KODAK Proofing Software
A simple path to consistent color

Creating Proofer Profile in KPS Matchprint Inkjet Software

When do you need a Custom Proofer Profile?

After creating a custom media configuration, you will also need to create a custom proofer profile, sometimes called a paper profile.

For information on Creating Custom Media Configurations for KPS MPI Software:
https://workflowhelp.kodak.com/display/MPI82/Startup+Assistance+for+Custom+Media+Configurations

How long does it take?

Creating a custom proofer profile, can take 1-2 hours, depending on the type of spectrophotometer you have.

If you are using a printer with an inline spectrophotometer, all the steps can be automated.

If you are using an offline spectrophotometer, additional active participation is required to measure charts.

When creating a custom proofer profile, a profile chart will be printed for measurement.

For most supported spectrophotometers, the profile chart contains 2 pages; except for the iSis, which only has one page.

How do I prepare?

- Load the proper media into the printer, ensuring that you have enough media to complete the process—including calibration and creating a Media Configuration.

- Ensure that you have an adequate supply of ink.

- Run the inline spectrophotometer alignment procedure.

- Run a nozzle check test, and clean if needed.

- If your printer has been idle for a long time, or is newly installed; it is recommended to "warm-up" the printer first. Run a series of fully inked proofs for a day or two; perform normal head cleaning cleaning cycles at the start and end of each day, and as needed. Verify that a nozzle check shows all nozzles printing at various times throughout the day. If nozzle performance is intermittent; continue the "warm-up" for another day.
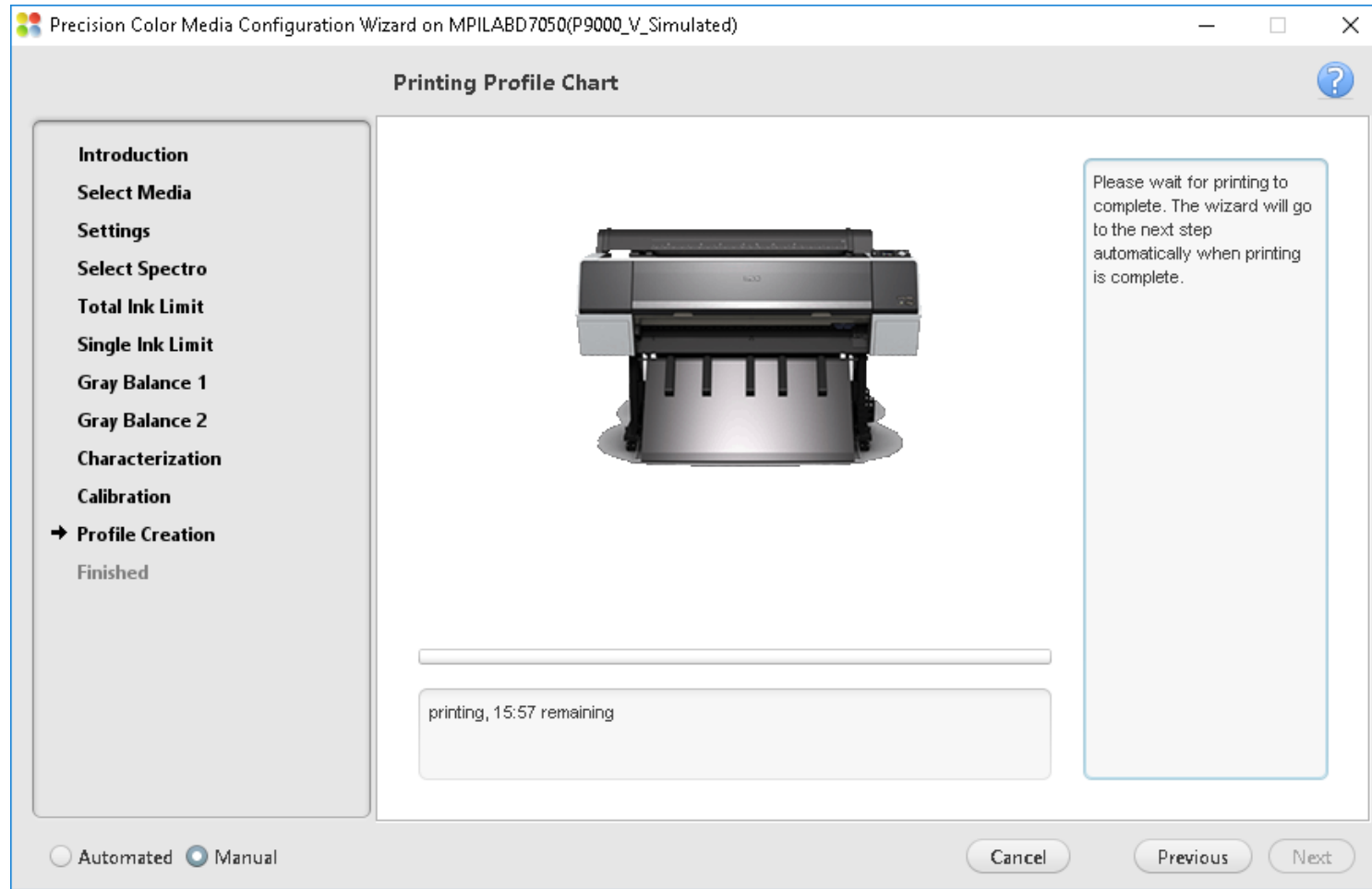
Step 1: Introduction
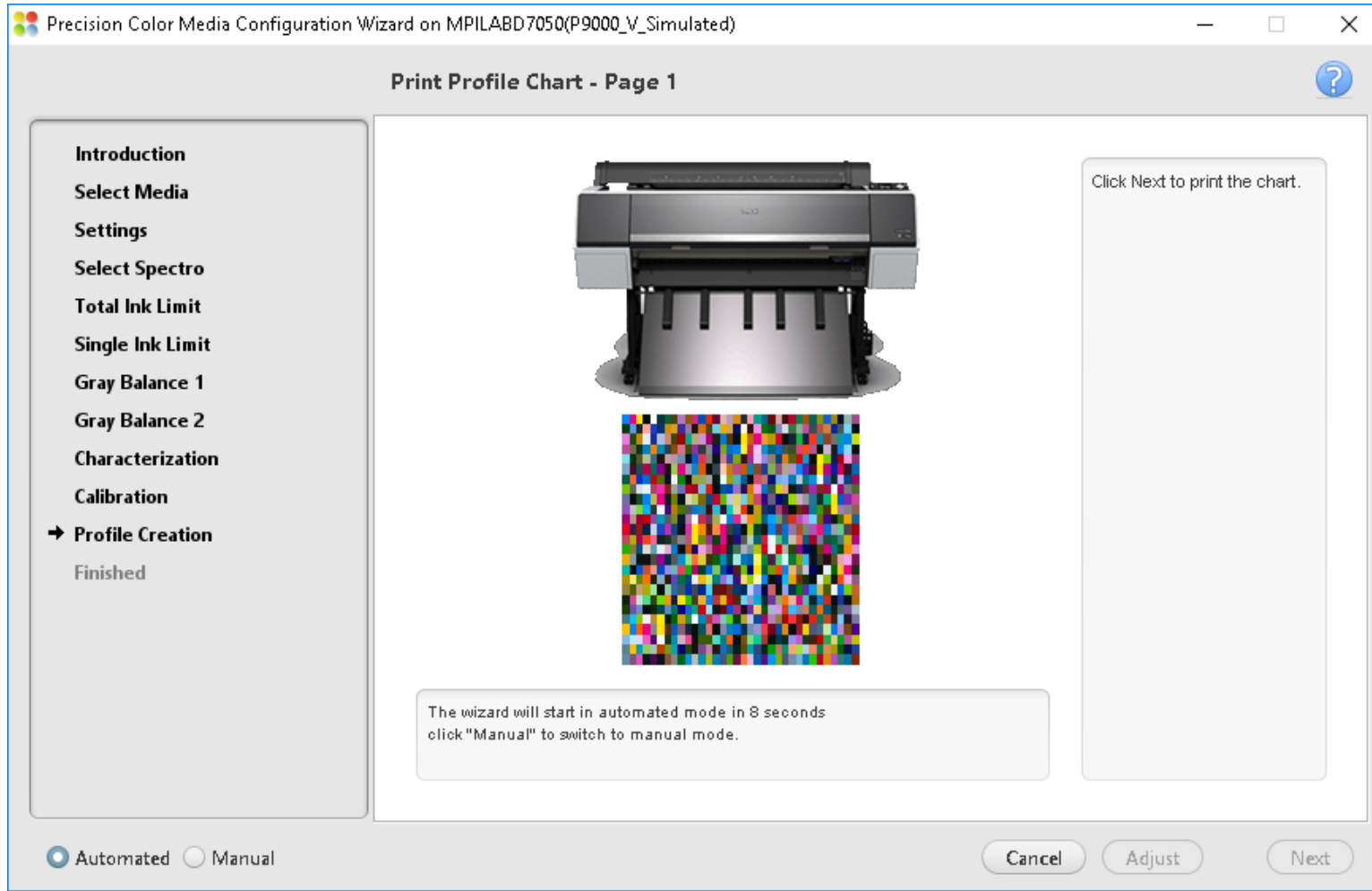
This presentation uses an Epson printer equipped with the SpectroProofer inline spectrophotometer option (which can be an automated process) as an example. The steps are similar for other printers.
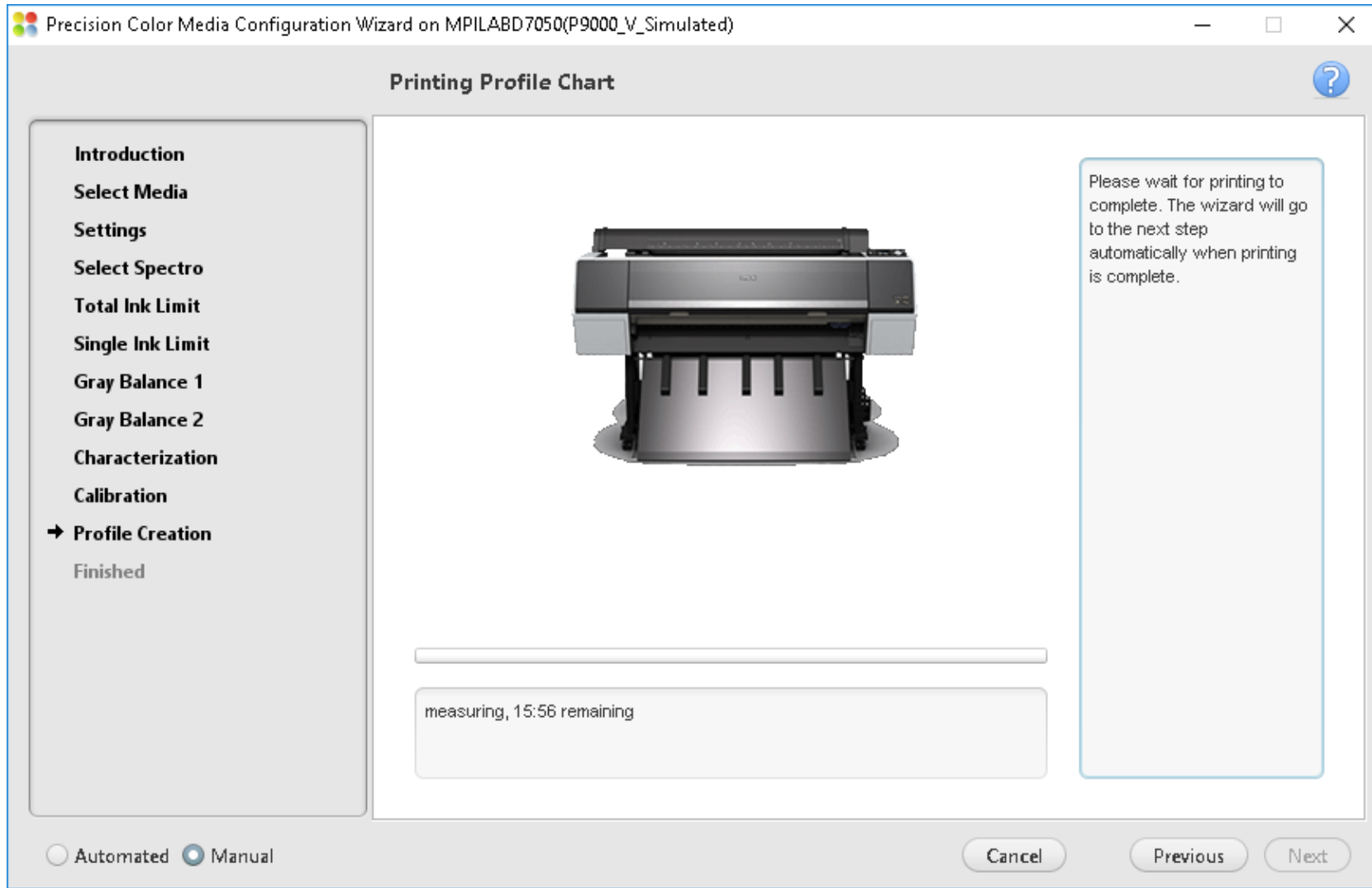
Step 1: Printing Profile Chart – Page 1

