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## New Features in Prinect PDF Toolbox 2019

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About This Documentation

The present documentation describes the new features of the software Prinect Product 2019 as compared to Prinect Product 2018. We will show you the advantages of the new features in practical examples or error descriptions.

Structure of this Documentation

The present documentation describes the changes made to the following components:

• General Information
• Show Effects
• PDF Assistant: Geometry Control:
• Color Editor: Spot colors
• Trap Editor
• Barcode & VDP Editor
• Versioning Assistant
• Assemble Pages

What you should already know

We assume that you are familiar with the Windows® and Mac OS X® operating systems that are supported by this application.

We also assume that you have a basic knowledge of how to operate Acrobat and Prinect PDF Toolbox.
Before you start ...

Typographical conventions

The following typographical conventions are used in this documentation:

- References to sections are blue (on the screen) and underlined.

  Example: See section "Important Information", page 6.

- Quotes are used to indicate menus, folders, names of functions, hardware conditions, switch settings, system messages, etc.

  Example: Set the switch to "off".

- Menus, functions and sub-functions are separated by ">".

  Example: Select "File > Open...".

- A plus sign is used to indicate that several keys have to be pressed at the same time.

  Example: Press Alt+A.

Important Information

Important information in the text is marked by symbols that are used as follows:

**Note/Motivation:** Contains important general or advanced information about a specific topic or describes, for example, why a specific check was implemented.

**New:** Contains information that is new in comparison to older Prinect Software versions.

**New:** Identifies the new features in a screenshot.

**Note:** This new feature was also implemented in the Prinect Workflow.
System Requirements

Like PDF Toolbox 2018, Prinect PDF Toolbox 2019 supports Acrobat 2018, 10, 11 and Acrobat DC 2015 and 2017 on Macintosh and Windows PCs. Acrobat 9 is no longer supported.

General Information

New: Minor optical UI changes as compared to the previous version

The fonts used differ slightly because a higher version of the development tool for graphic UIs (wxWidgets) was used.
The Toolbox is identified with a separate icon from the tool box (->Tools)

New: One plug-in for all Acrobat versions on the Mac

A combined plug-in (32-bit and 64-bit) for all Acrobat versions is installed on the Mac.
New Features in Prinect PDF Toolbox 2019

Show Effects

**New tool** to visualize coating effects

Motivation: With the new "Show Effects" tool you can simulate coating effects. Foil, varnish, metallic colors, embossing or Braille, but also the printing material can be visualized in 3D in the PDF.

(For operation, see the video)

**Note:** To use "Show Effects", you need a license for the Coating Editor.
Restriction: You cannot run the tool in Remote Desktop.
Click the icon to open the tool or choose ->Add-Ins ->Prinect 2019 -> Show Effects.

After Show Effects starts, a 3D view of the current page of the PDF document displays in the preview.
New Features in Prinect PDF Toolbox 2019

User Interface:

If the PDF document has several pages, you can change between the pages with the buttons [1]. Use these buttons [2] to rotate, move and scale up the view.

In the table [3] on the left, you can see which effects are assigned to the colors in the document. To change this assignment, mark a color and set the effect you want [4].

You can also select the material [5] on which the PDF will be printed from a predefined catalog.

In the "Properties" tab [6] you can create new colors or foils for the following effects: Choose the following colors:

- "Special Ink > Neon Color"
- "Foil -> "Color foil"
- "Background > "Cold foil colored"
then click "New" and specify the desired color values for the new color:

If you wish to save the visualization, you can export the current preview as a 3D PDF. To do this, click the button [7] and select where the file will be stored. The file is a 3D PDF that you can open with Adobe Acrobat.

**Hint on how to open the 3D PDF:** As 3-D is dynamic in nature, working with it can lead to security issues. For this reason, the playback of 3D content in PDF files is disabled by default. (Source: Adobe)

When you open a PDF file containing 3D content, a yellow bar with the following message will appear above the document window:

"3D content has been disabled. Enable this feature if you trust this document."

