ORIS Color Tuner//Web Version 3.2.1

RELEASE NOTES

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This file describes the additions, modifications and bug fixes in ORIS Color Tuner//Web Version 3.2.1.

Licensing

Version 3.2.1 is license-protected and requires the input of a new license. This is not required if you are already using Version 3.2.

System Recommendations

We recommend the following computer equipment for optimum performance and high throughput:

- Intel Core i7 6th generation or better
- 16 GB of RAM or more
- 500 GB SSD disk (system disk) or more
- Windows 10 (64 bit) or newer
- Internet Explorer Version 11 or newer

Contents

1. IIS Server Technology

The web server technology used with ORIS Color Tuner//Web has been changed in V3.2.1:

- Microsoft Internet Information Services (IIS) replaces Apache HTTP Server
- PHP Version 5.6 replaces PHP4

The IIS server software is updated regularly via the Windows Update function. The latest security updates are therefore always available automatically.

All software components will configured by the installation process. It is not necessary to manually install or uninstall any components.

Manual changes to the configuration of the Apache HTTP server are not replicated automatically when installing ORIS Color Tuner//Web V3.2.1. These changes must be transferred manually to the IIS configuration. This applies particularly to the following changes:

- Internet access to ORIS Color Tuner//Web was set up (in `httpd.conf`).
- Default port 80 was changed (in `httpd.conf` and Windows Registry).

If Port 80 is Used Already...

A message appears during the ORIS Color Tuner//Web installation process if the IIS default port 80 is used already by another web server. In this case proceed as follows:

1. Stop the web server which uses the port, e.g. by stopping the Apache service.
2. Reinstall ORIS Color Tuner//Web. Then restart the computer (recommended).
3. Change the port number for IIS:
   Open the **Internet Information Services (IIS) Manager** via **Control Panel/Administrative Tools**. Then select **Sites > Default Web Site** and click on **Bindings**.
4. Change the port number for ORIS Color Tuner//Web:
   In the Windows Registry, select the key
   `HKEY_CURRENT_USER\Software\CGS\ORIS COLOR TUNER WEB`. Inside this key, create a key named `Redirect`.
   Create a new string value named `Home` for the new key. Enter the data
   `http://localhost:nn/colortuner/` for this string value, where `nn` is the new port number.
5. Restart the web server you have stopped before.

2. Additions

New RFP File

V3.2.1 includes an additional RFP file for Epson SureColor SC-Px0x0 printers used with ORIS Proof Universal 230 paper and UltraChrome HDX ink with violet.

This file is named `171 Epson P5kP7k9k V Universal 230.rfp` and resides in the installation directory `…\CGS\Common Files\ICC\Reference Printer Profiles\`.

TC1617 Test Charts

The TC1617 CMYK characterization test charts and reference files from IDEAlliance are installed additionally now.

In the `…\Testcharts\EyeOne iSis` folder:

- `TC1617x_V (i1iSis) cf.tif`
- `TC1617x_V (i1iSis).txt`
- `TC1617x_H (i1iSis) cf.tif`
- `TC1617x_H (i1iSis).txt`

In the `…\Testcharts\EyeOne iO M1+M2` folder:

- `TC1617x (i1iO) cf.tif`
- `TC1617x (i1iO).txt`

Automatic Paper Roll Switching

Now ORIS Color Tuner//Web supports high-volume printing on Canon imagePROGRAF PRO printers equipped with a second paper roll holder.

Feed two rolls of the same media to the printer and enable the new **Auto roll source selection** option located on the **Paper** tab of the **Settings** dialog for jobs and output queues. If there is not enough paper left for printing the next job, the printer automatically switches to the second paper roll and continues to print.

3. Modifications

Chroma Optimizer

Canon imagePROGRAF PRO-1000/2000/4000 printers used with particular types of coated paper automatically apply a clear coating to the inked paper areas. This finishing can now also be applied over the entire print area including any uninked paper areas.

Use the new **Chroma optimizer** option on the **Paper** tab of the **Settings** dialog for jobs and output queues. This option is available if a supported paper type is selected. Choose between the following settings:

- **Auto**: Chroma Optimizer applied to inked areas only (as before)
- **All**: Chroma Optimizer applied over entire print area (new)

Spot Color Names

It is now possible to treat color names in the spot color correction file (`*.scgx`) and the print jobs as identical only if they are exact matches. To do so, enable the new **Check for exact spot color name suffix** option on the **Spot Color Correction** tab of the **Settings** dialog for jobs and output queues.

