DLS - DeviceLinkSets from Bodoni Systems

Release: May 2010

1) Support of international printing standards

The standard DeviceLink profiles of the CoLoV3 series are based on the ECI, IFRA and GRACoL / SWOP profiles as at July 2009. Detailed information on the field of application of the ECI profiles can be taken from the document "Media Standard Print 2008" of the German Printing and Media Industries Association (Bundesverband Druck und Medien) at www.bvdm.org, and from the documentation on the individual profiles in the download area of www.eci.org. Information on the GRACoL, SWOP and SNAP profiles can be found on the Web sites at www.gracol.org , www.swop.org and www.snapquality.com. Information in English on color profiles and characterization data for Japan can be found in the Color Management area of the Ghent Working Group at www.gwg.org, and in the ICC Registry at www.color.org.

DeviceLink profiles have been created for the following international printing standards:

ISOcoated_v2	Offset, coated paper	FOGRA39
ISOcoated	Offset, coated (obsolete)	FOGRA27
ISOwebcoated	(Web) offset, LWC paper	FOGRA28
ISOuncoated	Offset, uncoated	FOGRA29
ISOuncoatedyellowish	Offset, uncoated yellowish	FOGRA30
ISOcofcoated	Continuous forms, coated	FOGRA31
ISOcofuncoated	Continuous forms, uncoated	FOGRA32
SCpaperECI	Web offset, SC paper	FOGRA40
PSOmfc	Web offset, MFC paper	FOGRA41
PSOsnp	Web offset, standard newsprint	FOGRA42
PSOcoatedNP	Offset, coated FM with 28% dot gain	FOGRA43
PSOuncoatedNP	Offset, uncoated FM with 28% dot gain	FOGRA44
ISOnewspaper26	Newspaper, 26% dot gain	IFRA26
PSO LWC Improved	Web offset, improved LWC paper	FOGRA45
PSO LWC Standard	Web offset, standard LWC paper	FOGRA46
PSOuncoated	Offset, uncoated - successor of FOGRA29	FOGRA47
PSR LWC Plus V2	ECI gravure, LWC plus paper	
PSR LWC Standard V2	ECI gravure, LWC standard paper	
PSR SC Standard V2	ECI gravure, SC standard paper	
PSRhwc	ECI gravure, HWC paper (older printing standard)	
PSRlwc	ECI gravure, LWC paper (older printing standard)	
PSRsc	ECI gravure, SC paper (older printing standard)	
PSRmf	ECI gravure, MF paper	
GRACoL1	US offset / gravure, Grade 1 (coated)	CGATS TR006
SWOP3	US offset / gravure, Grade 3 (LWC white)	CGATS TR003
SWOP5	US offset / gravure, Grade 5 (LWC yellowish)	CGATS TR005
SNAP2007	US newspaper	CGATS TR007
JapanColor2001Coated	Japan offset, coated	JC200103
JapanColor2001Uncoated	Japan offset, uncoated	JC200104
JapanColor2003WebCoated	Japan web offset, LWC	JCW2003
JapanColor2002Newspaper	Japan newspaper	JCN2002
JapanColorWebcoated_Ad	Japan web offset, LWC (older printing standard)	

2) DeviceLink profiles for color space conversion

Profiles for color space conversion are structured according to the following system: ***SourceColorSpace_to_TargetColorSpace_TACxxx_CoLoV3.icc***.

These conversion profiles are based on the ECI profiles for printing according to ISO 12647-2 / PSO, and the GRACoL and SWOP profiles of the IDEAlliance for printing according to G7 Guidelines.
Conversion profiles whose name includes ***_TACxxx_*** optimally preserve the color composition of the source data (separation preservation) and merely limit the total amount of color (TAC) according to the target color space.

Example: ***ISOcoatv2_to_uncoat_TAC280_CoLoV3.icc*** converts printing data from the ISOcoated v2 color space for coated paper to ISOuncoated for uncoated paper, limiting the total amount of color to 280% in the process.

3) DeviceLink profiles for limiting the total amount of color

These profiles do not perform any color conversion whatsoever, but limit the total amount of color for a specific printing standard. They are structured according to the following system: ***PrintingStandard_TACxxx_CoLoV3.icc***.

Example: ***ISOcoatedv2_TAC300_CoLoV3.icc*** limits the total amount of color to 300% for offset printing on coated paper.

Profiles are now also available for limiting the total amount of color to 200% for newspaper printing.

4) DeviceLink profiles for saving ink

Bodoni Systems DeviceLink profiles for saving ink are based on advanced technology for increasing the black component of the printing data, while simultaneously reducing the CMY component. The algorithms used for this purpose enable far better data optimization compared to ICC-based color conversion with strong GCR. The advantages compared to ICC-based conversion with strong GCR include very soft transitions from tertiary colors to pure colors, and the option of leaving colors with a high black component completely unchanged.
Advantages on the press include better printing properties on difficult papers, shorter makeready times, greater stability over the length of the run, and ink savings.
Like the DeviceLink profiles for limiting the total amount of color, the DeviceLink profiles with a low ink-saving setting retain the original color composition, and only very slightly increase the black component. They simultaneously reduce the CMY component, and additionally limit the total amount of color. Printshops that have been successful in generally applying DeviceLink profiles to limit the total amount of color, will usually have no difficulty switching to Bodoni Systems DeviceLink profiles with low or moderate ink-saving settings.
Profiles with higher ink-saving settings call for even more accurate compliance with the standardization targets, and particularly a regular check of the dot gains and solid ink densities for black. Depending on application, Bodoni Systems provides SaveInk profiles with three different intensities for all relevant color standards:

4a) PrintingStandard__SaveNeutralxxx_ moderately increases the black component in the neutral color areas. This is ideal for printshops that are looking to make a quick start on saving ink and first want to gather some practical experience. These profiles primarily serve to stabilize the printing process and are less suitable for saving ink.

4b) PrintingStandard__SaveStrongxxx_ greatly increases the black component, and targets printshops that have their printing process completely under control in accordance with the applicable standards and have already used SaveNeutral successfully.