Click "Options" and select the option you want:

- Trust this document one time only
- Trust this document always

To permanently enable 3D content:

Go to *Edit > Preferences > 3D & Multimedia* and check the **Enable playing of 3D content** option.
You can then rotate the exported PDF in Acrobat:

PDF Assistant: Geometry Control

**New:** New "Bleed" tab to add trim

In this tab, you can detect and add missing trim under visual control.
**Motivation:** The new trim results are immediately visible. In this context, the BleedBox can be included optionally, or you can add trim in the spine, regardless of the page trim.
New: Adding empty pages to a PDF/VT

Motivation: If you wish to add empty pages to a PDF/VT, this must also apply to all records. Up to now, this was not possible. You can now add an empty page to a PDF/VT with the context menu in Geometry Control like with "normal" PDF files:

The page is accordingly added in all data records.
New Features in Prinect PDF Toolbox 2019

Example:

In a PDF/VT with two pages per data record, you want to add an empty page after the second page. Add an empty page; as a result, all data records have 3 pages in total, with the empty page at the end:
Object Editor

**New:** Ungroup Text/Graphic

**Motivation:** Customers requested the ability to ungroup graphic. Example: You can ungroup text converted to graphic and move or colorize separate letters.
New Features in Prinect PDF Toolbox 2019

**Color Editor: Spot colors**

**New:** Create, edit, and delete color tables in the MasterDataStorage (MDS)

**Motivation:** You found color recipes for your spot colors with the PDF Toolbox and want to use these recipes everywhere in Prinect. Until now, you had to enter the color values in the Cockpit manually. As of Toolbox version 2019, you can save color table changes directly to the MDS. You can edit color tables, delete or enable tables, or change the search order. You can move a table to the top or bottom of the Search Order table with a single button:
This requires that you enabled the use of the Prinect Server beforehand:

![Color Tables](image)

**Note:** There is a small risk that two users edit the same table on two separate PCs simultaneously and thus interfere with each other. This risk remains with the user.
**New**: Improved test chart functions: You can choose to have full color names or color recipes displayed as an option

**Motivation**: Even in PDF Toolbox 2018, you could print test charts for your custom color tables. As an enhancement, you can now choose from different color naming conventions:
You can have the full color name with color recipe displayed, for example:
New Features in Prinect PDF Toolbox 2019

Trap Editor

**New:** Special case transparency groups: Contents of transparency groups are trapped

**Motivation:** Transparency groups or objects of such groups were excluded from trapping in versions before 2019 (and 2018.00.25). Trapping now takes place between elements in a transparency group, but also between transparency groups or page elements underneath. This modification was also included as an update to Version 2018 (18.00.25).

**Note:** As a consequence, reprinting in Version 2019 with retrapping can lead to results that differ from those obtained with Versions <18.00.25.

**What is a transparency group?**

Transparency groups are groups of objects (image, graphic, text, shading) whose interrelation is of importance in case of a transparency. The *Object Editor* indicates if an object is part of a transparency group.
Example:

Version <2018.00.25/2019:

Version >18.00.25
New Features in Prinect PDF Toolbox 2019

Barcode & VDP Editor

**New:** Automatic launching of the VDP Editor for PDF files with variable data

**Motivation:** The VDP Editor will start automatically if you open a PDF containing variable placeholders in Acrobat with “Autostart” being enabled.

**Note:** *PDF with variable placeholders* refers to a file containing the “Prinect VDP marks” layer:

![Image showing the layers in Acrobat with the Prinect VDP Marks layer highlighted.](image-url)
New Features in Prinect PDF Toolbox 2019

**New:** Time placeholder: with optional seconds display

For dynamic placeholders, you can now choose a format including the display of seconds. Until now, you could only choose between 12 or 24 hours:

As result, the mark displays seconds:

08:53:05am
New Features in Prinect PDF Toolbox 2019

**New:** Adjustable line spacing

**Motivation:** For a long time, customers had requested to make the line spacing of multi-line texts adjustable.

**Note:** The expected line spacing value is a multiple of the font size.
**New**: Placeholders are now permanently visible.

