



LET'S
CONNECT

INTERNATIONAL
PRINECT USER DAYS



Central Color Database Guidance to Easy Usage

Who's here with you today



Bernd Utter

Product Manager Prinect Press

Responsible for:

- Prinect Color Measurement Systems
- Prinect Color Workflow Components
- Print Color Management and ISO 12647-2 Certification

Agenda



Bernd Utter, Product Management

1. Motivation for the Central Color Database in the Prinect Production Manager
2. Which Color Measurement Systems and presses can be connected
3. Copying data from a local archive to the Central Color Database
4. Import and Export of CxF Data

Stefan Schenk, R&D Prinect

5. Outlook to a new structure with a Unique Color ID



1. Motivation for the Central Color Database in the Prinect Production Manager

Safer, Faster, More Flexible

Outsourcing central color data from the press to a database

- Saving Lab values (+ Spectra and Densities) of the Prinect Color Measurement Systems
- Import of CxF data e.g., from an ink kitchen
- Export of CxF data e.g., to a Proofing or Digital Print System

Advantages

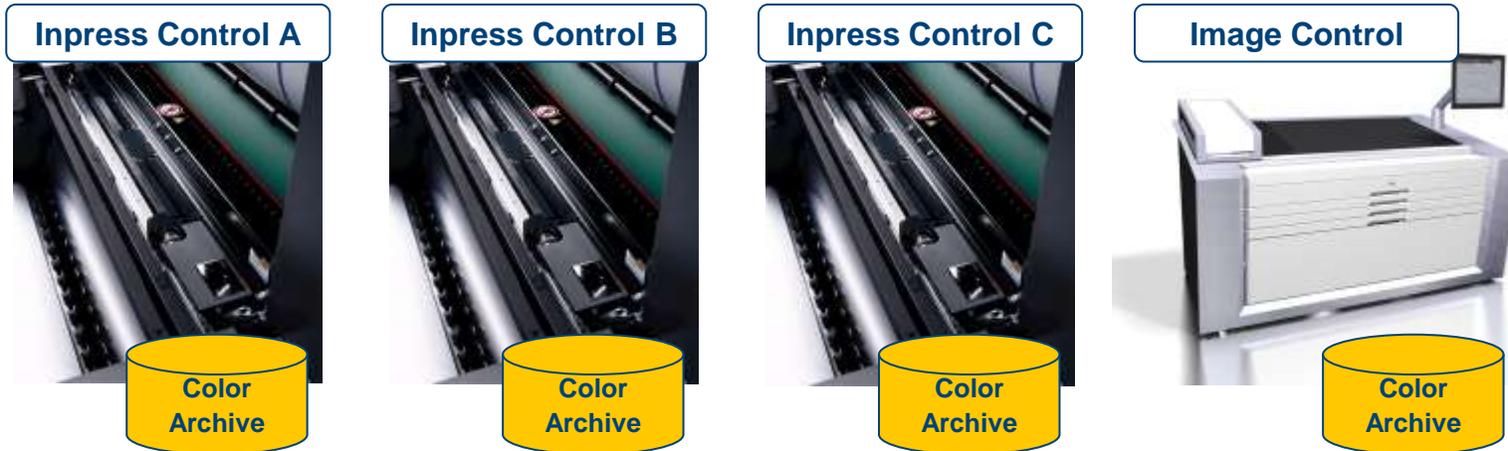
- Safer production while identical targets on all machines
- Faster due to elimination of multiple entries
- Relief of the printer in case of changes
- Adoption of self-created color values from HDM measuring systems and third-party systems (CxF)
- Color samples don't need to be measured at the press, if data have been already imported
- Wider integration by Import-Export function





