RICOH

RICOH Transforms Suite

PS2PDF User's Guide

Version 1.4.3

Overview 1

Installing the PS2PDF Transform 2

Installing a Permanent License 3

Using the PS2PDF Transform 4

For information not in this manual, refer to the Help System in your product.

TABLE OF CONTENTS

Introduction

Important 2
Cautions regarding this guide 2
Symbols 2
Abbreviations 3
Trademarks 3

1 Overview

Benefits 5
Requirements 5
Limitations 5

2 Installing the PS2PDF Transform

3 Installing a Permanent License

4 Using the PS2PDF Transform

Command syntax 13
Parameters 13

Introduction

Important

To the maximum extent permitted by applicable laws, in no event will the manufacturer be liable for any damages whatsoever arising out of failures of this product, losses of documents or data, or the use or non-use of this product and operation manuals provided with it.

Make sure that you always copy or have backups of important documents or data. Documents or data might be erased due to your operational errors or malfunctions of the software. Also, you are responsible for taking protective measures against computer viruses, worms, and other harmful software.

In no event will the manufacturer be responsible for any documents created by you using this product or any results from the data executed by you.

Cautions regarding this guide

- Some illustrations or explanations in this guide could differ from your product due to improvement or change in the product.
- The contents of this document are subject to change without notice.
- No part of this document may be duplicated, replicated, reproduced in any form, modified, or quoted without prior consent of the supplier.

Symbols

The following symbols are used in this manual to help you to identify content quickly.

Important

- This symbol indicates points to pay attention to when using the product. Be sure to read these explanations.

Note

- This symbol indicates helpful supplementary information that is not essential to completing a task.

Bold	**Bold type** indicates the names of commands and parameters.
Bold underline	**Underlined bold type** indicates the default value.
Italic	*Italic type* indicates variables that you must replace with your own information.
Monospace	Monospace type indicates computer input and output and file names.
[]	Square brackets indicate that a value is optional.

|	A vertical bar indicates a choice between values.
...	An ellipsis indicates that a series can continue.

Abbreviations

EPS

Encapsulated Postscript

PDF

Portable Document Format

PS

PostScript

Trademarks

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The proper names of the Windows operating systems are as follows:

- Windows 10:
  Microsoft Windows 10 Pro

  Microsoft Windows 10 Enterprise
- Windows Server 2016:
  Microsoft Windows Server 2016 Standard

1. Overview

- **Benefits**
- **Requirements**
- **Limitations**

The PS2PDF transform converts PostScript and Encapsulated Postscript(EPS) files into Adobe Acrobat Portable Document Format (PDF) files.

Benefits

The PS2PDF transform gives you these benefits:

- The product is available on a wide selection of supported operating systems, like Windows, Linux and AIX.
- The client has the option to set encryption on resulted PDF that limits user's ability to print, modify or copy content using Adobe Acrobat or Adobe Reader.
- The client has the option to set linearization for the output PDF file.

Requirements

Transform client requirements:

- Microsoft Windows Server 2016 Standard or later
- Microsoft Windows 10 Pro, Enterprise or later
- IBM AIX 7.2 or later
- Linux kernel 2.6.32 or later (x86_64)

End-user client requirements:

- Adobe Acrobat
- Acrobat Reader

Limitations

The current limitations with the PS2PDF transform include:

- Encryption method revision number is V2 from PDF reference documentation.
- Permissions apply correctly when both owner and user passwords are specified.
- Linearization is incompatible with producing an encrypted (password protected) PDF file. Linearization is ignored when used together with encryption.

2. Installing the PS2PDF Transform

This procedure steps through an installation of the PS2PDF transform on AIX, Linux, and Windows using the installer.

The PS2PDF transform can be installed using an executable file on Windows operating systems and a bin file for AIX and Linux operating systems downloaded from https://dl.ricohsoftware.com.

Depending on the capabilities of your operating system, PS2PDF transform installer opens either using a graphical user interface or a command line.

The PS2PDF installer automatically installs a 60-day trial license. The trial license key is installed in the installation directory. The default installation directory is `/opt/RICOH/ps2pdf` for AIX and Linux and `C:\Program Files\RICOH\RICOH PS2PDF Transform` for Windows.