**Motivation**: In versions prior to 2019, the records preview was visible only in the “PDF/VT” tab; a precise positioning of the placeholder in terms of color or size was difficult. Version 2019 now offers the preview of any record in each of the tabs.
New Features in Prinect PDF Toolbox 2019

**New:** Validation of selected symbol sizes.

**Motivation:** A test if barcodes or texts fit the intended box is performed by default. As of Version 2019, the intended symbol size is tested for compliance with the QR and DataMatrix codes. If not, an error message appears.

**New:** Usage of variable data optional

**Motivation:** By enabling or disabling this optional listbox, the user can specify whether or not to display and use the CSV file containing variable data and respective placeholders in the VDP Editor. The entries in the respective check boxes for placeholder marks are limited. This prevents using placeholder marks of the CSV file inadvertently if production is to take place without marks of a CSV file.
New Features in Prinect PDF Toolbox 2019

**New:** Premiumadress offered by Deutsche Post is supported

**Motivation:** The Deutsche Post AG offers the digital "Premiumadress" address management service. Premiumadress manages addresses digitally to prevent undeliverabilities due to relocation, etc. Premiumadress is identified with a "P":

Deutsche Post AG supplies a CSV file that you can browse for containing placeholders that you can add to the content of a datamatrix code. Choose "Hexadecimal 00..FF" as "Control Characters" to be able to correctly read the data format of Deutsche Post AG. You can choose several encodings for generation of the CSV file containing the Premiumadress data by Post AG. To make things match, you must choose "Hex 00..FF" as Control Characters. "Hex 00..FF" being the default is the only feasible method.
New Features in Prinect PDF Toolbox 2019

These datamatrix codes require specific parameters for margins, module width, size and number of bytes the user must set. PDF Toolbox 2019 provides a correct DataMatrix Code that is recognized by the scanners of Deutsche Post AG.
**New**: Placeholder of variable data on an imposed sheet

**Motivation**: Compliance with a customer request. It is now possible to also place variable data records on an imposed sheet. For example, you can mark four 1ups on a sheet with a unique index and place marks anywhere on the 1ups of a sheet.

(see video)
You use the VDP Editor to place marks on one sheet, and the complete consecutive records will then be generated automatically:

**Note:** If the number of records is not dividable suitably, the replacement after the last record restarts with the content of the first replacer.

**New:** Copy & paste of text or barcode marks in the same document

**Motivation:** Customers requested the possibility of copying and pasting placeholder marks.
New Features in Prinect PDF Toolbox 2019

**New:** Extensive changes for the Labelfire workflow:

**Note:** If needed, these topics will be covered in detail in the course of a Labelfire training course.

Check box "target System -> Labelfire" renamed to "iVDP Labelfire", and "PDF/VT" tab renamed to "iVDP", if "iVDP Labelfire" has been chosen as the target system.

**What is iVDP?**

iVDP is the abbreviation of *Industrial Variable Data Printing*, a term introduced by Heidelberg.

In iVDP, variable objects are placed like in a PDF/VT. But in contrast to PDF/VT, only the variable objects are placed and replaced in the Labelfire RIP later. You can check if the existing marks are suited for iVDP and make corrections if applicable.
New Features in Prinect PDF Toolbox 2019

Data replacement occurs in:

- the Labelfire Rip or
- in the Qualify sequence of the Prinect Workflow

In an iVDP workflow, the variable data of the VDP Editor in the PDF Toolbox are saved to a PDF. The Renderer extracts these data and generates an additional "Vardata" file for each logical page during screening. The Vardata file contains the coordinates and properties of the variable elements, including the URL of the CSV data.