Local Color Archive until Press Center Software S19B

Each Prinect Color Measurement System had its own color archive



The data couldn't be exchanged or copied among the measuring systems

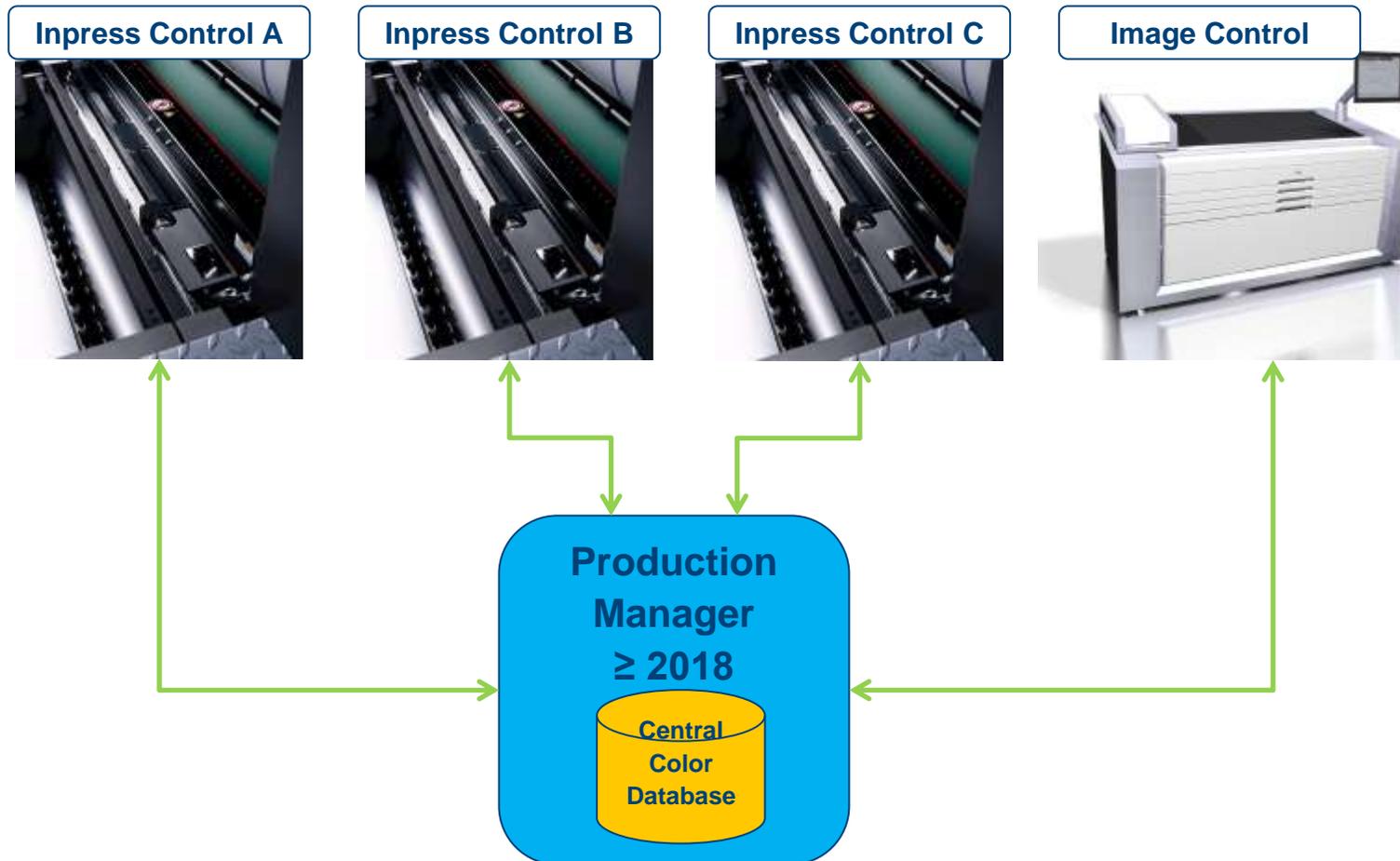
Samples must have been measured separately on each device > time consuming

No possibility to use external data



Central Color Database

All Prinect Color Measurement Systems access a central color archive in the Prinect Production Manager. The local archive is eliminated.