Wait for the printing to complete.

The wizard proceeds to the next step automatically when printing is complete.
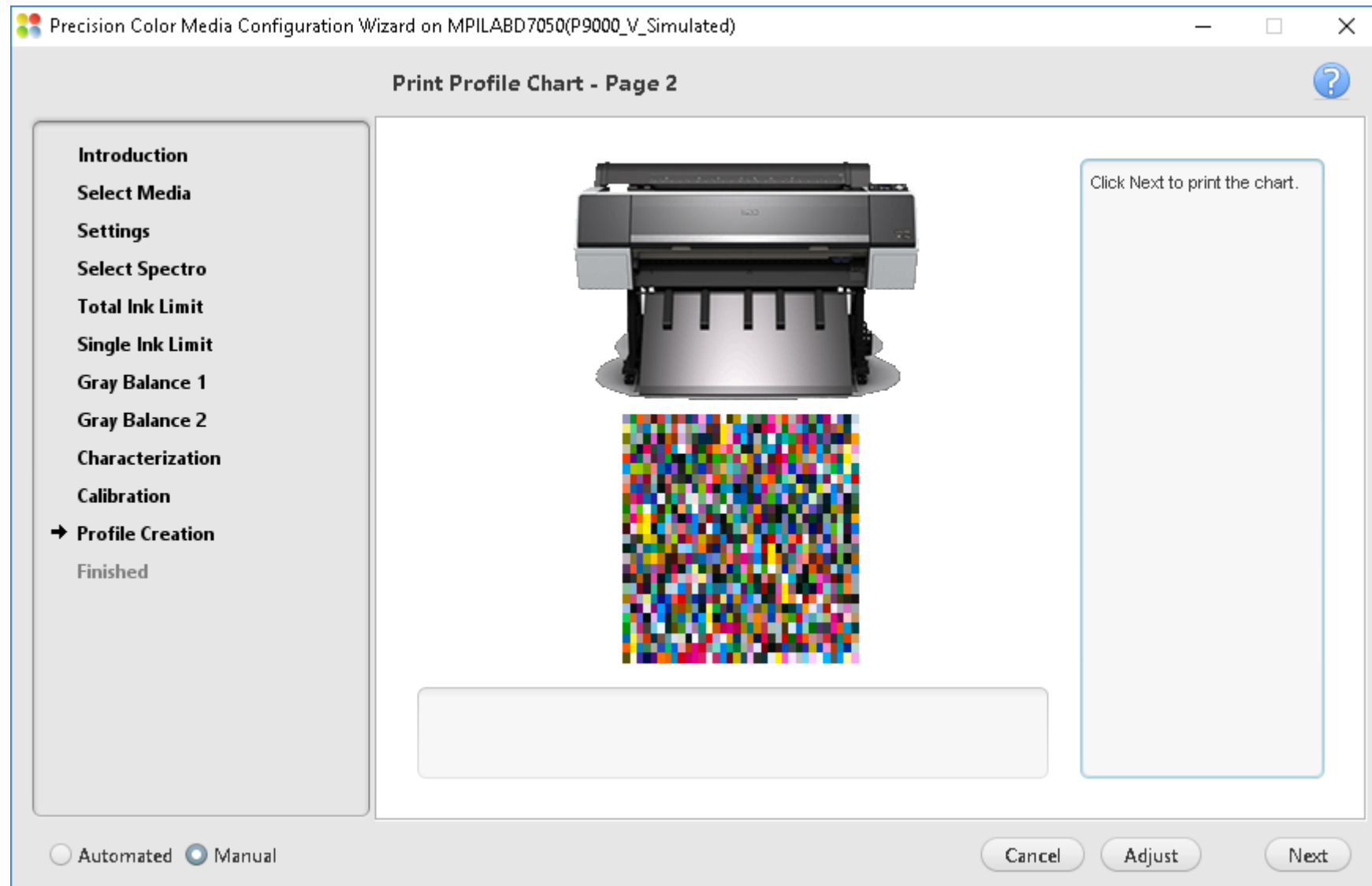
Step 1: Measure Profile Chart – Page 1

After the proof is dry:

It will be measured with the inline spectrophotometer.

Step 2: Print Profile Chart – Page 2

Step 2: Printing Profile Chart – Page 2

Wait for the printing to complete.