Use these procedures to install **PS2PDF**:

For AIX:

1. Log into the AIX system as root.
2. Copy the `RTS--setupPs2pdf-1.X.X--ps2pdf.AIX.bin` installation file, where *1.X.X* is the transform version, to a temporary directory of your choice. For example, you can use the `/tmp` directory.
3. Go to the folder where you downloaded the installation file. Open a command line and type:

```
cd /tmp
```

4. To list the files contained in the directory, type:

```
ls
```

5. To start the installation process, type:

```
./RTS--setupPs2pdf-1.X.X--ps2pdf.AIX.bin
```

   where *1.X.X* is the transform version.

   Important

   - Make sure that you have permission to execute the file.

6. Follow the instructions in the installer.
7. Review and accept the license agreement.
8. Select the installation folder. The default installation folder is: `/opt/RICOH/ps2pdf`
9. Click **Next** to review the settings.
10. Click **Install**.

For Linux:

1. Log into the Linux system as root.
2. Copy the `RTS--setupPs2pdf-1.X.X--ps2pdf.Linux.bin` installation file, where *1.X.X* is the transform version, to a temporary directory of your choice. For example, you can use the `/tmp` directory.
3. Go to the folder where you downloaded the installation file. Open a command line and type:

```
cd /tmp
```

4. To list the files contained in the directory, type:

```
ls
```

5. To start the installation process, type:

```
./RTS--setupPs2pdf-1.X.X--ps2pdf.Linux.bin
```

where *1.X.X* is the transform version.

Important

- Make sure that you have permission to execute the file.

6. Follow the instructions in the installer.
7. Review and accept the license agreement.
8. Select the installation folder. The default installation folder is: `/opt/RICOH/ps2pdf`
9. Click **Next** to review the settings.
10. Click **Install**.

For Windows:

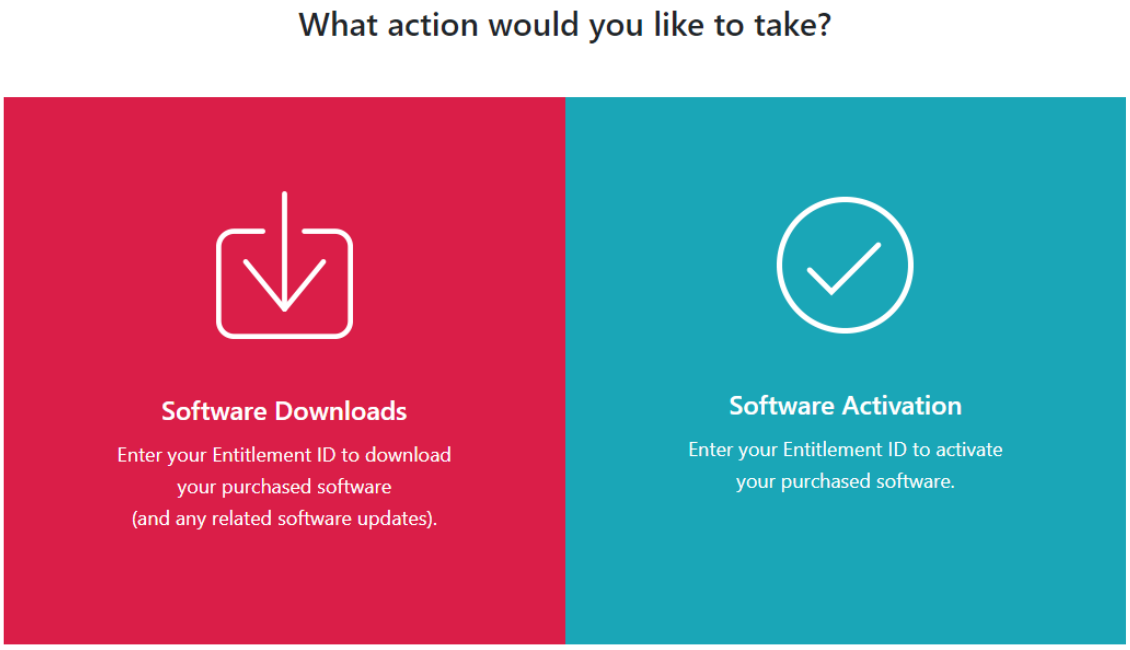
1. Log in to the Windows system as administrator.
2. Copy the `RTS--setupPs2pdf-1.X.X--ps2pdf.Windows.exe` installation file, where *1.X.X* is the transform version, to a directory of your choice.
3. Double-click the `RTS--setupPs2pdf-1.X.X--ps2pdf.Windows.exe` installation file to start the installation process.
4. Follow the instructions in the installer.
5. Review and accept the license agreement.
6. Select the installation folder. The default installation folder is: `C:\Program Files\RICOH\RICOH PS2PDF Transform`.
7. Click **Next** to review the settings.
8. Click **Install**.