If the option is disabled, color names are treated as identical even if the suffix is missing or different. Example: "PANTONE Black 6" and "Pantone Black 6 CP". This is the behavior of previous ORIS Color Tuner//Web versions.

Differences in spaces and case are always ignored regardless of how this option is set.

Test Chart Generator

Now the **Total ink coverage** option can only be set to values which make sense for the selected color space. The minimum value is 120, the maximum value is 100 multiplied by the number of color channels.

4. Bug Fixes

Paper Types

Various corrections were made to the list of paper types displayed for Canon imagePROGRAF PRO printers. The **Heavyweight Photo Paper A** paper type, which was missing, is available now. Selecting the **Lightweight Photo Paper A** paper type works as expected.

Spot Color Optimization

Iteratively optimizing spot colors using the i1iSis measurement device works again as expected. Test charts generated with this function have the correct width.

Print Job Editor

The **Examine, show and change job separations** function in the job preview works correctly now on Windows 10 operating systems.

Long Response Times

A large number of output queues caused ORIS Color Tuner//Web's user interface and the processing of print jobs to become extremely slow under certain conditions.

Jobs Not Printing

Jobs output to multiple printers of the Epson SureColor SC-Px0x0 series at the same time got stuck in the print spooler in certain cases.

Database Backup

Scheduled database backup tasks run smoothly now without causing a program error.

Version 3.2

Contents

1. New Printers and Test Charts

Roland TrueVIS VG

ORIS Color Tuner//Web additionally supports the following inkjet printers/cutters from Roland DG for proofing continuous tone data:

- Roland TrueVIS VG-640
- Roland TrueVIS VG-540

Specifications:

- 8 colors: CMYKLcLmLk+W
- Maximum resolution: 900 x 900 dpi
- Maximum media width:

  64 inch (1630 mm) for VG-640

  54 inch (1370 mm) for VG-540

Installing the Printer Driver

There are no Windows printer drivers available for Roland printers. Do the following to create a generic TCP/IP printer:

1. Turn the printer on and make sure it is accessible on the network.
2. If Windows 8 or 10 is used, right-click the Windows **Start** icon and select **Control Panel**. Then click on **(View) Devices and printers**.
   If Windows 7 is used, select **Devices and Printers** from the Windows **Start** menu.
3. Click **Add a printer**.
4. If Windows 8 or 10 is used, click on **The printer that I want isn't listed**.
5. Select **Add a local printer or network printer with manual settings** (Windows 8 and 10) or **Add a local printer** (Windows 7).
6. Select **Create a new port** and **Standard TCP/IP Port**.
7. Enter the printer's IP address.
8. If the printer is offline or unreachable, you are requested to specify the device type. Leave the default settings **Standard** and **Generic Network Card**.
9. Select the printer manufacturer **Generic** and the printer **Generic/Text Only**.
10. Enter the printer name **Roland VG-640** or **Roland VG-540**, respectively.
    Make sure to use exactly this spelling. The program uses the Windows printer name to identify the ink set installed in the printer.

MasterMaind StreamMaster WG

ORIS Color Tuner//Web additionally supports the following "MasterMaind" printers for proofing continuous tone data:

- MasterMaind StreamMaster WG 300
- MasterMaind StreamMaster WG 540
- MasterMaind StreamMaster WG 640

- MasterMaind StreamMaster WG-V 300
- MasterMaind StreamMaster WG-V 540
- MasterMaind StreamMaster WG-V 640

Specifications:

- 7 colors (ARIcolor): cyan, magenta, yellow, black, orange, green, white
  for WG 300, WG 540, WG 640
- 8 colors (ARIcolor): cyan, magenta, yellow, black, orange, green, violet, white
  for WG-V 300, WG-V 540, WG-V 640
- Maximum resolution: 1440 dpi
- Maximum media width:
  64 inch (1630 mm) for WG 640 and WG-V 640
  54 inch (1370 mm) for WG 540 and WG-V 540
  30 inch (760 mm) for WG 300 and WG-V 300

Installing the Printer Driver

There is no Windows printer drivers available for MasterMaind printers. Do the following to create a generic TCP/IP printer:

1. Turn the printer on and make sure it is accessible on the network.
2. If Windows 8 or 10 is used, right-click the Windows **Start** icon and select **Control Panel**. Then click on **(View) Devices and printers**.
   If Windows 7 is used, select **Devices and Printers** from the Windows **Start** menu.
3. Click **Add a printer**.
4. If Windows 8 or 10 is used, click on **The printer that I want isn't listed**.
5. Select **Add a local printer** (Windows 7) or **Add a local printer or network printer with manual settings** (Windows 8 and 10).
6. Select **Create a new port** and **Standard TCP/IP Port**.
7. Enter the printer's IP address.
8. If the printer is offline or unreachable, you are requested to specify the device type. Leave the default settings **Standard** and **Generic Network Card**.
9. Select the printer manufacturer **Generic** and the printer **Generic/Text Only**.
10. Enter the complete printer model name.
    For 7 colors without violet ink:
    MasterMaind StreamMaster WG 300
    MasterMaind StreamMaster WG 540
    MasterMaind StreamMaster WG 640
    For 8 colors with violet ink:
    MasterMaind StreamMaster WG-V 300
    MasterMaind StreamMaster WG-V 540
    MasterMaind StreamMaster WG-V 640
    Make sure to use exactly this spelling. The program uses the Windows printer name to identify the ink set installed in the printer.

New Test Charts

Additional test charts for printing with violet ink are installed under …\CGS\ORIS COLOR TUNER WEB\ORIS Color Tuner\Testcharts\.

In this directory:

- `Color 21Step 7clr Linearization.pdf`

  For 7-channel linearization using X-Rite i1 (iO) and Konica Minolta FD-5/7
- `Ink Limit Chart 7clr.pdf`

  For 7-channel ink limiting

In the subfolders for the measurement devices:

- 7-channel linearization test charts (for the other supported devices)

  Example: `Color 21Step 7clr Linearization i1 iSis.pdf`
- Characterization test charts for 7-channel spot color correction

  Example: `MC 7-Color CMYK-OrGrVi i1 iSis.pdf`

There is also a reference file for every test chart. It has the same name and the file extension `*.txt`.

If a suitable test chart for your measurement device and output format is not available in the installation directory, use the new Test Chart Generator to create the desired test chart quickly and easily.

Canon imagePROGRAF PRO

ORIS Color Tuner//Web supports additional large-format printers from Canon for proofing continuous tone data.

Canon imagePROGRAF PRO-1000

- 12 colors LUCIA PRO pigment inks
- Sheet paper
- Maximum paper size: A2 (420 mm)

Canon imagePROGRAF PRO-2000

- 12 colors LUCIA PRO pigment inks
- 1 paper roll, option for 2nd roll
- Maximum paper width: 24 inch (610 mm)

Canon imagePROGRAF PRO-4000

- 12 colors LUCIA PRO pigment inks
- 1 paper roll, option for 2nd roll
- Maximum paper width: 44 inch (1118 mm)

Canon imagePROGRAF PRO-4000S

- 8 colors LUCIA PRO pigment inks
- 1 paper roll, option for 2nd roll
- Maximum paper width: 44 inch (1118 mm)

Canon imagePROGRAF PRO-6000S

- 8 colors LUCIA PRO pigment inks
- 2 paper rolls
- Maximum paper width: 60 inch (1524 mm)

Annotations

It is sufficient to install the original Canon printer driver for these printers. It is not necessary to install an ORIS Color Tuner//Web plug-in.

When using ORIS proofing paper, select the following setting on the printer's control panel:

- **Special 5** when printing with Photo Black ink
- **Special 10** when printing with Matt Black ink

If the paper types **Special 5** and **Special 10** are not available on the printer's control panel, use Canon's "Media Configuration Tool" to load the media information to the printer.

The "Media Configuration Tool" allows you to define custom paper types for the media used on your printer. This tool is available on the printer's installation CD and on the Canon website.

Epson SureColor SC-P5000

ORIS Color Tuner//Web additionally supports the Epson SureColor SC-P5000 large-format printer for the printing methods Continuous Tone, ScreenDot and ScreenDot Plus.

- 11 colors – UltraChrome HDX inks:

  Light Black, Light Light Black, Photo Black, Matte Black, Cyan, Light Cyan, Yellow, Vivid Magenta, Vivid Light Magenta, Orange, Green

  or

  Green, Orange, Violet, Vivid Light Magenta, Vivid Magenta, Yellow, Light Cyan, Cyan, Matte Black, Photo Black, Light Black

- Maximum resolution:

  2880 x 1440 dpi

- Maximum paper width:

  A2 or 17 inch (432 mm)

Install the original Epson printer driver for this printer as well as the ORIS Color Tuner//Web plug-in `CP_ESCP5K_10_1.exe`. This plug-in is available on the installation CD and can also be downloaded from our website.

