FreeFlow® Variable Information Suite
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FreeFlow® VI Suite
What's New in Version 12.1

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Changes are periodically made to this document. Changes, technical inaccuracies, and typographical errors will be corrected in subsequent editions.

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Introduction

The FreeFlow VI Suite 12.1 release is an update to the FreeFlow VI Suite 12.0 release. (The term VI Suite refers to one or more of the available FreeFlow VI Suite products).

NOTES

Updates are released as Full Installers.

You are able to install any FreeFlow VI Suite 12.1 update over any prior release of the FreeFlow VI Suite. Installation of VI Suite components require Administrator privileges.

Active products must be stopped prior to update installation.

Any active product, such as FreeFlow VI eCompose or VI eCompose services must be stopped prior to any update installation.

Important License Information

If upgrading from a prior major release, for example 10.x, 11.x or 12.0, you will need to obtain a 12.1 license file to enable the product. For customers this can be done by using the original SWAP key supplied with the original order. The SWAP key is entered when using the License Menu. For internal updates refer to the information supplied in the ISA or MAPS.

A license update is required when updating from VI Suite 12.0 (and earlier) products to VI Suite 12.1 products.

Platform Support

All VI Suite products run on 32 or 64 bit OS, Windows Vista, Windows 7, Windows 8, Windows 8.1, and Windows Server 2008 and 2012 platforms. For FreeFlow VI Design Express (Mac and Windows support), refer to the Adobe InDesign or Adobe Creative Suite documentation for operating system support.

As of version 12.1, Windows XP is no longer supported for any FreeFlow VI Suite product.

VM Environments Support

All products with the exception of the VI Compose product, will operate under a VM environment. No support is offered for the configuration or management of the VM system. Where applicable, each VM system must have a unique NIC/Mac address for license activation.

Adobe Acrobat and Acrobat Reader

See the Adobe Acrobat section under FreeFlow VI eCompose for important information regarding versions of Adobe Acrobat and reader.

This section also provides information and required settings for Adobe Acrobat and Reader that are required to view PDF files generated with PDF XObjects.

Purpose and use of this supplement

Anyone upgrading from a prior release of the FreeFlow VI Suite software should make use of this supplement to become familiar with the new content included in the FreeFlow VI Suite 12.1 release.

VI Suite documentation is updated once a year for the major release. This “What's New” document provides information on new features, enhancements or bug fixes added to the major release and will also include new features, enhancements or bug fixes added via Service Packs going back to the prior major release.

Documentation for the FreeFlow VI Suite 12.1 release can be found on the www.xerox.com website. Select the “Support and Drivers” section. Search for “VIPP” and select “Documentation” under the FreeFlow Variable Information Suite tag. Documentation for FreeFlow VI Design Express can also be found in the Installer download zip/dmg file.

For the very latest information, it is recommended that you read the Readme.txt file that is installed with each product.

Upgrade Recommendation

It is recommended that whenever you upgrade one component of the FreeFlow VI Suite, you also upgrade all other VI Suite components. This will help to avoid VI Suite product mismatches that could result in VIPP jobs failing with errors such as "Command Not Found".

When using FreeFlow VI Design Express it is critical that you upgrade any VI component that will render the VIPP application. This includes VI Compose on the printer, and VI eCompose. When updating to the FreeFlow VI Design Express 12.1 release, you need to update the version of VI Compose on the printer to VI Compose 12.1, and if using FreeFlow VI eCompose, update to VI eCompose 12.1.

The latest versions of the FreeFlow VI Suite components can always be found on the www.xerox.com website. Select the “Support and Drivers” section. Search for “VIPP”, and then go to the Software tag.

NOTE

The version of FreeFlow VI Compose and the version of FFPS are not dependent upon each other. FFPS will always come pre-installed with a demonstration version of FreeFlow VI Compose (not licensed). It is recommended that you upgrade the version of FreeFlow VI Compose that came on the FFPS with the latest available FreeFlow VI Compose release.