3. Installing a Permanent License

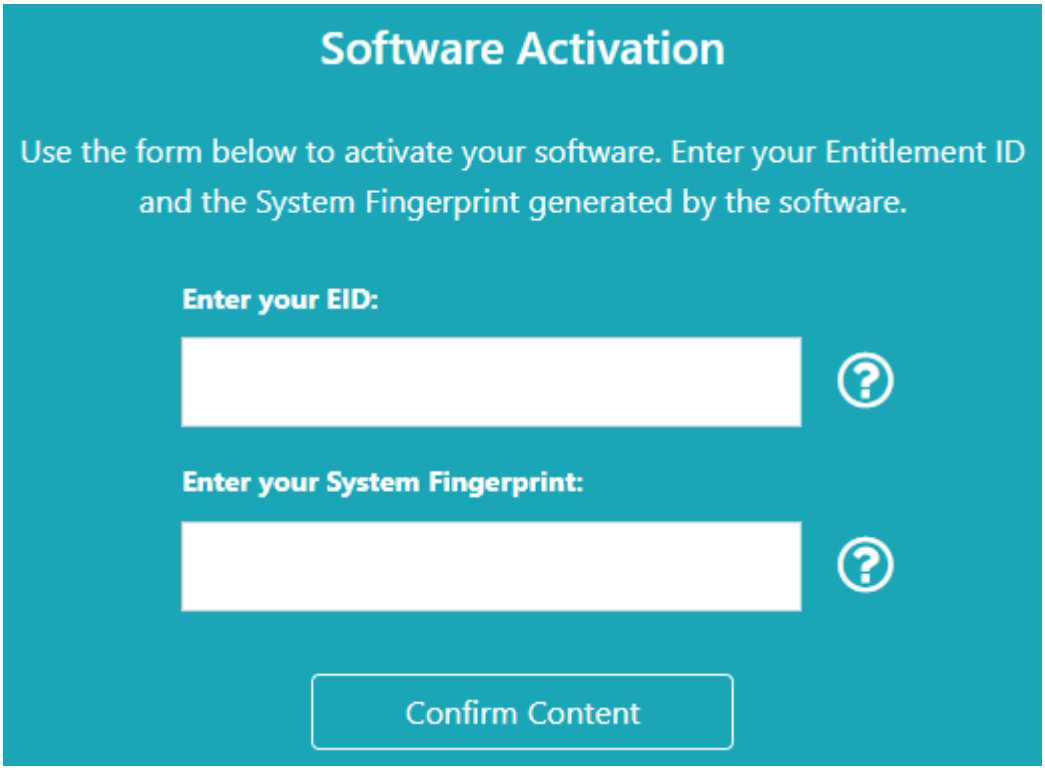
To use PS2PDF you need a licence. You must install a permanent license on the computer where the product is installed.

To install a permanent license for PS2PDF:

1. Make sure that you have the e-mail containing the entitlement ID (EID) that you received from Ricoh.
2. If the computer where PS2PDF is installed does not have Internet access:
   1. Log into a computer that has Internet access.
   2. Use the Remote Desktop Connection to connect to the computer where PS2PDF is installed.
3. On the computer that has Internet access, go to this Web site: https://dl.ricohsoftware.com.