At the machine, the data records are added in the positions of the respective placeholders only during printing. The "PDF/VT" tab turns to "iVDP" if "iVDP Labelfire" is selected as target system. The placeholder frames for the Labelfire variables always have a fixed width and height. Output on the Labelfire via iVDP does not support dynamically sized placeholder frames. Conversion from PDF/VT back to iVDP-PDF is not possible.
Versioning Assistant

**New:** “Back to file selection”: Button in the toolbar.

**Motivation:** Facilitated operation. Until now, you had to click “Cancel” to return to the file selection:

![Versioning Assistant](image)

**New:** “Remove White Graphics” also removes white image pixels

**Motivation:** Error correction in supplied data

One of the most frequent trap errors in separately created data are that the version PDF contains image frames with 0% filling overprinting base elements if the text black of the version is mapped to black.

Removing these frames from separately supplied data with the “Clean up” function has been possible with PDF Toolox for some time.

As a new improvement to this function, the “Remove White Graphics” option now also hides *white pixels* in images. This prevents unwanted masking in the base that can occur, for example, when reducing transparency in the versioned data.
Example: Elements of the base knock out in this PDF of the final print result:

This is caused by a 0% black image frame in the version PDF "overprinting" the black of the base. In other words: the 0% black frame of the version covers the 40% frame of the base and therefore knocks out:
Solution: Enable "Remove White Graphics" and click "Clean up". This will remove the 0% image pixels that no longer impact on the basis now:
New Features in Prinect PDF Toolbox 2019

New: New function for separately supplied data: "Merge Base and Versions"

Motivation: Customer's request; optional correction of errors when merging supplied data:

If "Clean up" fails to provide the desired result, you can apply the new "Merge base and Versions" function.

When is "Clean up" insufficient, and when should I choose "Merge Base and Versions"?
As described above, knock out effects can occur if the black in the version is merged with the black of the base. As of Version 2019, a "Clean up" removes 0% image pixels in the version PDF.
A "Clean up" is insufficient if the border between 0% black and 100% black in the version is a smooth shading.
Example:
At first sight, the language layer seems to comprise only 0% K and 90% K:

Language layer PDF:  
Base PDF:
New Features in Prinect PDF Toolbox 2019

On closer scrutiny, there is no clear separation between 0% and 90% at the borders but a smooth shading:

A “Clean up” will not correct the borders. PDF Compare visualizes the differences between the results of “Merge” and “Clean up” + “Combine”:

1. Merge:

2. “Clean up” + "Combine": There are undesired effects in the borders:

When combining base and version, you obtain a PDF with a transparency to which a “Multiply” blend mode was applied. You must check this PDF with the Versioning Assistant or with Versioning Prepare during further processing.
New: Inclusion of base when files are supplied separately

Motivation: Improved correction options

When comparing data supplied separately, the impact on the base - i.e. if there is relevant base background where text knocks out - was not considered so far.
Example:
The customer has a versioned job with three PDFs:
- Language-independent base
- GB text
- DE text

The gray text (marked red in the screenshot) knocks out. The text will be on a white background after base and version have been combined. In this case, the white background has no impact on the knockout text.

A "comparison" compares the master version "GB text" with the second version "DE text" and checks for negative impact on the basis such as knockout texts that are reported as an error.
But this check does not cover the question of whether or not the elements really impact the base, whether there is really relevant background in these spots.

In PDF Toolbox 2019, you can now choose to include the base in the analysis for comparison calculation.
Version 2019 optionally includes the base - the white background - and no longer reports an error.

Note: A comparison including the base file is more time consuming because complex backgrounds and pertaining previews need to be created for every version.
New Features in Prinect PDF Toolbox 2019

Assemble Pages

**New:** New option: "Merge Pages"

**Motivation:** As described in the Versioning Assistant you can merge pages here as well. (p. 30 ff)
Wichtiger Hinweis:
Revision 1.0

Version 2019

Die im Training verwendete Software ist ausschließlich für Trainingszwecke bestimmt. Eine Weitergabe an Kunden ist strengstens untersagt. Der Download der Softwareversionen für Kunden muss auf dem offiziellen Weg erfolgen.

Impressum
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