The wizard proceeds to the next step automatically when printing is complete.
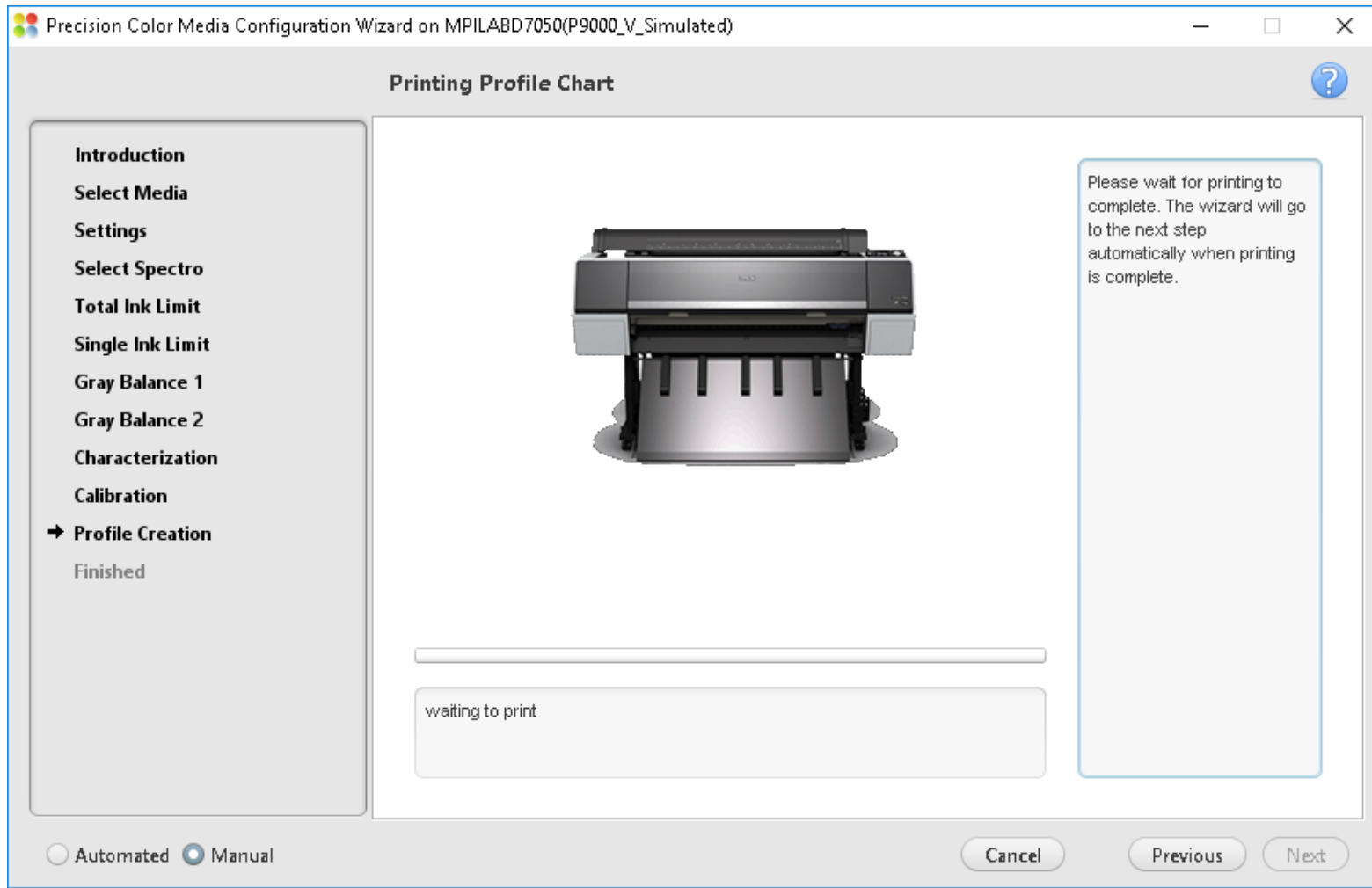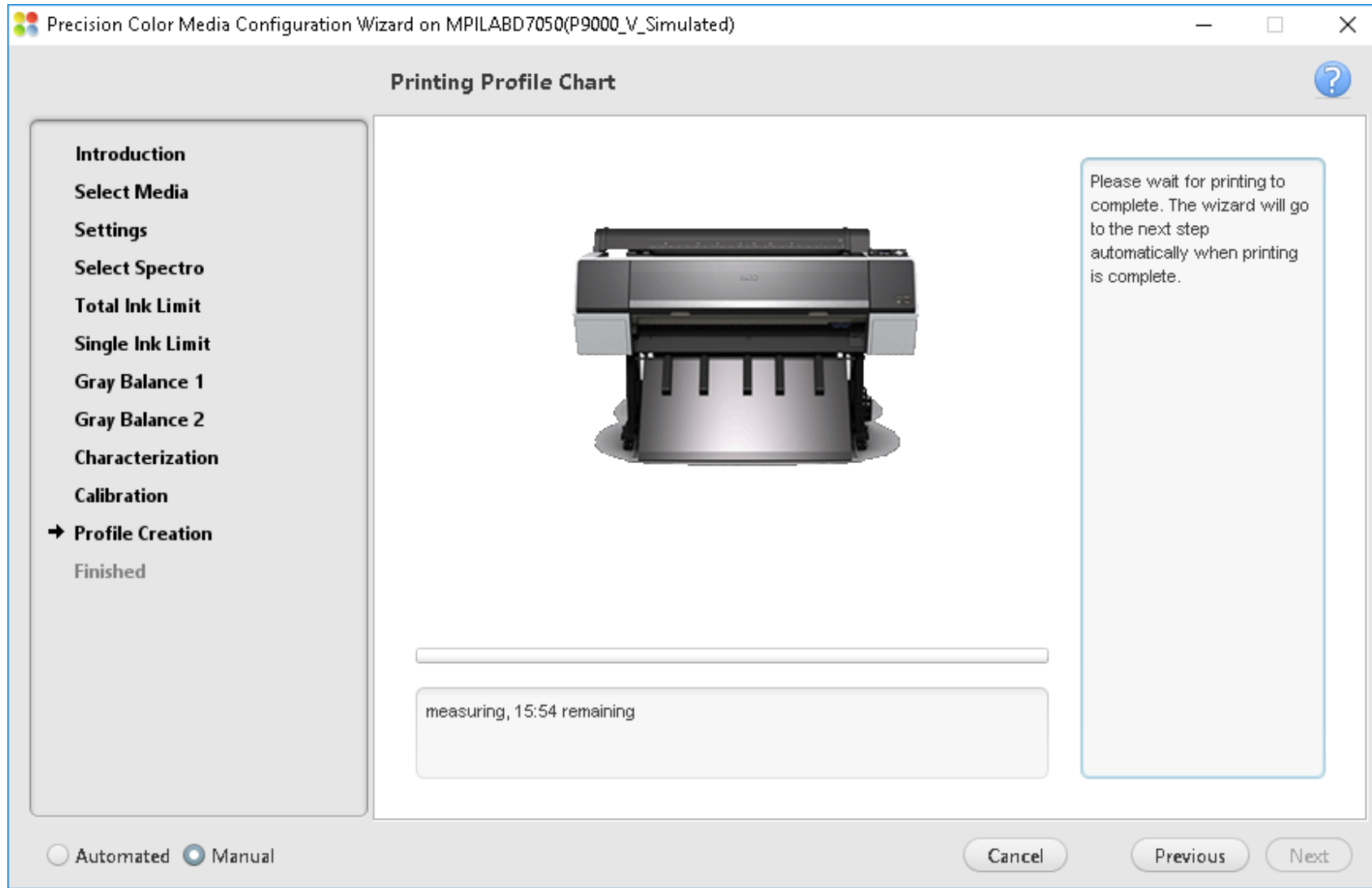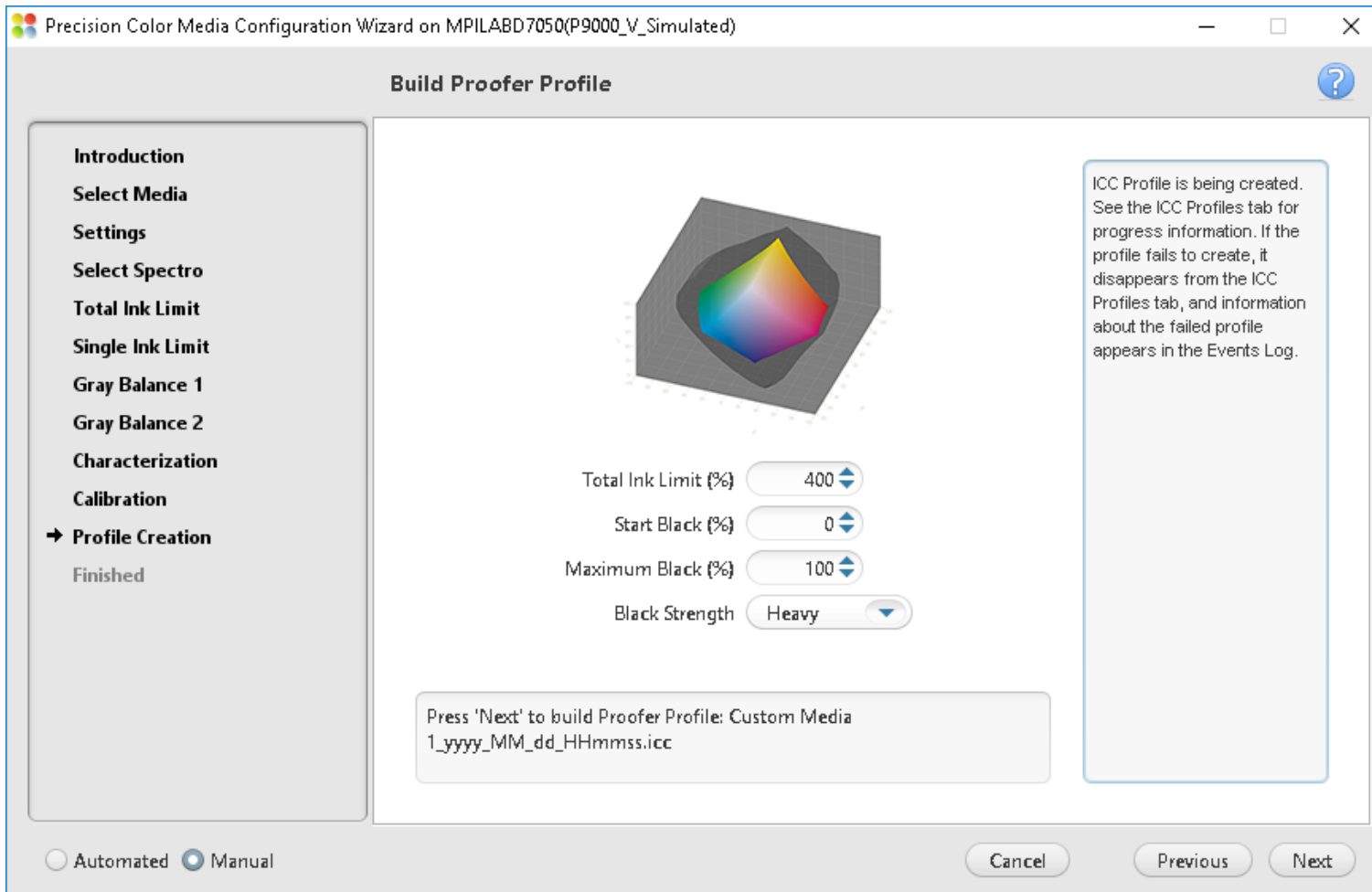
Step 2: Measure Profile Chart – Page 2

After the proof is dry:

It will be measured with the inline spectrophotometer.

Step 3: Build Proofer Profile

- **Total Ink Limit:** Specify the maximum sum of tint values of all the inks

- **Start Black**: Specify the start point on the neutral axis for black ink. For example, if you set the start point value to 20%, tones less than 20% will print with CMY inks only

- **Max Black**: Specify the maximum allowable percentage of black ink used in the black separation

- **Black Strength:** To specify the relative quantity of black vs cyan, magenta, and yellow used to generate the neutral gray component of colors. As you increase the strength, colors can contain more black.