4c) PrintingStandard__SaveMax_ increases the black component to the greatest possible extent, and additionally reduces the total amount of color to approx. 20% less than usual according to the industry standard. This calls for very experienced printers and an excellent mastery of standardization.

5) DeviceLink profiles for conversion including ink saving

Even once a printshop has gathered positive experience with saving ink, there are still some applications where the printing data supplied do not comply exactly with the standard later to be used for printing. To get optimum color quality, printing data of this kind needs a combination of color conversion and ink saving. Up to Version CoLoV2 of the Bodoni Systems standard DeviceLink profiles, this required two, separate work steps. First conversion and then ink saving.
With its Version CoLoV3 profiles, Bodoni Systems for the first time provides profiles that incorporate both steps in a single profile. The general nomenclature of these profiles is structured according to the following system: ***SourceColorSpace_to_TargetColorSpace_Savexxx_CoLoV3.icc***.

Example: ***ISOcoatv2_to_uncoat_Save280_CoLoV3.icc*** performs conversion from coated to uncoated paper, saves ink in the process, and limits the total amount of color to 280%.

In this context, the extent of the increase in the black component is slightly greater than when using the combination of color conversion followed by application of a SaveStrong profile for saving ink, but not as great as when applying a SaveMax profile.

6) DeviceLink profiles for converting CMYK data to Gray

When converting CMYK data to Gray using normal ICC printer profiles, 100% black in the CMYK data is not converted to 100% black in the Gray color space. Depending on the source and target profiles, it is instead only converted to 96%, for example. To prevent the resultant rasterization, e.g. of black text, CMYK-to-Gray DeviceLink profiles are also available for all supported printing standards, ensuring that 100% black is also preserved as 100% black in the Gray color space. The nomenclature of these profiles is structured according to the following system: ***SourceColorSpace-to-TargetColorSpace_Gray_CoLoV3.icc***.

These profiles are not listed in this doducment but are part of the Expert, Standard and other sets

7) Testing DeviceLinkSets

Using the demo version of Bodoni Systems inkWIZE, more than 241 DeviceLink profiles which are listed in this document will be installed for testing. With the help of the *Auto Setup* feature explained in the inkWIZE manual, with just a few mouse clicks you can set up configurations and queues for either color conversion, save ink or TAC reduction in order to test the quality of the profiles on your own PDF, TIFF or JPEG files.

8) RGB-to-CMYK Separation Profiles

The advantage of DeviceLink Profiles for separations are improved smoothness and higher saturated separations which would not be possible with ICC Printer Profiles. In addition when creating the profiles we have used the exception to purify primary and secondary colors. For the most important international printing standards we are delivering separation profiles from ***sRGB, AdobeRGB(1998)*** and ***eciRGB V2.*** Special attention has been paid on harmonic separations especially when purifying primary and secondary colors. In cases when this was not entirely possible we resigned from purifying primary colors. These profiles are alternatively called ***CoLoV4***.

The nomenclature of the profiles is structured according to the following system: ***SourceColorSpace-to-TargetColorSpace_TACxxx_CoLoV3.icc***

Basic Set

Color Conversion

ISOcoat_to_coatv2_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOmfc_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOsnp_TAC260_CoLoV3.icc
ISOcoatv2_to_PSRlwcPlusV2_CoLoV3
ISOcoatv2_to_SCpaper_TAC260_CoLoV3.icc
ISOcoatv2_to_uncoat_TAC280_CoLoV3.icc
ISOcoatv2_to_uncoatYellow_TAC280_CoLoV3.icc
ISOcoatv2_to_webcoat_TAC300_CoLoV3.icc
ISOcoatv2_to_news26_TAC240_CoLoV3.icc
ISOuncoat_to_PSOuncoat_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOuncoat_TAC280_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Standard_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Standard_TAC300_CoLoV3.icc