VIPP Barcode Fonts

A set of legacy VIPP Barcode printer fonts have been placed on the FreeFlow Variable Information page under the Support and Drivers page. A short cut is provided below. Other barcodes such as UPCA, UPCE, EAN8, EAN13, USPS4CB (IMB), QRcode, DataMatrix, PDF417, Aztec, Maxicode, and GS1 Databar are drawn at runtime by VIPP commands and require no printer font. Review the VIPP Language Reference Manual for details on these barcodes.

Go to the www.xerox.com website. Select the “Support and Drivers” page. Search for “VIPP” and select “Software” under the FreeFlow Variable Information Suite tag. Scroll down to the Fonts section to view the available font packages.

The barcode zip file can be downloaded and the fonts installed on your printer. You also need to install the printer fonts in the design tools and VI eCompose products as required. If additional printer fonts (not included in the zip file) are required, contact the Xerox Font Center.

NOTE

Check out the new DRAWBC command for EAN8, EAN13, UPCA, UPCE and GS1 Databar that can print these fonts by drawing the barcode at runtime. No Printer fonts are required. This is also supported in both the FreeFlow VI Design Pro and FreeFlow VI Design Express design tools.

Clear Dry Ink

Clear Dry Ink (CDI) is an option on Xerox DC1000/800 devices, supported by FFPS, EFI and Creo DFE's.

When designing applications using CDI with prior versions of the VI Design Express (and VIPP Pro Publisher) caching was turned off. This was done because caching with CDI is not currently supported by FFPS. The VI Design Express has been modified to test the DFE it is running on, and only turn caching off if running on an FFPS. This allows caching to be used on EFI and Creo DFE's.

SAP and VI Suite

The Xerox FreeFlow VI SAP Device Type and Form provides functionality and feature integration with the FreeFlow VI Compose and VI eCompose products. Although SAP provides support for many output devices, currently this support does not include the VI enabled printers and VI enabled eCompose Servers (VIPP to PDF).

The FreeFlow VI SAP Solution allows SAP users to access the more advanced feature set of the VIPP scripting language, providing a fast, efficient, effective and flexible method for printing (or creating Adobe PDF files) from a delimited, XML or line data (print ready data) data file.

The sample device type and form are provided in a zip file (VISAPDT.ZIP) that can be downloaded from the www.xerox.com site. Go to the Support and Drivers section and search for VIPP, select the Software option. The zip file will be found under the Utilities and Applications section. The contents of the zip file should be reviewed by the SAP systems administrator.

SAP will use the legacy VIPP path using the "Just Send the Data" model. VIPP resources (fonts, images, forms, etc.) must be uploaded to the printer XGFC folders. This can be done during the development of the VIPP application. Once the resources are available to the print device or the FreeFlow VI eCompose server, the SAP print job can be processed using the SAP Device Type that has been configured with the VIPP start commands, in effect just sending the data to the target device.

The only requirement is that the target print device must have FreeFlow VI compose installed and licensed. If the SAP administrator needs to output PDF, they can send the VIPP job to the FreeFlow VI eCompose server.

Customer Value

SAP customers use SAP Device types to print to devices. Xerox only supplies Xerox Office Device Types. By using the SAP package, SAP system administrators can now look to the benefits of using VIPP and printing to any VIPP enabled print device or using the FreeFlow VI eCompose for PDF generation.

By using the VIPP Device type, the customer can take processing cycles off the SAP system allowing the document to dynamically be composed at runtime on the Xerox VIPP enabled print device. VIPP provides a superior document design and composition model than is available via SAP, in addition using the FreeFlow VI eCompose the SAP administrator can now generate both hard copy output and PDF for electronic distribution - in one easy step. Ease of use, easy to use document design tools, speed and flexibility are what the VI Suite and the VIPP AP driver provides.