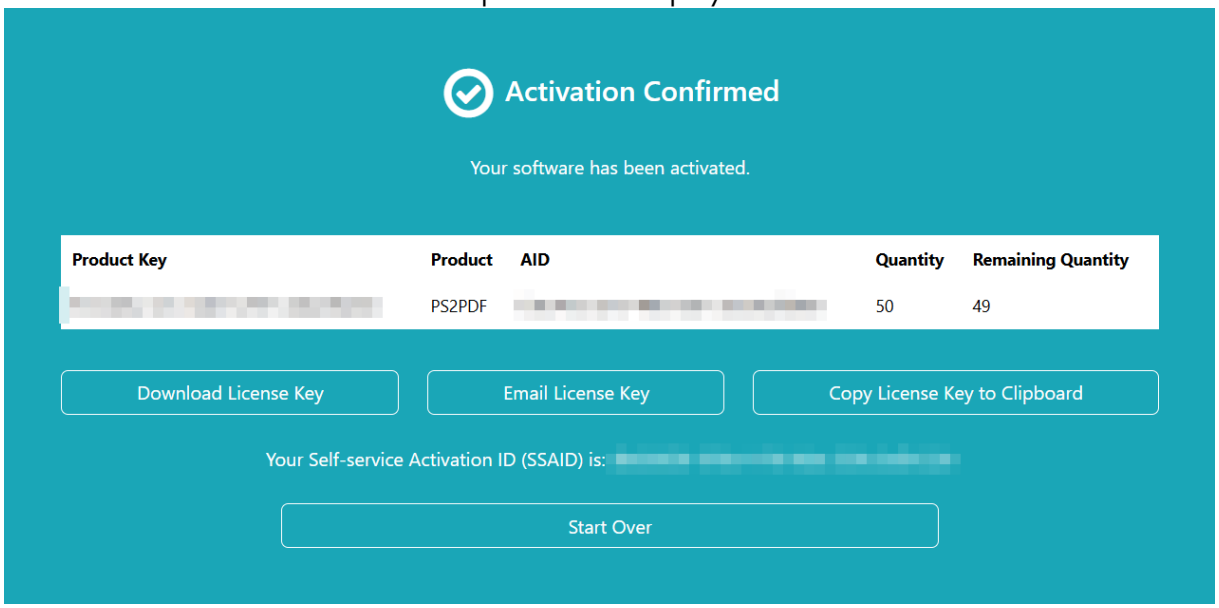
4. Click **Software Activation** on the right side of the screen.
5. In the **Software Activation** dialog, insert the EID and the system fingerprint.



1. Copy and paste the EID from the e-mail you received from Ricoh.
2. To obtain your machine fingerprint open a command prompt and run the command `ps2pdf -f`. Copy your machine fingerprint. This action copies the 16-character system fingerprint that uniquely identifies the computer where PS2PDF is installed to the clipboard.
3. Return to the Software Activation webpage. Paste the system fingerprint in the **Enter your System Fingerprint** field.
4. Click **Confirm Content**.

6. In the **Activation Content Confirmation** dialog:
   1. Review the confirmation information.
   2. Click **Activate**.

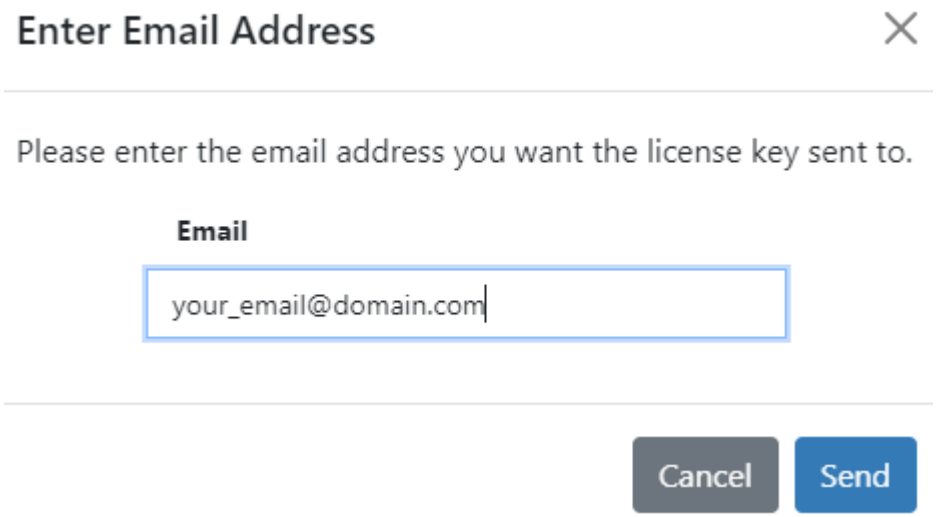
You will receive a confirmation that your software has been activated. A license key is generated with an Activation ID for the client computer and is displayed on the screen.