2. Which Color Measurement Systems and presses can be connected?

Prinect Workflow

Since Prinect Production Manager 2018, the Central Color Database is included

We recommend always the latest version, because new features will be added continuously

Printing Presses since Drupa 2016

→ Inpress Control 2, Axis Control, Easy Control

→ Only with Press Center 2/3 or Press Center XL 2/3

→ Included as of software version S18A.08

Printing Presses with Prinect Press Center / Prinect Press Center Compact before Drupa 2016

→ Only with software version S15B.18 or higher

→ Color data must be copied to the local archive and vice versa, no direct online operation possible

Prinect Image Control

→ Prinect Image Control 3/4 as of software version S17B.03_IC

→ Prinect Image Control NG as of software version I14A.08



Connectivity of the Prinect Color Measurement Systems

With software S18A.08 - S19B.xx



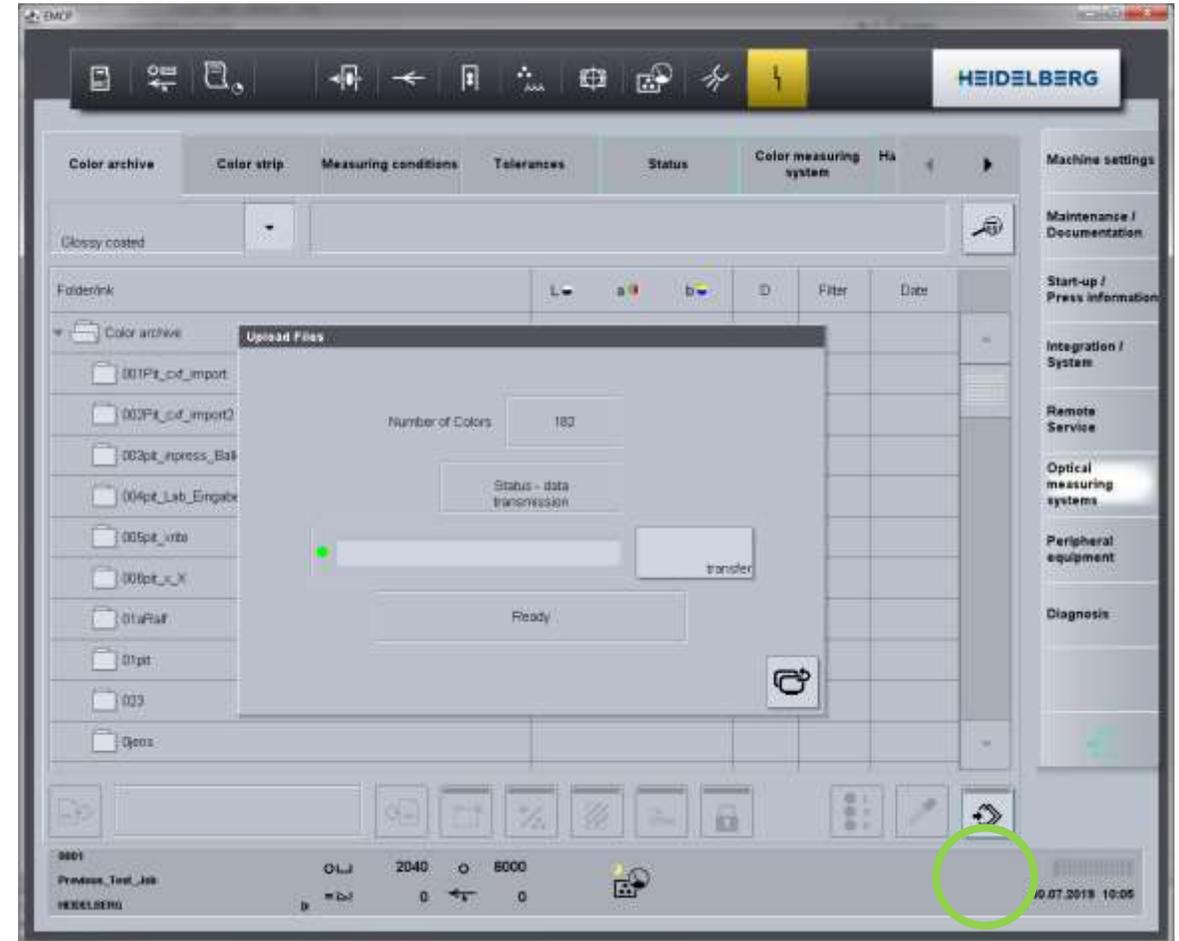
As of software S20A = **no more local color archive!**



