Activity 5: Use a print curve to match a legacy workflow calibration curve

Background

Contents

If you are migrating from another workflow, such as Rampage, you may want to create a print calibration curve based on your legacy curve from Rampage.

This activity is to create a print calibration curve by entering the tint values from an existing curve.

Tasks

Goal
Create a custom CMYK device condition using a set of tint value data and use it as the target for your print calibration curve.

Task 1: Create a custom device condition

1. Click the **Device Conditions** tab.
2. Click the **Add** button ⊞.
3. In the **Device** dialog box, add a new device:
   a. In the **Device Name** box, enter `XX legacy device condition` (where XX= your initials).
   b. From the **Device Type** list, choose **Offset Press-Sheetfed**.
   c. Click **Create**.
   d. Drag the device you just created to the viewer window.
4. Click the **Properties** icon 🟧 and define the device condition:
   a. From the **Plate Setup** list, choose **Kodak Electra Excel, 200, Offset Press Sheetfed**.
   b. From the **Substrate** list, choose **Type 1 or 2 (coated art) 170 g/m2**.
   c. In the **Other** section, click the **Edit** button ✎.
   d. Click the **Add** button ⊞ and enter `Legacy Measurements`.
   e. Click **OK**.
5. Create a Tint Ramp chart:
   a. Click the **Measurement** icon 🟧.
   b. In the **Charts** section, click the **Add** button ⊞.
      A chart appears in the **Charts** list with a default name.
   c. From the **Chart Type** list, choose **Tint Ramp**.
   d. From the **Measurement Device** list, select **Other**.
   e. In the **Tint Set** section, click the **Edit** button ✎.
   f. Click the **Add** button ⊞ and enter `0 10 25 50 75 90 100`.
   g. Click **OK**.
   h. Click **Save**.
6. Enter the measurement value:
   a. Click **Measure**.
      In the dialog box that appeared, keep the default value and click **OK**.

      b. Click **Enter manually**.

      c. In the **Channels Binding** section, click **C, M, Y, K Same**.

7. In the **Tonal Response** section, enter the following EDA values:

Tint in	EDA
0	0
10	8
25	20
50	44
75	70
90	87
100	100

8. Click **OK** and close the **Device Measurements** dialog box.

9. In the **Device Condition** list table, find the device condition you just created and select the **Show in Target Lists** check box.

Task 2: Create the print calibration curve

1. In ColorFlow, click the **Print Curves** tab.

2. In the **Calibration Curves** section, click the **Add** button ⊞ .
The **Device** dialog box appears.

3. Drag **XX legacy device condition** to the viewer window.

4. Click the **Properties** icon and define the device condition:

      a. From the **Plate Setup** list, choose **Kodak Electra Excel, 200, Offset Press Sheetfed**.

      b. From the **Substrate** list, choose **Type 1 or 2 (coated art) 170 g/m2**.

      c. Click **OK**.

5. Make a linear tonal response for your device:

      a. Click the **Measurement** icon .

      b. In the **Charts** section, click the **Add** button ⊞ .
A chart appears in the **Charts** list with a default name.

      c. From the **Chart Type** list, choose **Tint Ramp**.

      d. From the **Measurement Device** list, select **Other**.

      e. From the **Process Ink Set** list, choose **CMYK**.

      f. Click **Save**.

      g. Click **Measure**.

      h. In the **Channel Binding** section, click **C, M, Y, K Same**.

      i. Click **OK**.

6. Define the conversion target:

      a. Click the **Conversion** icon .

      b. Select the **Show curves in Prinergy** check box.

      c. Click the **Process Inks** tab and choose the print condition that you just created from the **Target** list.

      d. From the **Curves Method** list, choose **Tonal Match**.

    e. Click **OK**.
        A print calibration curve is generated to match your legacy print calibration curve.
7. In the **Calibration Curves** table list, double-click the name of the curve that you just created and enter `XX legacy curve for tonal match` (where xx= your initials).

Task 3: Output a job using the newly created print calibration curve

1. In Prinergy, create a new job, and name it as `XX legacy curve tonal match` (where XX = your initials).
2. Refine Chart_TintRamp_CMYK.pdf with 1stRef-Normz.
3. Output the PDF file using Virtual Proof.LoosePage with the print curve you just created:
    a. In your **Virtual Proof.LoosePage** Process template dialog box, from the **Output To** list, choose **Virtual Proof**.
    b. Leave **ColorFLow Color Relationship Management** unchecked.
    c. Expand the **Calibration & Screening** panel.
    d. Click the **ColorFlow Current State** radio button.
    e. Expand the **Print Curve** drop down list and select curve **XX legacy curve tonal match** .
4. Open the generated page in VPS and measure the 10%, 50%,and 90% black patch.
Confirm that the plate calibration curve has been applied: 10% measures 8; 50% measures 44; 90% measures 86.6.

Outcome

You have created a print calibration curve based on your legacy curve from Rampage.