TAC Reduction

ISOcoatedv2_TAC330_CoLoV3.icc
ISOcoatedv2_TAC300_CoLoV3.icc

Standard Set

Color Conversion

ISOcoat_to_coatv2_TAC300_CoLoV3.icc
ISOcoat_to_coatv2_TAC330_CoLoV3.icc
ISOcoatv2_to_cofcoat_TAC300_CoLoV3.icc
ISOcoatv2_to_cofuncoat_TAC280_CoLoV3.icc
ISOcoatv2_to_GRACoL1_TAC320_CoLoV3.icc
ISOcoatv2_to_Jap2001coat_TAC320_CoLoV3.icc
ISOcoatv2_to_Jap2002news_TAC240_CoLoV3.icc
ISOcoatv2_to_Jap2003webcoated_TAC300_CoLoV3.icc
ISOcoatv2_to_news26_TAC240_CoLoV3.icc
ISOcoatv2_to_PSOcoatNP_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOcoatNP_TAC330_CoLoV3.icc
ISOcoatv2_to_PSOmfc_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOsnp_TAC260_CoLoV3.icc
ISOcoatv2_to_PSOuncoatNP_TAC280_CoLoV3.icc
ISOcoatv2_to_PSRhwc_CoLoV3.icc
ISOcoatv2_to_PSRlwcPlusV2_CoLoV3
ISOcoatv2_to_PSRlwcStdV2_CoLoV3
ISOcoatv2_to_PSRmf_CoLoV3.icc
ISOcoatv2_to_PSRscSdtV2_CoLoV3
ISOcoatv2_to_SCpaper_TAC260_CoLoV3.icc
ISOcoatv2_to_SNAP2007_TAC240_CoLoV3.icc
ISOcoatv2_to_SWOP3_TAC300_CoLoV3.icc
ISOcoatv2_to_SWOP5_TAC280_CoLoV3.icc
ISOcoatv2_to_uncoat_TAC280_CoLoV3.icc
ISOcoatv2_to_uncoatYellow_TAC280_CoLoV3.icc
ISOcoatv2_to_webcoat_TAC300_CoLoV3.icc
ISOuncoat_to_cofuncoat_TAC280_CoLoV3.icc
ISOuncoat_to_PSOuncoatNP_TAC280_CoLoV3.icc
ISOuncoat_to_uncoatyellow_TAC280_CoLoV3.icc
ISOwebcoat_to_SWOP3_TAC300_CoLoV3.icc
ISOwebcoat_to_SWOP5_TAC280_CoLoV3.icc
PSRlwc_to_ISOwebcoat_CoLoV3.icc
PSRlwc_to_SWOP3_CoLoV3.icc
GRACoL1_to_ISOcoatv2_TAC300_CoLoV3.icc
GRACoL1_to_ISOnews26_TAC240_CoLoV3.icc
GRACoL1_to_ISOuncoat_TAC280_CoLoV3.icc
GRACoL1_to_ISOwebcoat_TAC300_CoLoV3.icc
GRACoL1_to_SNAP2007_TAC240_CoLoV3.icc
GRACoL1_to_SWOP3_TAC300_CoLoV3.icc
GRACoL1_to_SWOP5_TAC280_CoLoV3.icc
SWOP3_to_ISOwebcoat_TAC300_CoLoV3.icc
SWOP3_to_PSRlwc_CoLoV3.icc
SWOP3_to_SWOP5_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Standard_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOuncoat_TAC280_CoLoV3.icc
ISOuncoat_to_PSOuncoat_TAC280_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Standard_TAC300_CoLoV3.icc
PSOlwc_Improved_to_SWOP3_TAC300_CoLoV3.icc
PSOlwc_Standard_to_SWOP5_TAC300_CoLoV3.icc
PSOuncoat_to_PSOuncoatNP_CoLoV3.icc
GRACoL1_to_PSOlwc_Improved_TAC300_CoLoV3.icc
GRACoL1_to_PSOlwc_Standard_TAC300_CoLoV3.icc
GRACoL1_to_PSOuncoat_TAC280_CoLoV3.icc
SWOP3_to_PSOlwc_Improved_TAC300_CoLoV3.icc
SWOP5_to_PSOlwc_Standard_TAC300_CoLoV3.icc

TAC Reduction

ISOcoatedv2_TAC300_CoLoV3.icc
ISOcoatedv2_TAC330_CoLoV3.icc
ISOcofcoated_TAC300_CoLoV3.icc
ISOcofuncoated_TAC280_CoLoV3.icc
ISOnews26_TAC240_CoLoV3.icc
ISOuncoated_TAC280_CoLoV3.icc
ISOuncoatYellow_TAC280_CoLoV3.icc
ISOwebcoated_TAC300_CoLoV3.icc
PSOcoatedNP_TAC300_CoLoV3.icc
PSOmfc_TAC280_CoLoV3.icc
PSOsnp_TAC260_CoLoV3.icc
PSOuncoatedNP_TAC280_CoLoV3.icc
SCpaperECI_TAC260_CoLoV3.icc
GRACoL1_TAC320_CoLoV3.icc
SNAP2007_TAC240_CoLoV3.icc
SWOP3_TAC300_CoLoV3.icc
SWOP5_TAC280_CoLoV3.icc
PSO_LWC_Improved_TAC300_CoLoV3.icc
PSO_LWC_Standard_TAC300_CoLoV3.icc
PSOuncoated_TAC280_CoLoV3.icc

Sheetfeed Set

Color Conversion

ISOcoat_to_coatv2_TAC300_CoLoV3.icc
ISOcoat_to_coatv2_TAC330_CoLoV3.icc
ISOcoatv2_to_PSOcoatNP_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOcoatNP_TAC330_CoLoV3.icc
ISOcoatv2_to_PSOuncoatNP_TAC280_CoLoV3.icc
ISOcoatv2_to_uncoat_TAC280_CoLoV3.icc
ISOcoatv2_to_uncoatYellow_TAC280_CoLoV3.icc
ISOuncoat_to_PSOuncoatNP_TAC280_CoLoV3.icc
ISOuncoat_to_uncoatyellow_TAC280_CoLoV3.icc
GRACoL1_to_ISOcoatv2_TAC300_CoLoV3.icc
GRACoL1_to_ISOuncoat_TAC280_CoLoV3.icc
GRACoL1_to_PSOuncoated_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOuncoat_TAC280_CoLoV3.icc
ISOuncoat_to_PSOuncoat_TAC280_CoLoV3.icc
PSOuncoat_to_PSOuncoatNP_TAC280_CoLoV3.icc

TAC Reduction

ISOcoatedv2_TAC300_CoLoV3.icc
ISOcoatedv2_TAC330_CoLoV3.icc
ISOuncoated_TAC280_CoLoV3.icc
ISOuncoatYellow_TAC280_CoLoV3.icc
PSOcoatedNP_TAC300_CoLoV3.icc
PSOuncoatedNP_TAC280_CoLoV3.icc
PSOuncoated_TAC280_CoLoV3.icc

Save Ink

ISOcoated_v2_SaveNeutral_CoLoV3.icc
ISOcoated_v2_SaveStrong_CoLoV3.icc
ISOcoatedv2_SaveMax_ColoV3.icc
ISOuncoated_SaveMax_ColoV3.icc
ISOuncoated_SaveNeutral_CoLoV3.icc
ISOuncoated_SaveStrong_CoLoV3.icc
ISOuncoatYellow_SaveMax_ColoV3.icc
ISOuncoatYellow_SaveNeutral_CoLoV3.icc
ISOuncoatYellow_SaveStrong_CoLoV3.icc
PSOcoatedNP_SaveMax_ColoV3.icc
PSOcoatedNP_SaveNeutral_CoLoV3.icc
PSOcoatedNP_SaveStrong_CoLoV3.icc
PSOuncoatedNP_SaveMax_ColoV3.icc
PSOuncoatedNP_SaveNeutral_CoLoV3.icc
PSOuncoatedNP_SaveStrong_CoLoV3.icc
PSOuncoated_SaveMax_CoLoV3.icc
PSOuncoated_SaveNeutral_CoLoV3.icc
PSOuncoated_SaveStrong_CoLoV3.icc