3. Copying data from a local archive to the Central Color Database

Data are copied by a service engineer from local hard disk to the Central Color Database

- Process can be executed remotely, restart of machine required
- Thereafter the local archive is no longer in use
- Pantone, HKS and FOGRA51-52 are not copied, they are already existing
- Only colors which have been generated by the press operator will be copied



Prinect Cockpit View



The screenshot displays the Prinect Cockpit View interface, which is divided into several sections:

- Overview:** Shows a hierarchy of folders and colors. A yellow arrow points from the 'Abdruck' folder in the 'Colors' section to a detailed view of the 'Abdruck' folder.
- Machine's Directory:** A detailed view of the 'Abdruck' folder, showing its path and associated data. A yellow arrow points from the folder name to this view.
- Colors:** A table listing various colors with their L*a*b* values and paper types. A yellow arrow points from the 'Abdruck' color in this table to its properties.
- Color Properties:** A detailed view of the selected color, showing its spectrum, paper type, density, trapping, and opacity. A yellow arrow points from the 'Abdruck' color in the 'Colors' table to this view.
- Measured Values:** A graph showing the color spectrum, with a curve displayed. A yellow arrow points from the 'Abdruck' color in the 'Colors' table to this graph.

Color Properties (If a curve is displayed, a color spectrum is available)

Colors (L*a*b* values)

- Gloss coated
- Matt coated
- Uncoated



Machines with Software S15B Colors Must be Copied

Local Server

Synchronize database and local archive

Color set / color	L	a	b
PANTONE_Goe			
PANTONE_Plus			
pt_import_cif			
B	10.8	0.3	1.6
C	54.8	-35.1	-48.3
M	48.4	73.7	-4.0
Y	87.9	-5.9	81.1
Y3	85.7	-1.7	74.8
karl-bermann			
Klaus			
MACAM Secondary C			
Master Colour Database			

20180521B Druckbogen1 4: "T" 20180521B Bag PD: 173099 2000 8000 21 0 21.10.2019 13:18

Synchronize database and local archive

Color set / color	L	a	b
PANTONE_Goe			
PANTONE_Plus			
pt_import_cif			
B	10.8	0.3	1.6
C	54.8	-35.1	-48.3
M	48.4	73.7	-4.0
Y	87.9	-5.9	81.1
Y3	85.7	-1.7	74.8
karl-bermann			
Klaus			
MACAM Secondary C			
Master Colour Database			

20180521B Druckbogen1 4: "T" 20180521B Bag PD: 173099 2000 8000 21 0 21.10.2019 13:18



Administration since Prinect 2020

Rename

Properties include subfolders

Edit

Delete

Delete

New

By double click on object

- New...
- Import... Strg+J
- Export...
- Cut Strg+X
- Paste Strg+V
- Rename... Strg+R**
- Delete Strg+Entf
- Properties... Strg+I
- Refresh F5

Rename Folder

Bernd

OK Cancel

- New...
- Import... Strg+J
- Export...
- Cut Strg+X
- Paste Strg+V
- Rename... Strg+R
- Delete Strg+Entf
- Properties... Strg+I**
- Refresh F5

Folder Properties

Folder: Abdruck

Subfolder: 1

Colors: 15

Created by:

Created on: Jul 30, 2019 2:16:04 PM

Date Modified: Jul 30, 2019 2:16:04 PM

Options include subfolders

Edit

Delete

OK Cancel



4. CxF Import

Select Folder
Select "Import"

Import Colors from CxF File

Princt Neighborhood Computer: KIE-HEIPC03

Look in: CxF

Name	Size	Type	Modified	Attributes
PSO		Dateiordner	8/13/19 1:16 PM	
Wolf		Dateiordner	8/13/19 1:16 PM	
CGATS_Data[1].cxf	125 KB	CXF-Datei	10/29/09 1:33 PM	
ColorChecker.cxf	31 KB	CXF-Datei	11/5/09 2:16 PM	
MASTER LIBRARY - PHARM...	2 MB	CXF-Datei	4/13/15 6:03 PM	