When using ORIS proofing paper, select the setting **Epson Proofing Paper White Semimatt** on the printer's control panel.

The X-Rite spectrophotometer embedded in this printer is supported when printing on roll paper. This device can be used for calibration, color matching, proof certification and the creation of reference printer profiles. The embedded measurement device can be used for these functions only. You cannot measure test charts inserted manually into the printer.

To automatically calibrate this printer, you can use the reference printer profiles (`*.rfp`) of the Epson SureColor SC-P7000/SC-P9000 series.

Test Chart for X-Rite FD-9

Now the following test chart and the related reference file are additionally installed in the installation directory `…\CGS\ORIS COLOR TUNER WEB\ORIS Color Tuner\Testcharts\FD-9\`:

- `ECI2002 CMYK Random FD-9.pdf`

- `ECI2002 CMYK Random FD-9.txt`

2. Additions

Multi-channel ICC Output Profiles

ORIS Color Tuner//Web allows you to create ICC profiles for characterizing output devices with up to 8 color channels (CMYK + 4 spot colors). These profiles are directly generated from the measurements of multi-channel test charts without limiting the printer's color gamut to the gamut of a target color space (standard printing conditions).

This new functionality requires a separate software license.

Creating Output Profile

1. Select **Utilities > Create ICC Output Profile**.
   This command is only available if you have a valid license of this functionality. The **Profiling Options** dialog opens.

2. Use one of the options under **Measurement**:
   Measure: Click here to measure a multi-channel test chart using ORIS Color Tuner//Web. A suitable reference file is required.
   Browse: If you have measured the test chart already, load the measurement file here.
   You can only use measurement files with the first four color channels defined as CMYK followed by a maximum of four spot color channels.

3. Into the input boxes named **Separations 5–8**, enter the names of the spot color channels. Make sure to use exactly the same names as the spot colors in the print jobs.
   If they are defined in the measurement file, the color names are automatically added to these input boxes. You can change these names by overtyping them.

4. Set the options which control the profiling process. See below for more details.

5. Click **Calculate profile**.

6. Enter a name for the new profile, select the save location and click **Save**.
   This starts the profiling process, which takes a few minutes to complete. The current progress is indicated. A message appears when the profile has been created.

Profiling Options

Use standard values – Resets some options to default values.

Total ink coverage – Reduces the amount of ink used when all color channels are printed on top of each other. The recommended setting depends on the paper type and printing process.

Use maximum black – This setting optimizes profile separations to use black in replacement of CMY wherever possible. This considerably reduces the use of CMY inks, which reduces ink costs per sheet and provides greater color stability during production.

Use intelligent black – If enabled, the profiling process may override the selected black curve in some areas. This ensures that black is generated wherever black is

required for creating an optimum color separation. We recommend to enable this option.

Starting point – Starting point for black ink when CMY ink is replaced with black (GCR). A starting point of 10% or more is usually recommended. This may reduce the side effect of GCR which often causes highlight areas to appear grainy, especially at low print resolutions.

Maximum black – Ending point for black ink. If you set this value to 90%, for example, no more black dots will be printed as soon as all CMY channels have reached or exceeded 90%.

Black curve type – Select between 8 levels of CMY reduction. The higher the level, the larger the amount of CMY ink that will be replaced with black.

Black width – The higher this value, the more black will be generated for saturated colors. A value of 0 means that black will be generated for neutral colors (grays) only. A larger black width can improve the rendering of four-color grays and skin tones which may appear much smoother and less grainy.

Perception – Allows you to select two default settings for the three options in this group: **Colorful** and **Saturation**. If you modify these default values, the setting is this list changes to **User defined**.

Contrast – Move this slider to the right if you feel that dark areas in your image are losing detail or if your printer is capable of producing darker black tones.

Saturation – Increases color saturation. Decrease this value if you wish to reveal greater detail in saturated color areas.

Neutralize gray – When rendering gray values using the "Perceptual" rendering intent, those values are shifted slightly to align with the color of the paper. If a yellowish paper is used, the grays are rendered with a yellow cast to appear neutral compared to the paper.

