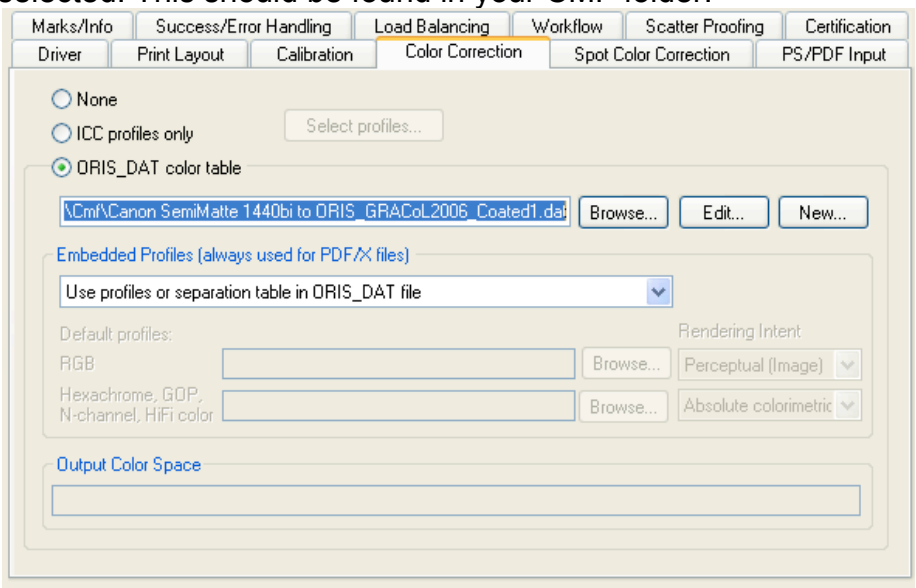
95.



96. Select the Calibration tab and be sure that the proper ".cal" file is selected. This should be found in your PCF folder.



97. Select the Color Correction tab and be sure that the proper ".dat" file is selected. This should be found in your CMF folder.



98. Additional configurations can be made at the users discresion.