Note

The number of activations of the license is displayed under **Quantity**. The remaining number of activations available for this license is displayed under **Remaining Quantity**.

7. To download the license key, click **Download License Key**. The saving procedure and file type are different for each browser. Record the folder where you saved the license key.
8. To e-mail the license key file to someone else, click **Email License Key**.



   1. Type the e-mail address.
   2. Click **Send**.
9. If you are finished, close the browser tab. To restart the process, click **Start Over**.
10. Copy the license file in the same location where PS2PDF is installed.
11. You can start using the PS2PDF transform.

4. Using the PS2PDF Transform

- **Command syntax**
- **Parameters**

The PS2PDF transform consists of a command-line interface and multiple configurable parameters.

Command syntax

The syntax for the ps2pdf client command is::

```
ps2pdf.exe <-a perms> <-f> <-l> <-o pw> <-p size> <-u pw>input_fn <output_fn>
```

Parameters

The following parameters are required:

-a *perms*

Encryption permissions pcsa (p: no printing, c: no changes, s: no selection, a: no adding notations).

- This parameter is used only with the **-o** parameter; otherwise, **-a** permissions are not applied.

-d *<value>*

When processing images in the input stream, the Autofilter mechanism selects the compression used for them in the output PDF. In the majority of cases, it will choose a lossy compression (DCT) to favor a smaller output size. If the quality of the images in the output stream is not acceptable, this flag can disable the Autofilter for specific image types.

Set the *<value>* to 1 to disable Autofilter for grayscale images.

Set the *<value>* to 2 to disable Autofilter for color images.

Set the *<value>* to 3 to disable Autofilter for both grayscale and color images.

-f

Get system fingerprint for license activation.

-l

Linearize PDF.

Note

- This parameter is used without any encryption parameters.
- The Acrobat user interface refers to this as 'Optimised for Fast Web Viewing'.

-o *password*

Encryption PDF Owner Password.

-p *size*

Paper size.

Note

- Paper size is affected by this parameter when the paper size value is not specified in the PS input stream.

Paper type	Paper size
letter	8.5in x 11in (default)
ledger	17in x 11in
legal	8.5in x 14in
a4	8.26in x 11.69in
archA	9in x 12in
archB	12in x 18in
archC	18in x 24in
archD	24in x 36in
archE	36in x 48in
a0	33.11in x46.81in
a1	23.39in x 33.11in
a2	16.54in x 23.39in
a3	11.69in x 16.53in
a4	8.26in x 11.69in
a4small	8.26in x 11.69in
a5	5.83in x 8.26in
a6	4.13in x 5.83in
a7	2.92in x 4.13in
a8	2.06in x 2.92in
a9	1.46in x 2.06in
a10	1.01in x 1.46in
isob0	39.38in x 55.67in
isob1	27.83in x 39.38in
isob2	19.68in x 27.83in
isob3	13,90in x 19.68in
isob4	9.85in x 13,90in
isob5	6.93in x 9.85in
c0	36.10in x 51.07in
c1	25.51in x 36.10in
c2	18.03in x 25.51in
c3	12.75in x 18.03in

c4	9.01in x 12.75in
c5	6.38in x 9.01in
c6	4.49in x 6.38in
jisb0	40.56in x 57.32in
jisb1	28.67in x 40.56in
jisb2	20.28in x 28.67in
jisb3	14.33in x 20.28in
jisb4	10.13in x 14.33in
jisb5	7.17in x 10.13in
jisb6	5.04in x 7.17in

-u *password*

Encryption PDF User Password.

Note

- **-a** permissions are not relevant, unless you specify **-o**.

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