Note: The default values are recommended for all media types

Step 3: Congratulations!
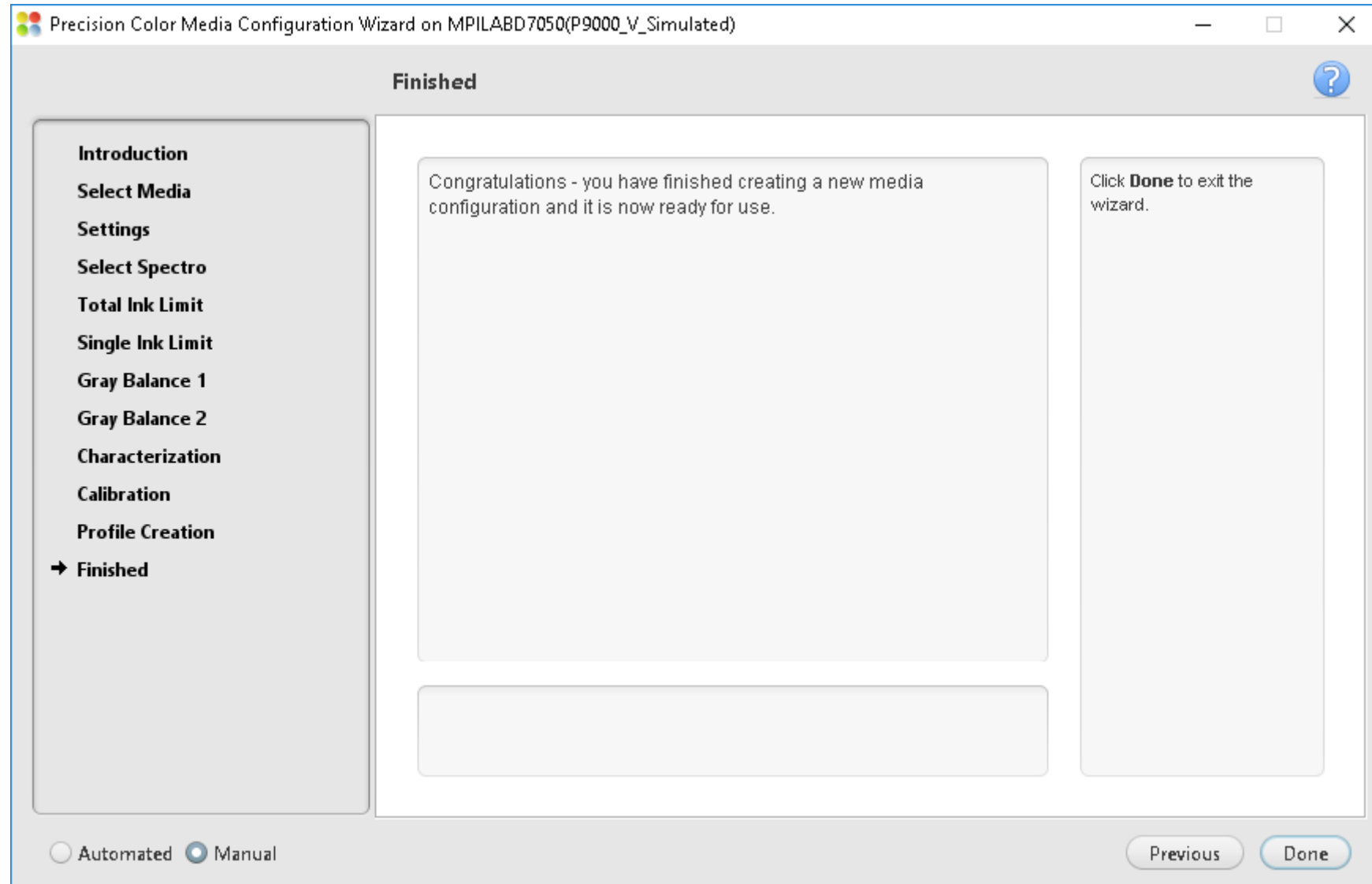
Where is the Proofer Profile located?

Go to the Kodak Proofer Administrator

1. Select your Proofer by its name on top

2. Select the "ICC Profiles" Tab

3. The Proofer Profile will be in the list

Note: The proofer profile is automatically signed for Certified Process for Color Confirmation

Creating DeviceLink Profiles in KPS-MPI

* Requires a KPS-MPI Commercial or Packaging license

ICC DeviceLink profiles are a powerful application of the mathematics of device profiles. They effectively combine two device profiles to create a one-way link with a single rendering intent, and can be used to align color on different output devices.

A DeviceLink uses a color lookup table to transform CMYK input values in the source color space to CMYK output values in the destination color space.

Step 1: Create new DeviceLink Profile
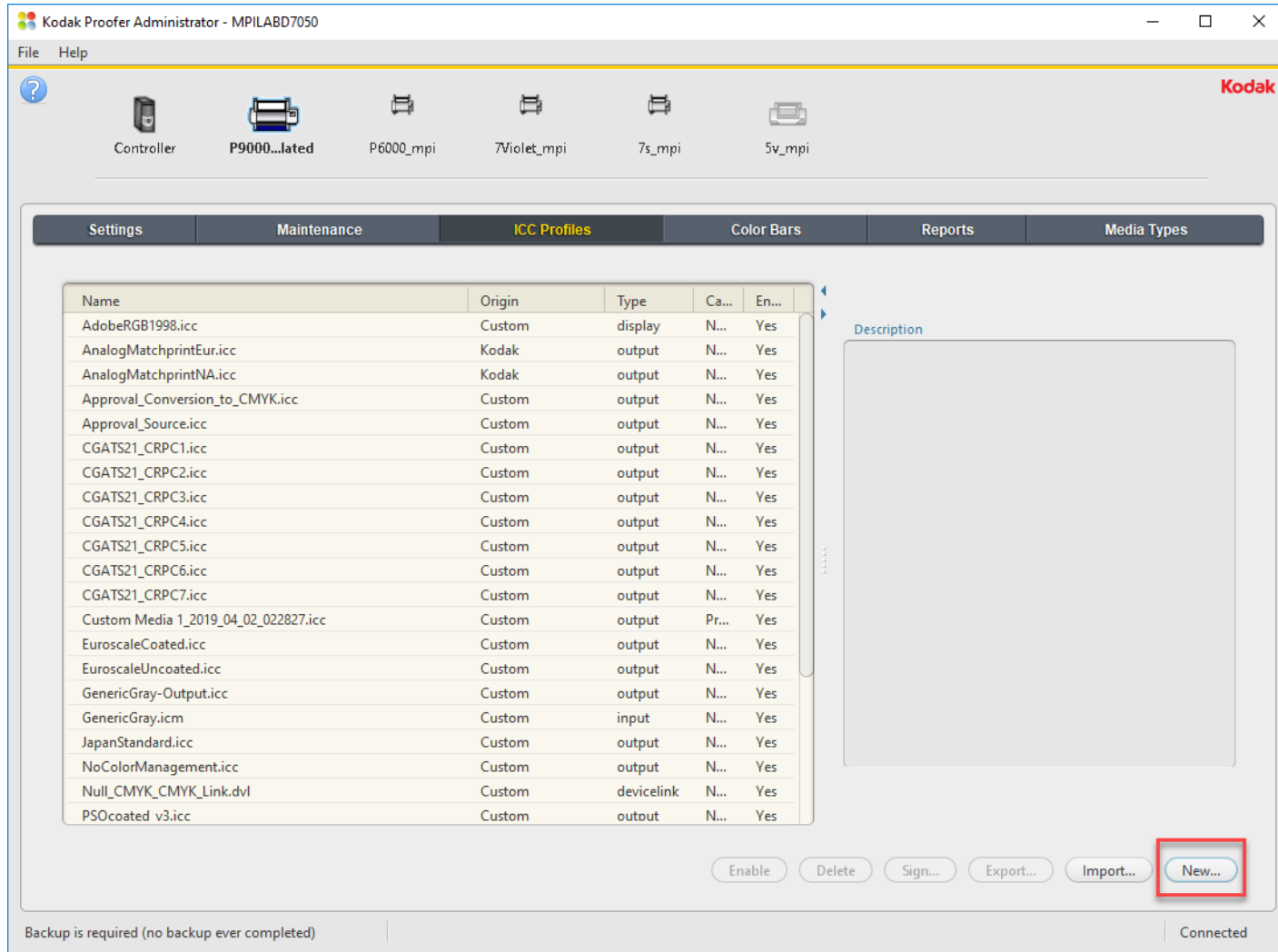
Launch the Kodak Proofer Administrator:

1. Select the Proofer
2. Select the ICC Profiles Tab
3. Click on New

Step 1: Create Simulation DeviceLink Profile Dialogue Box

Step 1: Simulate

Simulate option	Press characterization data
No Highlight Bump	Select characterization data that reflects a press run without flexographic highlight dot adjustments.
Highlight Bump	Select characterization data that reflects a flexographic press run with plates imaged for a highlight bump. For the best results, the characterization data should reflect the number(s) that you type in the Minimum Dot on Plate (%) area in the Cyan, Magenta, Yellow, and Black boxes. For example, type 8.0 in the Minimum Dot on Plate (%) boxes when you are using the sample characterization file named IT874_Highlight_Bump_8.cgt.
Highlight Minimum Dot	Select characterization data that reflects a flexographic press run with plates imaged for a highlight minimum dot. For the best results, the characterization data should reflect the number(s) that you type in the Minimum Dot on Plate (%) area in the Cyan, Magenta, Yellow, and Black boxes.

Step 1: Rendering Intent
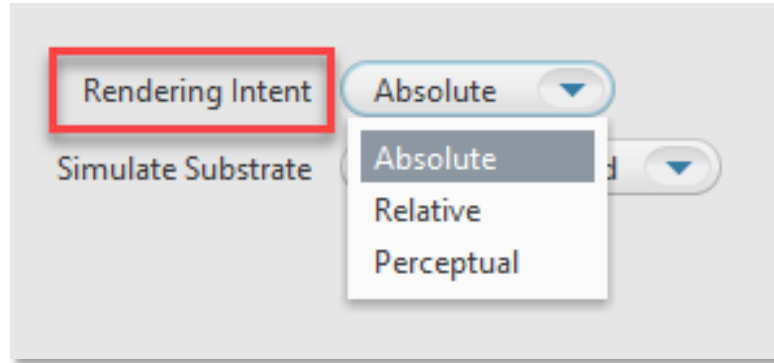
Defines how to transform the file. Rendering intents are available only when **ICC Handling** is set to **ICC Profiles**. Select one of the following options:

Relative—transforms colors without simulating a paper tint. The **Relative** rendering intent clips out-of-gamut colors.

Absolute—transforms colors and simulates a paper tint. The **Absolute** rendering intent compresses out-of-gamut colors and maps them to the edge of the gamut. This setting is recommended for all Certified Process for Color Confirmation work.

Perceptual—transforms colors without simulating a paper tint. The **Perceptual** rendering intent compresses all colors to map them to the smaller color space.
Use **Perceptual** for imposition media.

Step 1: Simulate Substrate
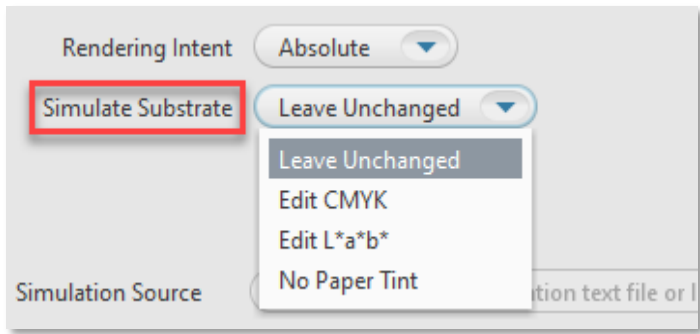
When the **Rendering Intent** list displays **Absolute**, you can choose to define a substrate in the inkjet proofer color space (not the press color space). The software will override the substrate definition in the characterization data with the new substrate definition.
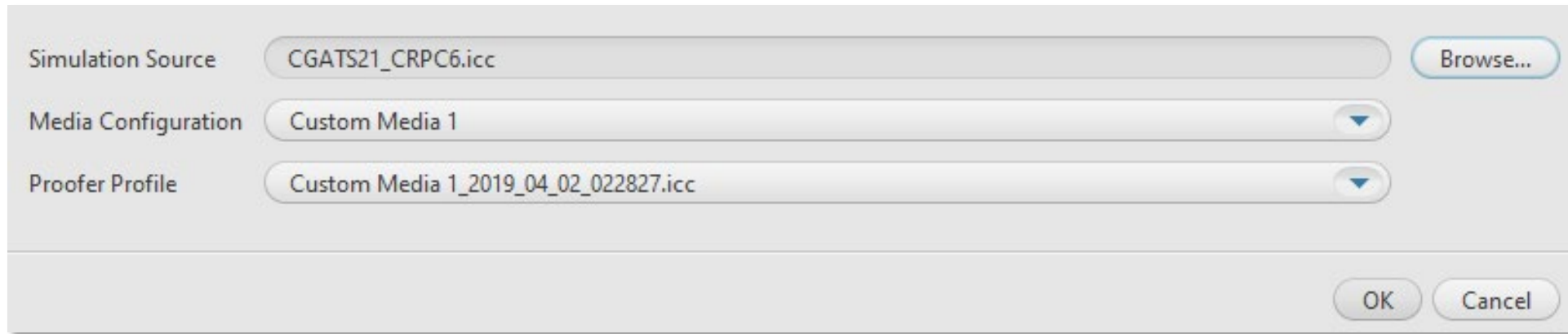
- **Leave Unchanged**: turns off the override, and uses the substrate definition in the characterization data.

- **Edit CMYK**: lets you define the substrate in CMYK tint percentages. Type a percentage from 0 to 100. Changes will be spread to colors near the white point.

- **Edit L*a*b*:** lets you define the substrate in L*a*b* color space. In the L* box, type a number from 0 to 100. In the a* box and the b* box, type a number from -128 to 127. Changes will be spread to colors near the white.

- **No Paper Tint:** Sets the White Point CMYK value to zero; while leaving all other colors around the white point unaltered.