Color Conversion plus Save Ink

ISOcoatv2_to_PSOuncoatNP_Save300_CoLoV3.icc
ISOcoatv2_to_uncoat_Save280_CoLoV3.icc
ISOcoatv2_to_uncoatyellow_Save280_CoLoV3.icc
ISOuncoat_to_ISOuncoatyellow_Save280_CoLoV3.icc
ISOuncoat_to_PSOuncoatNP_Save280_CoLoV3.icc
GRACoL1_to_ISOcoatv2_Save300_CoLoV3.icc
ISOcoatv2_to_PSOuncoat_Save280_CoLoV3.icc
ISOuncoat_to_PSOuncoat_Save280_CoLoV3.icc
GRACoL1_to_PSOuncoat_Save280_CoLoV3.icc
PSOuncoat_to_PSOuncoatNP_Save280_CoLoV3.icc

Heatset Set

Color Conversion

ISOcoatv2_to_PSOmfc_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOsnp_TAC260_CoLoV3.icc
ISOcoatv2_to_SCpaper_TAC260_CoLoV3.icc
ISOcoatv2_to_webcoat_TAC300_CoLoV3.icc
PSRlwc_to_ISOwebcoat_CoLoV3.icc
GRACoL1_to_ISOcoatv2_TAC300_CoLoV3.icc
SWOP3_to_ISOwebcoat_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Standard_TAC300_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Standard_TAC300_CoLoV3.icc
PSOlwc_Improved_to_SWOP3_TAC300_CoLoV3.icc
PSOlwc_Standard_to_SWOP5_TAC300_CoLoV3.icc
GRACoL1_to_PSOlwc_Improved_TAC280_CoLoV3.icc
SWOP3_to_PSOlwc_Improved_TAC300_CoLoV3.icc
SWOP5_to_PSOlwc_Standard_TAC300_CoLoV3.icc

TAC Reduction

ISOcoatedv2_TAC300_CoLoV3.icc
ISOwebcoated_TAC300_CoLoV3.icc
PSOmfc_TAC280_CoLoV3.icc
PSOsnp_TAC260_CoLoV3.icc
SCpaperECI_TAC260_CoLoV3.icc
PSO_LWC_Improved_TAC300_CoLoV3.icc
PSO_LWC_Standard_TAC300_CoLoV3.icc

Save Ink

ISOcoated_v2_SaveNeutral_CoLoV3.icc
ISOcoated_v2_SaveStrong_CoLoV3.icc
ISOcoatedv2_SaveMax_ColoV3.icc
ISOwebcoated_SaveMax_ColoV3.icc
ISOwebcoated_SaveNeutral_CoLoV3.icc
ISOwebcoated_SaveStrong_CoLoV3.icc
PSOmfc_SaveMax_ColoV3.icc
PSOmfc_SaveNeutral_CoLoV3.icc
PSOmfc_SaveStrong_CoLoV3.icc
PSOsnp_SaveMax_ColoV3.icc
PSOsnp_SaveNeutral_CoLoV3.icc
PSOsnp_SaveStrong_CoLoV3.icc
SCpaperECI_SaveMax_ColoV3.icc
SCpaperECI_SaveNeutral_CoLoV3.icc
SCpaperECI_SaveStrong_CoLoV3.icc
PSOlwc_Improved_SaveMax_CoLoV3.icc
PSOlwc_Improved_SaveNeutral_CoLoV3.icc
PSOlwc_Improved_SaveStrong_CoLoV3.icc
PSOlwc_Standard_SaveMax.icc
PSOlwc_Standard_SaveNeutral.icc
PSOlwc_Standard_SaveStrong.icc

Color Conversion plus Save Ink

ISOcoatv2_to_PSOcoatNP_Save300_CoLoV3.icc
ISOcoatv2_to_PSOmfc_Save280_CoLoV3.icc
ISOcoatv2_to_PSOsnp_Save260_CoLoV3.icc
ISOcoatv2_to_SCpaperECI_Save260_CoLoV3.icc
ISOcoatv2_to_webcoat_Save300_CoLoV3.icc
GRACoL1_to_ISOcoatv2_Save300_CoLoV3.icc
SWOP3_to_ISOwebcoat_Save300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Improved_Save300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Standard_Save300_CoLoV3.ic
ISOwebcoat_to_PSOlwc_Improved_Save300_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Standard_Save300_CoLoV3.icc
PSOlwc_Improved_to_SWOP3_Save300_CoLoV3.icc
PSOlwc_Standard_to_SWOP5_Save300_CoLoV3.icc
GRACoL1_to_PSOlwc_Improved_Save300_CoLoV3.icc
GRACoL1_to_PSOlwc_Standard_Save300_CoLoV3.icc
SWOP3_to_PSOlwc_Improved_Save300_CoLoV3.icc
SWOP5_to_PSOlwc_Standard_Save300_CoLoV3.icc

Continous Tone Set

Color Conversion
ISOcoatv2_to_cofcoat_TAC300_CoLoV3.icc
ISOcoatv2_to_cofuncoat_TAC280_CoLoV3.icc
ISOuncoat_to_cofuncoat_TAC280_CoLoV3.icc

TAC Reduction
ISOcofcoated_TAC300_CoLoV3.icc
ISOcofuncoated_TAC280_CoLoV3.icc

Save Ink
ISOcofcoated_SaveMax_ColoV3.icc
ISOcofcoated_SaveNeutral_CoLoV3.icc
ISOcofcoated_SaveStrong_CoLoV3.icc
ISOcofuncoated_SaveMax_ColoV3.icc
ISOcofuncoated_SaveNeutral_CoLoV3.icc
ISOcofuncoated_SaveStrong_CoLoV3.icc

Color Conversion plus Save Ink
ISOcoatv2_to_cofcoat_Save300_CoLoV3.icc
ISOcoatv2_to_cofuncoat_Save280_CoLoV3.icc
ISOuncoat_to_ISOcofuncoat_Save280_CoLoV3.icc