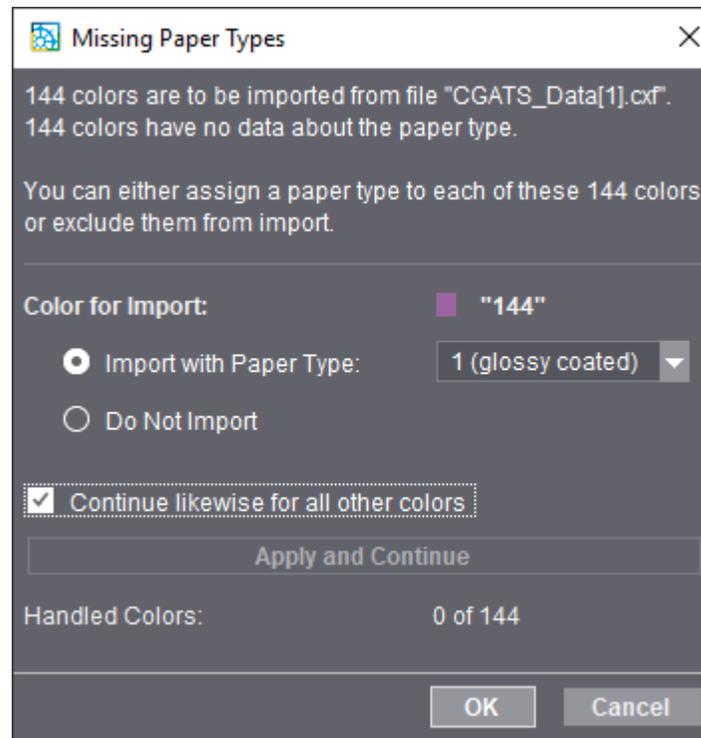
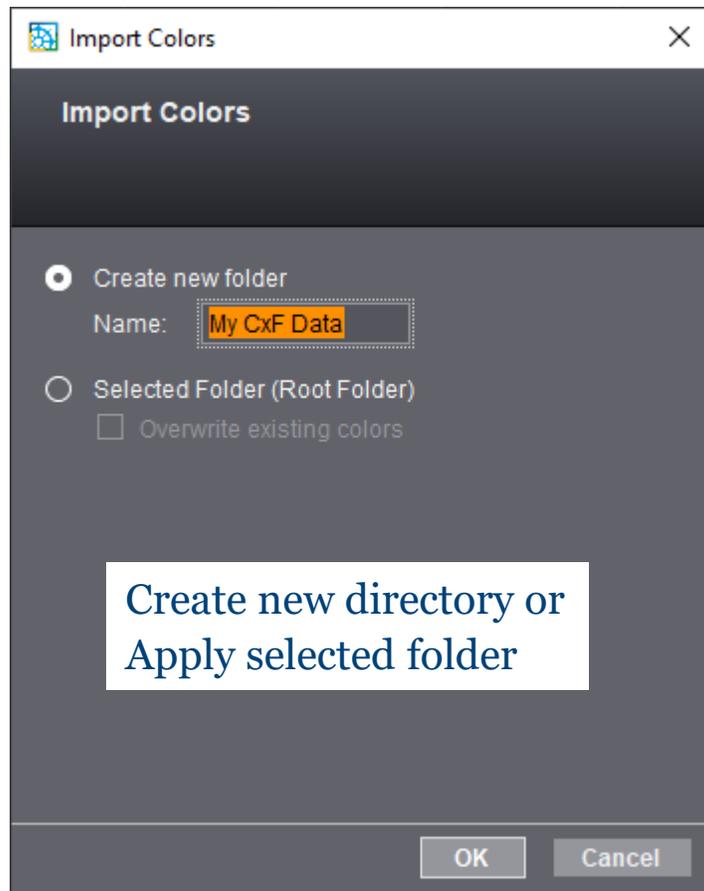
File name: CGATS_Data[1].cxf

Files of Type: CxF files (*.cxf) (.cxf)