Step 1: Proofer Separation Control
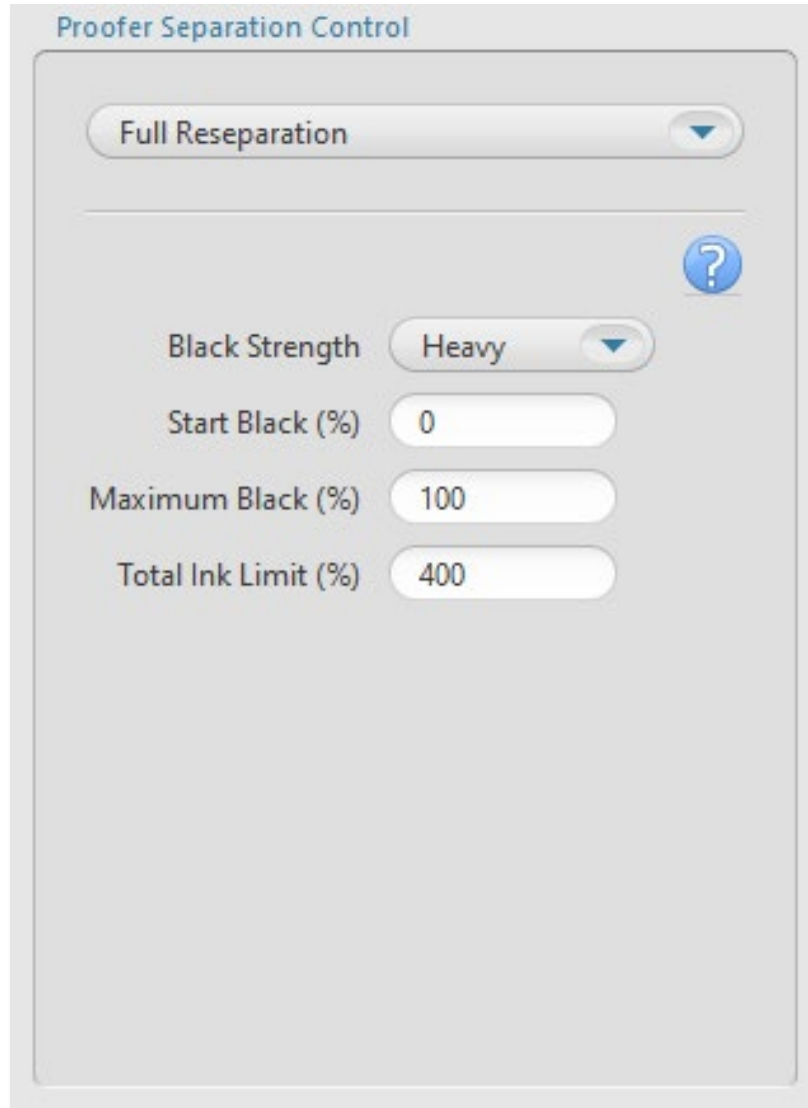
- **Black Strength:** To specify the relative quantity of black vs cyan, magenta, and yellow used to generate the neutral gray component of colors. As you increase the strength, colors can contain more black.

- **Start Black**: Specify the start point on the neutral axis for black ink. For example, if you set the start point value to 20%, tones less than 20% will print with CMY inks only

- **Max Black**: Specify the maximum allowable percentage of black ink used in the black separation

- **Total Ink Limit:** Specify the maximum sum of tint values of all the inks

Step 1: Simulation Source, Media Configuration and Proofer Profile

Simulation Source	CGATS21_CRPC6.icc	Browse...
Media Configuration	Custom Media 1	▼
Proofer Profile	Custom Media 1_2019_04_02_022827.icc	▼

OK   Cancel

Simulation Source: Select an ICC Source Profile or a CGATS5 File of spectrophotometer measurements of the IT8.7/4 chart printed on the press or proofer that you want to simulate.

Note: The supplied CGATS files are located in the Proofer Client > Docs folder.

Media Configuration: Select a media configuration to use with the DeviceLink

Proofer Profile: Select proofer profile on which to base the DeviceLink

Click OK to Save the Settings

Simulation Source	CGATS21_CRPC6.icc	Browse...
Media Configuration	Custom Media 1	▼
Proofer Profile	Custom Media 1_2019_04_02_022827.icc	▼

OK   Cancel

Save As   ×

Name	Origin
Custom Media 1_2019_04_02_0228...	Custom

Name   Ax_Custom Media 1_2019_04_02_022827

OK   Cancel

Give a name to the DeviceLink Profile and Click OK to Create the DeviceLink Profile

The DeviceLink Profile will appear in the ICC Profiles List and it will be signed for Certified Process for Color Confirmation

Name	Origin	Type	Ca...	En...
Ax_Custom Media 1_2019_04_02_022827.dvl	Custom	devicelink	Si...	Yes
CGATS21_CRPC1.icc	Custom	output	N...	Yes
CGATS21_CRPC2.icc	Custom	output	N...	Yes
CGATS21_CRPC3.icc	Custom	output	N...	Yes
CGATS21_CRPC4.icc	Custom	output	N...	Yes
CGATS21_CRPC5.icc	Custom	output	N...	Yes
CGATS21_CRPC6.icc	Custom	output	N...	Yes
CGATS21_CRPC7.icc	Custom	output	N...	Yes
Custom Media 1_2019_04_02_022827.icc	Custom	output	Pr...	Yes
EuroscaleCoated.icc	Custom	output	N...	Yes
EuroscaleUncoated.icc	Custom	output	N...	Yes
GenericGray-Output.icc	Custom	output	N...	Yes
GenericGray.icm	Custom	input	N...	Yes
JapanStandard.icc	Custom	output	N...	Yes
NoColorManagement.icc	Custom	output	N...	Yes
Null_CMYK_CMYK_Link.dvl	Custom	devicelink	N...	Yes
PSOcoated_v3.icc	Custom	output	N...	Yes
PSOuncoated_v3_FOGRA52.icc	Custom	output	N...	Yes
RGB2CMYK.icc	Custom	devicelink	N...	Yes

Ax_Custom Media 1_2019_04_02_022827.dvl

Description

Created By: Kodak Proofing Software

Color Space: CMYK

Connection Space: CMYK

Media Configuration: Custom Media 1
Media Type: Custom Media 1

Ink Type: Epson® UltraChrome™ HDX Ink (Photo Black Mode)

Resolution: 720x1440

Certified Process for Color Confirmation: Yes

Characterization File: CGATS21_CRPC6.icc

Simulate Minimum Dot: No Highlight Adjustment

Rendering Intent: Absolute

Simulate Substrate: Leave Unchanged

Settings | Maintenance | ICC Profiles | Color Bars | Reports | Media Types

Can I create a Custom Proofer Profile for an existing Media Configuration?

Answer: Yes

Create a Custom Proofer Profile to an existing Media Configuration

Media Configuration Manager for - MPILABD7050(P9000_V_Simulated)