Newsprint Set

Color Conversion
ISOcoatv2_to_news26_TAC240_CoLoV3.icc
ISOcoatv2_to_SNAP2007_TAC240_CoLoV3.icc
ISOcoatv2_to_PSOsnp_TAC260_CoLoV3.icc
ISOcoatv2_to_Jap2002news_TAC240_CoLoV3.icc
GRACoL1_to_SNAP2007_TAC240_CoLoV3.icc
GRACoL1_to_ISOnews26_TAC240_CoLoV3.icc

TAC Reduction
ISOnews26_TAC240_CoLoV3.icc
SNAP2007_TAC240_CoLoV3.icc
PSOsnp_TAC260_CoLoV3.icc

Save Ink
ISOnews26_SaveMax200_ColoV3.icc
ISOnews26_SaveMax240_ColoV3.icc
ISOnews26_SaveStrong200_CoLoV3.icc
ISOnews26_SaveStrong240_CoLoV3.icc
PSOsnp_SaveMax_ColoV3.icc
PSOsnp_SaveNeutral_CoLoV3.icc
PSOsnp_SaveStrong_CoLoV3.icc
SNAP2007_SaveMax200_CoLoV3.icc
SNAP2007_SaveMax240_CoLoV3.icc
SNAP2007_SaveStrong200_CoLoV3.icc
SNAP2007_SaveStrong240_CoLoV3.icc
JapanColor2002Newspaper_SaveMax_CoLoV3.icc
JapanColor2002Newspaper_SaveNeutral_CoLoV3.icc
JapanColor2002Newspaper_SaveStrong_CoLoV3.icc

Color Conversion plus Save Ink
ISOcoatv2_to_ISOnews26_Save200_CoLoV3.icc
ISOcoatv2_to_ISOnews26_Save240_CoLoV3.icc
ISOcoatv2_to_PSOsnp_Save260_CoLoV3.icc
GRACoL1_to_SNAP2007_Save240_CoLoV3.icc

Japan Print Set

Color Conversion
ISOcoatv2_to_Jap2001coat_TAC320_CoLoV3.icc
ISOcoatv2_to_Jap2002news_TAC240_CoLoV3.icc
ISOcoatv2_to_Jap2003webcoated_TAC300_CoLoV3.icc

Save Ink
JapanColor2001Coated_SaveMax_CoLoV3.icc
JapanColor2001Coated_SaveNeutral_CoLoV3.icc
JapanColor2001Coated_SaveStrong_CoLoV3.icc
JapanColor2001Uncoated_SaveMax_CoLoV3.icc
JapanColor2001Uncoated_SaveNeutral_CoLoV3.icc
JapanColor2001Uncoated_SaveStrong_CoLoV3.icc
JapanColor2002Newspaper_SaveMax_CoLoV3.icc
JapanColor2002Newspaper_SaveNeutral_CoLoV3.icc
JapanColor2002Newspaper_SaveStrong_CoLoV3.icc
JapanColor2003WebCoated_SaveMax_CoLoV3.icc
JapanColor2003WebCoated_SaveNeutral_CoLoV3.icc
JapanColor2003WebCoated_SaveStrong_CoLoV3.icc
JapanWebCoated_Ad_SaveMax_CoLoV3.icc
JapanWebCoated_Ad_SaveNeutral_CoLoV3.icc
JapanWebCoated_Ad_SaveStrong_CoLoV3.icc

Gravure Print Set

Color Conversion
ISOcoatv2_to_PSRlwcPlusV2_CoLoV3
ISOcoatv2_to_PSRlwcStdV2_CoLoV3
ISOcoatv2_to_PSRscSdtV2_CoLoV3
PSOlwcPlus_to_PSRlwcPlusV2_CoLoV3
PSOlwcStd_to_PSRlwcStdV2_CoLoV3
PSOscPaper_to_PSRscStdV2_CoLoV3
PSRlwcPlusV2_to_PSOlwcPlus_CoLoV3
PSRlwcStdV2_to_PSOlwcStd_CoLoV3
PSRscStdV2_to_PSOscPaper_CoLoV3
PSRhwc_to_PSRlwcPlusV2_CoLoV3
PSRlwc_to_PSRlwcStdV2_CoLoV3
PSRsc_to_PSRscStdV2_CoLoV3
PSRlwcPLusV2_to_SWOP3_CoLoV3
PSRlwcStdV2_to_SWOP5_CoLoV3
SWOP3_to_PSRlwcPLusV2_CoLoV3
SWOP5_to_PSRlwcStdV2_CoLoV3

RGB-to-CMYK Separation Set

Separation from AdobeRGB1998.icc
AdobeRGB_to_ISOcoatV2_TAC330_CoLoV3.icc
AdobeRGB_to_ISOnews26_CoLoV4.icc.
AdobeRGB_to_PSOlwc_Improved_TAC300_CoLoV3.icc
AdobeRGB_to_PSOlwc_Standard_TAC300_CoLoV3.icc
AdobeRGB_to_PSOuncoated_TAC280_CoLoV3.icc

Separation from sRGB Color Space Profile.icm
sRGB_to_ISOcoatV2_TAC330_CoLoV3.icc
sRGB_to_ISOnews26_CoLoV4.icc.
sRGB_to_PSOlwc_Improved_TAC300_CoLoV3.icc
sRGB_to_PSOlwc_Standard_TAC300_CoLoV3.icc
sRGB_to_PSOuncoated_TAC280_CoLoV3.icc

Separation from eciRGB_v2.icc
eciRGBv2_to_ISOcoatV2_TAC330_CoLoV3.icc
eciRGBv2_to_ISOnews26_CoLoV4.icc.
eciRGBv2_to_PSOlwc_Improved_TAC300_CoLoV3.icc
eciRGBv2_to_PSOlwc_Standard_TAC300_CoLoV3.icc
eciRGBv2_to_PSOuncoated_TAC280_CoLoV3.icc