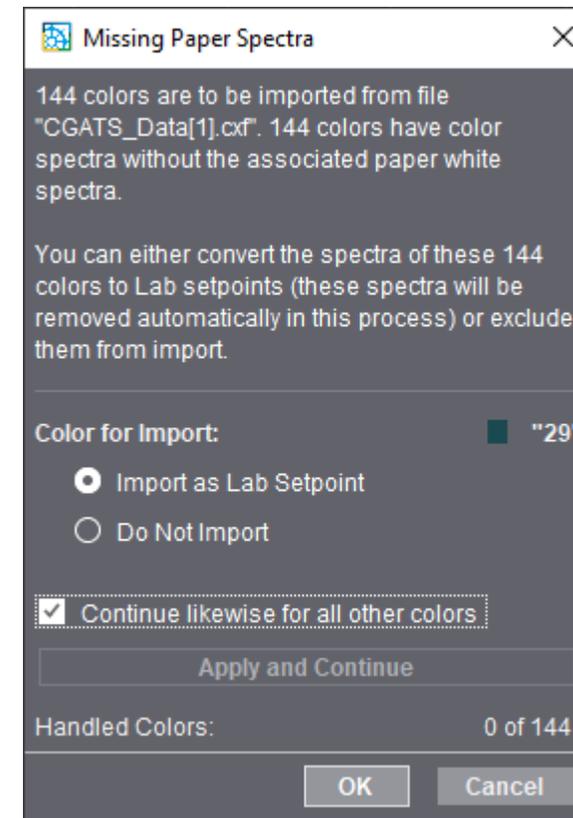
Import Cancel

Selection of the CxF to be imported

CxF Import



The mostly missing paper type must be added



If the spectrum of the paper is missing, only the $L^*a^*b^*$ value is taken over

CxF Import



The screenshot displays the CxF software interface for managing color tables. The main window is titled 'Colors and Varieties'. On the left, a 'Folder' pane shows a tree structure with 'My CxF Data' selected. The central 'Colors' pane shows a table of 144 colors. The right pane shows the 'Color Properties' for the selected color 112.

Color	L*	a*	b*	Paper Type
1	17.54	1.08	0.33	Glossy coated
2	80.00	-4.12	0.20	Glossy coated
3	100	19.47	72.48	Glossy coated
4	101	74.60	23.08	Glossy coated
5	102	75.54	22.34	Glossy coated
6	103	95.95	13.03	Glossy coated
7	104	88.35	12.14	Glossy coated
8	105	84.95	26.98	Glossy coated
9	106	86.58	25.21	Glossy coated
10	107	79.47	16.70	Glossy coated
11	108	82.70	10.42	Glossy coated
12	109	75.04	25.48	Glossy coated
13	11	80.04	-4.53	Glossy coated
14	110	77.64	-20.47	Glossy coated
15	111	82.91	-45.74	Glossy coated
16	112	82.57	-46.29	Glossy coated
17	113	83.54	-43.31	Glossy coated
18	114	82.66	-43.64	Glossy coated
19	115	83.03	-40.80	Glossy coated
20	116	83.07	-46.84	Glossy coated
21	117	83.36	-47.05	Glossy coated
22	118	83.13	-47.74	Glossy coated
23	119	83.68	-46.50	Glossy coated
24	12	80.31	-1.44	Glossy coated
25	120	87.38	-50.11	Glossy coated
26	121	80.48	-44.18	Glossy coated
27	122	86.26	-37.10	Glossy coated
28	123	89.53	-32.47	Glossy coated
29	124	86.35	-47.02	Glossy coated
30	125	87.34	-43.58	Glossy coated
31	126	88.98	-41.69	Glossy coated

Color Properties for Color 112:

- Type: L*a*b*
- Paper Type (ISO): 1 (glossy coated)
- Created on: Jun 14 2007 10:00:00 AM
- Created by: WEPC11856@Printed_Colour@WEPC11856
- Date Modified: Aug 21, 2019 11:58:59 AM
- Modified by: WEPC11856@Printed_Colour@WEPC11856
- Density Filter: Automatic
- Trapping: 1.0
- Opacity:

Measured Values:

Parameter	Viewing angle	L*	a*	b*
D50	02	82.57	-46.29	39.55

Import successful

The colors are assigned in the correct folder and the selected paper class.

On the right you can see that there are no color spectra, only L*a*b* values are visible.



5. Outlook to a new structure with a Unique Color ID Different Measuring Conditions under one name