Media Configuration	Resolution	Origin	Enabled
Custom Media 1	720x1440	Kodak	Yes

Disable Enable Import... Export... **Profile...**
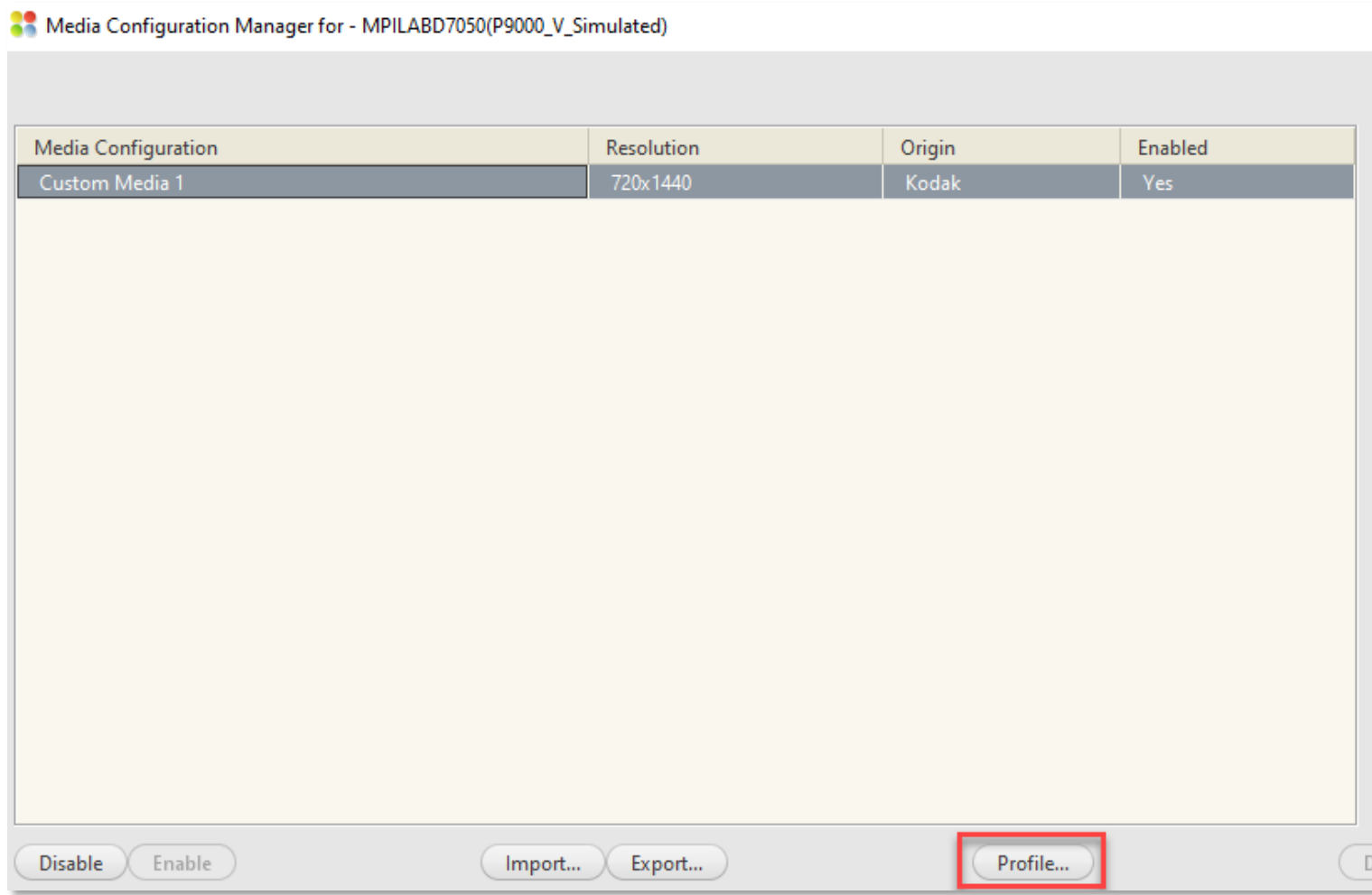
From the Media Configuration Manger:

1. Select the Media Configuration
2. Click on Profile

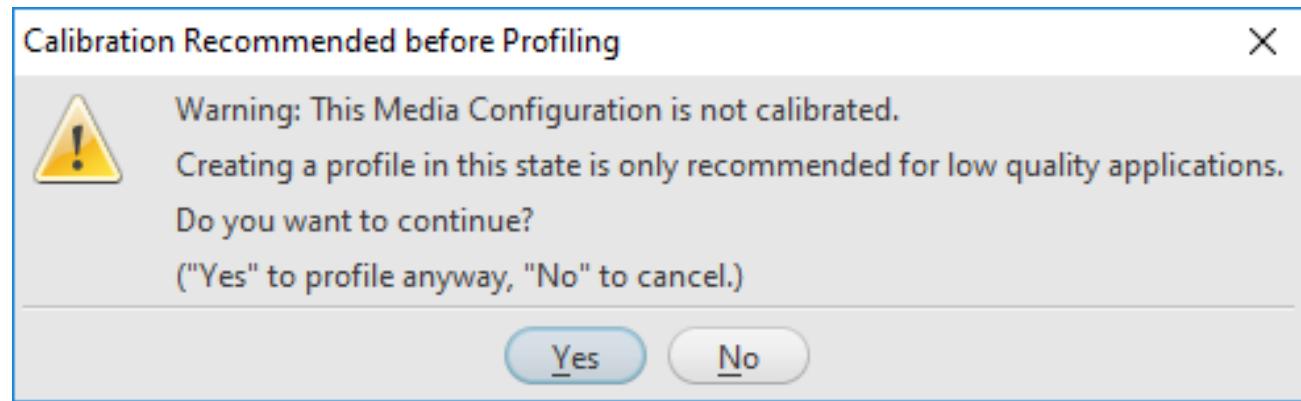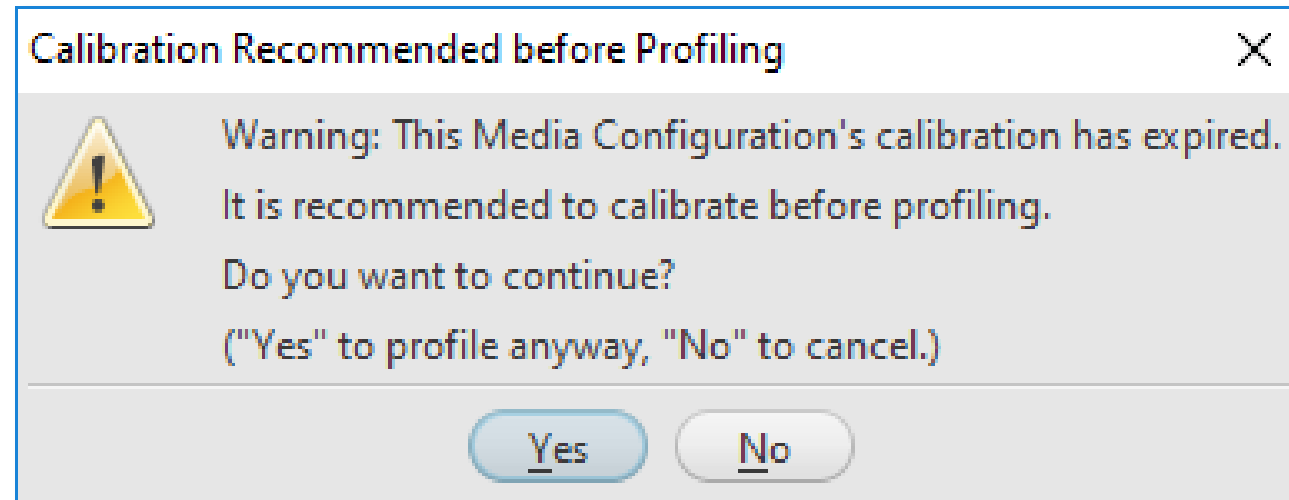# Create a Custom Proofer Profile to an existing Media Configuration

If the Media Configuration is not calibrated, the following message will appear:

Calibration Recommended before Profiling ✕

⚠ Warning: This Media Configuration is not calibrated.

Creating a profile in this state is only recommended for low quality applications.

Do you want to continue?

("Yes" to profile anyway, "No" to cancel.)

Yes   No

Create a Custom Proofer Profile to an existing Media Configuration

If the calibration has expired, the following message
will appear:

Calibration Recommended before Profiling

Warning: This Media Configuration's calibration has expired.

It is recommended to calibrate before profiling.

Do you want to continue?

("Yes" to profile anyway, "No" to cancel.)

Yes　No

Create a Custom Proofer Profile to an existing Media Configuration

Media Configuration Calibration is current and has passed

1. Proofer is calibrated and up to date.
2. User chooses to profile by pushing the "Profile" button.