Expert Set

Separation from AdobeRGB1998.icc
AdobeRGB_to_ISOcoatV2_TAC330_CoLoV3.icc
AdobeRGB_to_ISOnews26_CoLoV4.icc.
AdobeRGB_to_PSOlwc_Improved_TAC300_CoLoV3.icc
AdobeRGB_to_PSOlwc_Standard_TAC300_CoLoV3.icc
AdobeRGB_to_PSOuncoated_TAC280_CoLoV3.icc

Separation from sRGB Color Space Profile.icm
sRGB_to_ISOcoatV2_TAC330_CoLoV3.icc
sRGB_to_ISOnews26_CoLoV4.icc.
sRGB_to_PSOlwc_Improved_TAC300_CoLoV3.icc
sRGB_to_PSOlwc_Standard_TAC300_CoLoV3.icc
sRGB_to_PSOuncoated_TAC280_CoLoV3.icc

Separation from eciRGB_v2.icc
eciRGBv2_to_ISOcoatV2_TAC330_CoLoV3.icc
eciRGBv2_to_ISOnews26_CoLoV4.icc.
eciRGBv2_to_PSOlwc_Improved_TAC300_CoLoV3.icc
eciRGBv2_to_PSOlwc_Standard_TAC300_CoLoV3.icc
eciRGBv2_to_PSOuncoated_TAC280_CoLoV3.icc

Color Conversion
ISOcoat_to_coatv2_TAC300_CoLoV3.icc
ISOcoat_to_coatv2_TAC330_CoLoV3.icc
ISOcoatv2_to_cofcoat_TAC300_CoLoV3.icc
ISOcoatv2_to_cofuncoat_TAC280_CoLoV3.icc
ISOcoatv2_to_GRACoL1_TAC320_CoLoV3.icc
ISOcoatv2_to_Jap2001coat_TAC320_CoLoV3.icc
ISOcoatv2_to_Jap2002news_TAC240_CoLoV3.icc
ISOcoatv2_to_Jap2003webcoated_TAC300_CoLoV3.icc
ISOcoatv2_to_news26_TAC240_CoLoV3.icc
ISOcoatv2_to_PSOcoatNP_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOcoatNP_TAC330_CoLoV3.icc
ISOcoatv2_to_PSOmfc_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOsnp_TAC260_CoLoV3.icc
ISOcoatv2_to_PSOuncoatNP_TAC280_CoLoV3.icc
ISOcoatv2_to_PSRhwc_CoLoV3.icc
ISOcoatv2_to_PSRlwcPlusV2_CoLoV3
ISOcoatv2_to_PSRlwcStdV2_CoLoV3
ISOcoatv2_to_PSRmf_CoLoV3.icc
ISOcoatv2_to_PSRscSdtV2_CoLoV3
ISOcoatv2_to_SCpaper_TAC260_CoLoV3.icc
ISOcoatv2_to_SNAP2007_TAC240_CoLoV3.icc
ISOcoatv2_to_SWOP3_TAC300_CoLoV3.icc
ISOcoatv2_to_SWOP5_TAC280_CoLoV3.icc
ISOcoatv2_to_uncoat_TAC280_CoLoV3.icc
ISOcoatv2_to_uncoatYellow_TAC280_CoLoV3.icc
ISOcoatv2_to_webcoat_TAC300_CoLoV3.icc
ISOuncoat_to_cofuncoat_TAC280_CoLoV3.icc
ISOuncoat_to_PSOuncoatNP_TAC280_CoLoV3.icc
ISOuncoat_to_uncoatYellow_TAC280_CoLoV3.icc
ISOwebcoat_to_SWOP3_TAC300_CoLoV3.icc
ISOwebcoat_to_SWOP5_TAC280_CoLoV3.icc
PSRlwc_to_ISOwebcoat_CoLoV3.icc
PSRlwc_to_SWOP3_CoLoV3.icc
GRACoL1_to_ISOcoatv2_TAC300_CoLoV3.icc
GRACoL1_to_ISOnews26_TAC240_CoLoV3.icc
GRACoL1_to_ISOuncoat_TAC280_CoLoV3.icc
GRACoL1_to_ISOwebcoat_TAC300_CoLoV3.icc
GRACoL1_to_SNAP2007_TAC240_CoLoV3.icc
GRACoL1_to_SWOP3_TAC300_CoLoV3.icc
GRACoL1_to_SWOP5_TAC280_CoLoV3.icc
SWOP3_to_ISOwebcoat_TAC300_CoLoV3.icc
SWOP3_to_PSRlwc_CoLoV3.icc
SWOP3_to_SWOP5_TAC280_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Standard_TAC300_CoLoV3.icc
ISOcoatv2_to_PSOuncoat_TAC280_CoLoV3.icc
ISOuncoat_to_PSOuncoat_TAC280_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Improved_TAC300_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Standard_TAC300_CoLoV3.icc
PSOlwc_Improved_to_SWOP3_TAC300_CoLoV3.icc
PSOlwc_Standard_to_SWOP5_TAC300_CoLoV3.icc
PSOuncoat_to_PSOuncoatNP_CoLoV3.icc
GRACoL1_to_PSOlwc_Improved_TAC300_CoLoV3.icc
GRACoL1_to_PSOlwc_Standard_TAC300_CoLoV3.icc
GRACoL1_to_PSOuncoat_TAC280_CoLoV3.icc
SWOP3_to_PSOlwc_Improved_TAC300_CoLoV3.icc
SWOP5_to_PSOlwc_Standard_TAC300_CoLoV3.icc
PSOlwcPlus_to_PSRlwcPlusV2_CoLoV3
PSOlwcStd_to_PSRlwcStdV2_CoLoV3
PSOscPaper_to_PSRscStdV2_CoLoV3
PSRlwcPlusV2_to_PSOlwcPlus_CoLoV3
PSRlwcStdV2_to_PSOlwcStd_CoLoV3
PSRscStdV2_to_PSOscPaper_CoLoV3
PSRhwc_to_PSRlwcPlusV2_CoLoV3
PSRlwc_to_PSRlwcStdV2_CoLoV3
PSRsc_to_PSRscStdV2_CoLoV3
PSRlwcPLusV2_to_SWOP3_CoLoV3
PSRlwcStdV2_to_SWOP5_CoLoV3
SWOP3_to_PSRlwcPLusV2_CoLoV3
SWOP5_to_PSRlwcStdV2_CoLoV3