Use this slider to cause gray tones to be more in line with the paper (high values) or to be more measurably neutral (low values). We recommend to leave the default value unless a you are using a paper with a heavy color tint.

Tables – Allows you to select two default settings for the three options in this group: **Optimize quality** and **Optimize size**. If you modify these default values, the setting is this list changes to **User defined**.

A2B size – Controls the size of the preview table in the ICC profile. This table converts colors from the device-dependent CMYK color space to the independent Lab color space. The preview table is required, for example, to accurately display an image on the screen in a color-managed application.

The larger the preview table, the longer the profiling process and the larger the profile file. As this table does not determine the precision of color rendering in print, you can select smaller table sizes without any negative effects.

B2A size – Controls the size of the separation table in the ICC profile. This table converts colors from the device-independent Lab color space to the dependent CMYK color space. The separation table is required for accurately color matching your print jobs.

For high-quality print results it is usually advisable to create large or very large separation tables since this will produce very precise profiles. Larger separation tables cause the profiling time and profile size to increase, but to a lesser extent compared to preview tables.

A smaller table size is usually appropriate for printing processes with a reduced color gamut, such as newsprint.

Bit depth – Determines the precision used for storing CMYK color values. It is usually advisable to keep the 16 bit default value.

Profile version – Choose whether to create ICC V2 or ICC V4 profiles.

Applying Output Profile

4-channel ICC output profiles (CMYK without spot colors) can be used for color-matched printing with ORIS Color Tuner//Web. Set up a print queue to use this output profile together with a target profile.

1. Select a print queue and click **Settings**.

2. Select the **Color Correction** tab.

3. Select the **ICC profiles only** option and click **Select profiles**.

4. Using the **Target Color Space/CMYK profile** option, select a target profile defining the desired standard printing conditions.

5. Using the **Device Color Space/Proof profile** option, select the new ICC output profile.

Test Chart Generator

Overview

Using the **Utilities > Generate Test Chart** command you can now create custom test charts for your printer and measurement device. The new tool allows you to create linearization and profiling test charts as well as color bars for ORIS Certified//Web.

The color channels, total ink coverage and number of patches can be defined by the user or by selecting a reference file. The maximum number of color channels is 4 in addition to CMYK.

A preview allows you to examine the test chart layout and the color values of each patch.

Creating Linearization and Profiling Test Charts

1. The **Preset** list contains some combinations of measurement device and output format.
   If a suitable preset is available, select it and click **Save** to generate the test chart. Otherwise take the steps explained in the following.

2. Select your **Measurement device**.

3. If a reference file is available for the test chart, select it using **Reference > Load reference file**. The next options are then set automatically and you can proceed with specifying the **Format** (see below).
   If there is no reference file, select the setting **Linearization Test Chart** or **Profiling Test Chart**, respectively.

4. From the **Color space** list, select the color channels you want. There are settings for **CMYK** only and combinations with Orange, Green and Violet (e.g. **CMYKOGV**). Select the setting "…" to open a dialog that allows you to define your own color channels (up to four in addition to CMYK) as well as the equivalence values and print order. Click **OK** to add the new color space setting to the list. It will be selected automatically.

5. If you are creating profiling test charts:
   Define the **Total ink coverage**.
   Enter the approximate **Number of patches** to be created. To generate a similar layout as the ECI2002 chart, specify approx. 1470 patches and the CMYK color

space.

The application automatically calculates the appropriate number of patches which comes closest to your input. This value appears to the right of the input box.

The more color channels, the more color patches should be specified. Keep in mind that a great number of patches may result in very large test charts with many pages.

6. The test chart format is set automatically according to the requirements of the measurement device. The **Width** and **Height** values calculated by the application appear to the right of these input boxes.

   If the printer supports smaller paper sizes only, select the appropriate size from the **Format** list. The application adds the selected **Width** and **Height** values to the input boxes. You can modify these values if you want. The test chart format will be adjusted automatically.

   Enable the **Apply** option to enlarge the page size to the values that are shown in the **Width** and **Height** boxes. This does not change the size of the actual test chart. It only places the test chart on a page with the specified format.

7. Into the **Title** box, enter the text that should appear above the test chart.

   This text will also be used as the default file name when you click **Save**.

8. Enable the **Footer** option if the text "Printed with ORIS Color Tuner//Web" should be placed below the test chart.

9. Enable **Randomize** if patches with similar colors should be distributed evenly across the test chart. If disabled, such patches are placed next to each other, which can have negative effects on the printing process.

