

INVOICES

Using Fujitsu PaperStream IP with ReadSoft Products

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Table of Contents

Introduction	4
What is PaperStream IP?	4
Which scanners can PaperStream IP be used with?	4
Which ReadSoft products can PaperStream IP be used with?	4
Where to find additional scanner information	4
New Fujitsu scanners that can be added in eiglobal.ini and ehglobal.ini	4
Installing your ReadSoft product	4
Installing Fujitsu PaperStream IP	4
Required INI file settings	5
Adjusting the scanner settings	5
Selecting and configuring your scanner	5
Fine tuning PaperStream IP functionality using INI file settings.....	7
<i>iDTC binarization settings</i>	7
<i>Color smoothing settings</i>	8

Introduction

What is PaperStream IP?

Now that PCs are becoming more powerful, advanced image processing can be performed as each document is scanned. Fujitsu offers optional software, PaperStream IP, that enables such advanced image processing with many of their scanners.

PaperStream IP is comparable to Kofax Virtual ReScan (VRS), but it uses the ISIS interface instead of the Kofax interface that VRS uses. PaperStream IP is a layer above the normal ISIS drivers that are loaded each time a program tries to load a scanner driver that PaperStream IP supports.

Old programs that use a driver can function normally, with no changes. Although PaperStream IP is still loaded for those programs, it is not used. Only the original drivers are used for those programs.

Which scanners can PaperStream IP be used with?

PaperStream IP can be used with many Fujitsu scanners. For details, please refer to [Fujitsu's PaperStream IP Sales Brochure](#).

Scanners that support PaperStream IP come with the software on the driver disk that is supplied with the scanner. You can also download it from [Fujitsu's website](#).

Which ReadSoft products can PaperStream IP be used with?

PaperStream IP can be used with:

- INVOICES 5-7 Patch 6 and later
- FORMS 5-3 SP4 HF7 and later

Where to find additional scanner information

To verify the correct scanner for your INVOICES version, contact your Lexmark representative.

New Fujitsu scanners that can be added in eiglobal.ini and ehglobal.ini

```
Scanner154=154, Fujitsu 7180, 14592, -1, 5, 0, 1, 100, 100, 40, 60, 8, 2, FI7280x, 1  
Scanner155=155, Fujitsu 7160, 14592, -1, 5, 0, 1, 100, 100, 40, 60, 8, 2, FI7260x, 1
```

Installing your ReadSoft product

Install INVOICES before installing PaperStream IP. If prompted to choose between Kofax and SCSI, *select SCSI*.

Installing Fujitsu PaperStream IP

After installing your ReadSoft software, install the scanner's ISIS driver. PaperStream IP is included automatically.

Required INI file settings

Ensure that these flags are specified in `eilocal.ini` (for INVOICES) or `ehlocal.ini` (for FORMS):

```
[SCSIOptions]
UseMiniDriver=1
ByteAlignment=1
```

Adjusting the scanner settings

Adjusting the scanner settings to use PaperStream functionality is twofold:

- PaperStream IP functionality is enabled in the INVOICES interface when the scanner is selected. See “Selecting and configuring your scanner” below.
- The scanner configuration is fine tuned using INI-file settings. See “Fine tuning PaperStream IP functionality using INI file settings.”

Selecting and configuring your scanner

This section describes how PaperStream IP functionality is enabled in the INVOICES interface:

1. Using Manager, open INVOICES’ **Scanner settings** dialog.
2. Click **Select scanner**.
3. If your scanner model is available in the dialog that appears, select it.
If not, you must edit `Eiglobal.ini` (for INVOICES) or `Ehglobal.ini` (for FORMS) to include it..
4. Click **OK** to close the **Select scanner** dialog.
5. In the **Scanner settings** dialog:
 - Adjust the paper size.
 - For INVOICES, set the DPI to 300 in most cases.
 - For FORMS, set the DPI to 200.
 - Select **Black and white** in the **Color** settings.

6. Click **Advanced**. In the **ISIS scanner settings** dialog, ensure that **Auto deskew** and **Auto crop** are selected.

Note: If these settings are grayed out, make sure the INI-file settings are specified as per “Required INI file settings” on page 5.

7. Click the **IPC button**.
8. In the dialog box, select **Thresholding**, and in the **Type** box, select **Standard DTC Auto-II**. This enables *iDTC* - the intelligent thresholding feature of PaperStream IP.
9. Click **OK**.

Note:

When **Double feed detection** is selected in the **ISIS scanner settings** and multi-feed occurs during scanning, PaperStream IP may display an error dialog. However, click **Cancel** in the dialog to allow the error to be handled by FORMS or INVOICES.

Fine tuning PaperStream IP functionality using INI file settings

Color smoothing and iDTC binarization can be fine tuned by specifying these settings in the [SCSIOptions] section in `eilocal.ini`:

iDTC binarization settings

INI-file flag	Valid values	Description
IdtcVariance	Integers between -50 and 50	This flag controls binarization sensitivity. The default value is 0 and is what is recommended.
IdtcFadeCompensation	Integers between 0 and 5	This flag sets the character augmentation level. The default value is 0 and is what is recommended.
IdtcCharWidth	Integers between -5 and 5	This flag sets the character thickness level. The default value is 0 and is what is recommended.
IdtcNoiseRemovalSensitivity	Integers between 0 and 20	This flag specifies the level of noise removal. The default value is 0 and is what is recommended.
IdtcPatternRemoval	0 = disabled 1 = enabled (default) 2 = more aggressive	This flag controls how the removal of background pattern behaves. The recommended value is 1.
IdtcBGThreshold	Integers between -50 and 50	This flag controls the background threshold level. The default value is 0 and is what is recommended.

Color smoothing settings

INI-file flag	Valid values	Description
BGAdjust	0 = disable (default) 1 = enable	This flag toggles the automatic adjustment of background colors. When enabled, background colors are evened out when scanning color or grayscale invoice images. Image files are also compressed to a higher degree so that they require less space, and OCR processing is faster due to the reduced noise in the background. The recommended value is 1.
BGAdjustAggressiveness	Integers between -5 and 5	This flag specifies how aggressively the background noise is adjusted if BGAdjust is enabled. The default value is 0 is what is recommended.
BGAdjustColorWhite	0 = auto (default) 1 = the background is changed to white	This flag specifies if the background adjusted to white if BGAdjust is enabled. The recommended value is 0.