TAC Reduction
GRACoL1_TAC320_CoLoV3.icc
ISOcoatedv2_TAC300_CoLoV3.icc
ISOcoatedv2_TAC330_CoLoV3.icc
ISOcofcoated_TAC300_CoLoV3.icc
ISOcofuncoated_TAC280_CoLoV3.icc
ISOnews26_TAC240_CoLoV3.icc
ISOuncoated_TAC280_CoLoV3.icc

Expert Set - continuation

ISOuncoatyellow_TAC280_CoLoV3.icc
ISOwebcoated_TAC300_CoLoV3.icc
PSOcoatedNP_TAC300_CoLoV3.icc
PSOmfc_TAC280_CoLoV3.icc
PSOsnp_TAC260_CoLoV3.icc
PSOuncoatedNP_TAC280_CoLoV3.icc
SCpaperECI_TAC260_CoLoV3.icc
SNAP2007_TAC240_CoLoV3.icc
SWOP3_TAC300_CoLoV3.icc
SWOP5_TAC280_CoLoV3.icc
PSO_LWC_Improved_TAC300_CoLoV3.icc
PSO_LWC_Standard_TAC300_CoLoV3.icc
PSOuncoated_TAC280_CoLoV3.icc

Save Ink
ISOcoated_v2_SaveNeutral_CoLoV3.icc
ISOcoated_v2_SaveStrong_CoLoV3.icc
ISOcoatedv2_SaveMax_ColoV3.icc
ISOcofcoated_SaveMax_ColoV3.icc
ISOcofcoated_SaveNeutral_CoLoV3.icc
ISOcofcoated_SaveStrong_CoLoV3.icc
ISOcofuncoated_SaveMax_ColoV3.icc
ISOcofuncoated_SaveNeutral_CoLoV3.icc
ISOcofuncoated_SaveStrong_CoLoV3.icc
ISOnews26_SaveMax200_ColoV3.icc
ISOnews26_SaveMax240_ColoV3.icc
ISOnews26_SaveStrong200_CoLoV3.icc
ISOnews26_SaveStrong240_CoLoV3.icc
ISOuncoated_SaveMax_ColoV3.icc
ISOuncoated_SaveNeutral_CoLoV3.icc
ISOuncoated_SaveStrong_CoLoV3.icc
ISOuncoatYellow_SaveMax_ColoV3.icc
ISOuncoatYellow_SaveNeutral_CoLoV3.icc
ISOuncoatYellow_SaveStrong_CoLoV3.icc
ISOwebcoated_SaveMax_ColoV3.icc
ISOwebcoated_SaveNeutral_CoLoV3.icc
ISOwebcoated_SaveStrong_CoLoV3.icc
PSOcoatedNP_SaveMax_ColoV3.icc
PSOcoatedNP_SaveNeutral_CoLoV3.icc
PSOcoatedNP_SaveStrong_CoLoV3.icc
PSOmfc_SaveMax_ColoV3.icc
PSOmfc_SaveNeutral_CoLoV3.icc
PSOmfc_SaveStrong_CoLoV3.icc
PSOsnp_SaveMax_ColoV3.icc
PSOsnp_SaveNeutral_CoLoV3.icc
PSOsnp_SaveStrong_CoLoV3.icc
PSOuncoatedNP_SaveMax_ColoV3.icc
PSOuncoatedNP_SaveNeutral_CoLoV3.icc
PSOuncoatedNP_SaveStrong_CoLoV3.icc
SCpaperECI_SaveMax_ColoV3.icc
SCpaperECI_SaveNeutral_CoLoV3.icc
SCpaperECI_SaveStrong_CoLoV3.icc
JapanColor2001Coated_SaveMax_CoLoV3.icc
JapanColor2001Coated_SaveNeutral_CoLoV3.icc
JapanColor2001Coated_SaveStrong_CoLoV3.icc
JapanColor2001Uncoated_SaveMax_CoLoV3.icc
JapanColor2001Uncoated_SaveNeutral_CoLoV3.icc
JapanColor2001Uncoated_SaveStrong_CoLoV3.icc
JapanColor2002Newspaper_SaveMax_CoLoV3.icc
JapanColor2002Newspaper_SaveNeutral_CoLoV3.icc
JapanColor2002Newspaper_SaveStrong_CoLoV3.icc
JapanColor2003WebCoated_SaveMax_CoLoV3.icc
JapanColor2003WebCoated_SaveNeutral_CoLoV3.icc
JapanColor2003WebCoated_SaveStrong_CoLoV3.icc
GRACoL1_SaveMax_ColoV3.icc
GRACoL1_SaveNeutral_CoLoV3.icc
GRACoL1_SaveStrong_CoLoV3.icc
SNAP2007_SaveMax200_CoLoV3.icc
SNAP2007_SaveMax240_CoLoV3.icc
SNAP2007_SaveStrong200_CoLoV3.icc
SNAP2007_SaveStrong240_CoLoV3.icc
SWOP3_SaveMax_ColoV3.icc
SWOP3_SaveNeutral_CoLoV3.icc
SWOP3_SaveStrong_CoLoV3.icc
SWOP5_SaveMax_ColoV3.icc
SWOP5_SaveNeutral_CoLoV3.icc
SWOP5_SaveStrong_CoLoV3.icc
PSOlwc_Improved_SaveMax_CoLoV3.icc
PSOlwc_Improved_SaveNeutral_CoLoV3.icc
PSOlwc_Improved_SaveStrong_CoLoV3.icc
PSOlwc_Standard_SaveMax.icc
PSOlwc_Standard_SaveNeutral.icc
PSOlwc_Standard_SaveStrong.icc
PSOuncoated_SaveMax_CoLoV3.icc
PSOuncoated_SaveNeutral_CoLoV3.icc
PSOuncoated_SaveStrong_CoLoV3.icc
JapanWebCoated_Ad_SaveMax_CoLoV3.icc
JapanWebCoated_Ad_SaveNeutral_CoLoV3.icc
JapanWebCoated_Ad_SaveStrong_CoLoV3.icc