10. Use the **Preview page** option to select the test chart page to be displayed in the preview image on the right.

    If you hover the cursor over the preview, the color and total ink coverage values for the respective patches are displayed below this parameter.

11. Click **Save**.

    Select the file name, save location and file format (**PDF** or **PostScript**), then click the **Save** button.

    The application generates the test chart and also a suitable reference file. This file will have the same name as the test chart and the file extension `*.txt`. The reference file will also include information about the geometry of the measurement device, if required by the device.

Creating Color Bars for Print Validation with ORIS Certified//Web

1. Select your **Measurement device**.

2. Using the **Reference** option, select the reference file defining your printing standard (e.g. IDEAlliance ISO12647-7).

3. Enable the **Apply** option underneath **Number of rows**.

   The layout is automatically adjusted according to the requirements of ORIS Certified//Web. Columns and rows are swapped and the color patches are rearranged accordingly.

   You can change the number of rows.

4. If required, adjust the test chart **Format** to the requirements of the printer (see above).

5. Set also the other options in the same way as explained for linearization and profiling test charts.

6. Click **Save** and create a PDF file.

6-channel Linearization

Linearization data for Roland printers with XG Inks (CMYKOrGr) can be optimized iteratively now. This functionality is available when creating output queues using the Printer Setup Wizard and when creating RFP files using the Reference Printer Profile Wizard.

Bleed Page for Roland LEF Printers

Roland LEF printers can be used to subsequently add a layer of varnish to jobs printed on another device. In order to correctly align such jobs on the LEF printer, you can now print register marks using an ORIS bleed page named `LEF REGISTER MARKS.ddp`. The new bleed page is available in the installation directory … `\CGS\Common Files\Extras\`.

X-Rite eXact Measurement Device

Now ORIS Color Tuner//Web supports the measurement device eXact from X-Rite. It can only be used for measuring and optimizing spot colors.

CxF/X-4 Color Bars

It is now possible to create CxF/X-4 compliant spot color bars for the X-Rite eXact measurement device.

PDF Print Engine Supports Preflight Check

It is now possible to apply preflight check options when PDF files are processed with Adobe PDF Print Engine enabled. A print job is canceled if it does not meet all of the preflight check criteria that have been specified.

ORIS Soft Proof with Acrobat DC (Macintosh)

There is a new plug-in with the version number 3.0.6 for creating soft proofs on Macintosh computers. This new plug-in, which supports Adobe Acrobat DC, can be downloaded from the CGS website `http://www.cgs-oris.com`.

3. Modifications

.NET Framework

The Microsoft .NET 4.0 Framework installed with ORIS Color Tuner//Web has been updated to Version 4.5.2 for security reasons.

Measurement Devices

The **Response status** descriptions have been changed to comply with standard ISO 5-3.

Setup Wizard

The default file names for calibration files (`*.cal`) have been abbreviated.

Esko Color Database

It is no longer possible to connect to the Esko Color Database. This functionality has been removed completely.

4. Bug Fixes

Overprinting Black Type

The color correction of type and tint elements composed of solid black (K100) and amounts of CMY produced a grayish black in some cases.

To avoid this, a new option named **Keep K100 and color correct CMY values only** has been added on the **Print Layout** tab of the **Settings** dialog. If enabled, color corrections will only be applied to the CMY amounts of a color. K100 values will remain unchanged.

Color Exchange Format

We have resolved an issue that occurred when importing spot color libraries with Color Exchange Format (`*.cxf`) from the PANTONE Color Manager application.

Exporting Print Queues

Exporting a print queue now adds all spot color correction files (`*.scg`, `*.scgx`) to the ZIP file, including those that are not used in the print queue setup.

Calibration

We have resolved an issue that occurred with print queues that had been duplicated.

PANTONE+ Libraries

There were duplicate spot colors in some PANTONE+ libraries. These duplicates have been removed.

Spot Colors

CMYK device colors were calculated incorrectly when spot colors were imported from library files. Now spot colors are again rendered with a considerably larger amount of black and no longer composed of CMY only. Neutral spot colors are therefore rendered in a much more neutral way.

ORIS Database

We have removed Data Source Names that were displayed erroneously.

PDF/EPS/PostScript

We have fixed various bugs that occurred when printing PDF, EPS and PostScript files.