Color Conversion plus Save Ink
ISOcoatv2_to_cofcoat_Save300_CoLoV3.icc
ISOcoatv2_to_cofuncoat_Save280_CoLoV3.icc
ISOcoatv2_to_GRACoL1_Save300_CoLoV3.icc
ISOcoatv2_to_ISOnews26_Save200_CoLoV3.icc
ISOcoatv2_to_ISOnews26_Save240_CoLoV3.icc
ISOcoatv2_to_PSOcoatNP_Save300_CoLoV3.icc
ISOcoatv2_to_PSOmfc_Save280_CoLoV3.icc
ISOcoatv2_to_PSOsnp_Save260_CoLoV3.icc
ISOcoatv2_to_PSOuncoatNP_Save300_CoLoV3.icc
ISOcoatv2_to_SCpaperECI_Save260_CoLoV3.icc
ISOcoatv2_to_SNAP2007_Save240_CoLoV3.icc
ISOcoatv2_to_SWOP3_Save300_CoLoV3.icc
ISOcoatv2_to_SWOP5_Save280_CoLoV3.icc
ISOcoatv2_to_uncoat_Save280_CoLoV3.icc
ISOcoatv2_to_uncoatyellow_Save280_CoLoV3.icc
ISOcoatv2_to_webcoat_Save300_CoLoV3.icc
ISOuncoat_to_ISOcofuncoat_Save280_CoLoV3.icc
ISOuncoat_to_ISOuncoatyellow_Save280_CoLoV3.icc
ISOuncoat_to_PSOuncoatNP_Save280_CoLoV3.icc
ISOwebcoat_to_SWOP3_Save300_CoLoV3.icc
ISOwebcoat_to_SWOP5_Save280_CoLoV3.icc
GRACoL1_to_ISOcoatv2_Save300_CoLoV3.icc
GRACoL1_to_ISOnews26_Save240_CoLoV3.icc
GRACoL1_to_ISOuncoat_Save280_CoLoV3.icc
GRACoL1_to_ISOuncoatyellow_Save280_CoLoV3.icc
GRACoL1_to_ISOwebcoat_Save300_CoLoV3.icc
GRACoL1_to_SNAP2007_Save240_CoLoV3.icc
GRACoL1_to_SWOP3_Save300_CoLoV3.icc
GRACoL1_to_SWOP5_Save280_CoLoV3.icc
SWOP3_to_ISOwebcoat_Save300_CoLoV3.icc
SWOP3_to_SWOP5_Save280_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Improved_Save300_CoLoV3.icc
ISOcoatv2_to_PSOlwc_Standard_Save300_CoLoV3.icc
ISOcoatv2_to_PSOuncoat_Save280_CoLoV3.icc
ISOuncoat_to_PSOuncoat_Save280_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Improved_Save300_CoLoV3.icc
ISOwebcoat_to_PSOlwc_Standard_Save300_CoLoV3.icc
PSOlwc_Improved_to_SWOP3_Save300_CoLoV3.icc
PSOlwc_Standard_to_SWOP5_Save300_CoLoV3.icc
PSOuncoat_to_PSOuncoatNP_Save280_CoLoV3.ic
GRACoL1_to_PSOlwc_Improved_Save300_CoLoV3.icc
GRACoL1_to_PSOlwc_Standard_Save300_CoLoV3.icc
SWOP3_to_PSOlwc_Improved_Save300_CoLoV3.icc
SWOP5_to_PSOlwc_Standard_Save300_CoLoV3.icc

General information on the file size of Bodoni Systems standard profiles

If the file size of a Bodoni Systems standard DeviceLink profile is compared with that of a customary ICC device profile, such as ISOcoated_v2, it is easy to see that the DeviceLink profile is much smaller in file size.
The following information is intended for technically interested users, and describes why all Bodoni Systems standard DeviceLink profiles produce very high-quality color transformations, despite their small file size.

When comparing the size of an ICC device profile for printing and that of a DeviceLink profile, it should be remembered that an ICC device profile internally consists of six main tables. This is a result of the fact that an ICC device profile can be used both as a source profile (e.g. for soft proofing) and as a target profile (e.g. for separation). There are then also different conversion tables (rendering intents) for each direction.
In contrast, a DeviceLink profile is tailor-made for a single application, and therefore contains a single table, instead of six tables.

Moreover, when creating a DeviceLink profile, there is the possibility of specifying the number of interpolation nodes used to calculate the main table, this table ideally being supplemented by a further table containing the basic gradation (linearization) of the device. A carefully calculated table for the basic gradation is an important prerequisite for being able to manage with fewer interpolation nodes in the main table.

Furthermore, it is important that the starting profiles used to calculate a DeviceLink profile be as smooth and harmonious as possible. Characterization data for standard printing conditions, such as FOGRA / ECI or GRACoL / SWOP, are carefully optimized and smoothed. If DeviceLink profiles for color conversion, TAC limitation or ink saving are calculated on this basis, main tables with 11 interpolation nodes suffice if the basic gradation is of high quality. If DeviceLink profiles are to be used for in-house standards that describe less smooth and harmonious printing processes, such as flexo printing, it is advisable to use more interpolation nodes (e.g. 17) in the main table.

The Bodoni Systems standard DeviceLink profiles were calculated using software which permits different numbers of interpolation nodes, and thus file sizes, when calculating a DeviceLink profile.
Before creating the Bodoni Systems standard profiles, we investigated whether and to what extent a maximum file size offers quality advantages compared to a large file size. As a result of the careful smoothing of ECI / GRACoL and SWOP profiles, there are no differences of relevance to production in this respect.

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