FreeFlow VI Compose 12.1

This section lists all new and enhanced VIPP commands and features introduced since the release of VI Compose 12.0. All the features and enhancements listed below are supported in the FreeFlow VI Compose 12.1 release.

FFPS Update Manager can be used to update FFPS controllers with the latest version of the VI Compose software. There is no dependency on the version of VI Compose and the version of the FFPS software. Each can be updated independently of each other.

For EFI, Creo or other DFE's, an iso file can be downloaded from the www.xerox.com website. If needed, you can burn a CD from the iso file and install on any VIPP supported device including FFPS. Refer to each product User's Guide for Installation instructions.

For more information on the features and enhancements in this document, refer to the Readme.txt file supplied as part of the installed software, the *VIPP Language Reference Manual*, and the individual product User's Guides.

New Commands since the 12.0 release

NEWSTACK

This command is only available when using the generic mode of ZSORT. (See ZSORT later in this document).

This command ends the current ZSORT stack (with all records processed so far) and begins a new stack. It is intended to be used inside a conditional statement to start a new stack when the condition is true.

NEWSTACK must be placed before page initialization (before any MOVETO or mark on the page).

Syntax:

NEWSTACK

Example

```
IF  Fieldx    NEXT_FieldX   ne { NEWSTACK } ENDIF
```

Customer Value

A new ZSORT stack based on a condition can be started. For example, a new stack can start when a zip code or other sort criteria changes.

NOTE

NEWSTACK can only be used with Generic ZSORT options. See ZSORT later in this document.

PDFBOUND

PDFBOUND enables the creation of optional page boundary boxes in a PDF output created by a VIPP job. This command does not alter the PDF contents other than by adding the additional bounding boxes in the page. Applications rendering or processing the PDF downstream in the workflow may decide to process or ignore them. When the output of the VIPP job is not a PDF file the command is ignored and has no effect.

PDFBOUND must be placed before page initialization (before any MOVETO or mark on the page).

Syntax:

```
/xxxBox [top bottom left right] PDFBOUND
```

Where:

/xxxBox is one of:

/CropBox
/BleedBox
/TrimBox
/ArtBox.

top, bot, left and right are offsets to the center of the page (in current units) from MediaBox as defined by SETPAGESIZE.

Example:

```
/CropBox [50 50 50 50] PDFBOUND
```

Enhanced Commands in VI Compose

CACHE

For PDF resources, where Cropbox has been defined in the PDF, CACHE is used instead of Trimbox to determine the image bounding box. Trimbox is no longer used.

Customer Value

A casual user would not be aware of Cropbox or Trimbox. This enhancement enables better placement and control of PDF files in a VIPP job.

DRAWBC (updates for UPCA, UPCE, EAN8 and EAN13)

UPCA, UPCE, EAN8 and EAN13 barcodes can be drawn on the fly without the need for barcode fonts using the new/UPCA, /UPCE, /EAN8 and /EAN13 options for /BCkey in the DRAWBC command.

Syntax:

```
(data)   /BCkey   option   DRAWBC
(data)   /BCkey   [ scaleH   scaleV ]   option   DRAWBC
```

Where:

(data) is a numeric string containing the data to be encoded in the barcode

/BCkey is one of the following:

/EAN8

/EAN13

/UPCA

/UPCE

/DATABAR (See "DRAWBC (extension to support GS1 Databar)" for more information.)

scaleH is an optional horizontal scaling factor (default is 1)

scaleV is an optional vertical scaling factor (default is 1)

option is one of the following:

0 do not print the human readable digits

1 print the human readable digits

Customer Value

It is easier to use barcodes drawn by VIPP than use barcodes that require printer fonts to be installed. Note the barcode fonts listed above are still supported using the legacy barcode fonts and VIPP commands as many old VIPP jobs have been coded to use them, but for new applications it is recommended to use the DRAWBC command for these fonts. For a list of barcodes that VIPP can draw without requiring printer fonts, refer to the barcode section earlier in this document.

DRAWBC (extension to support GS1 Databar)

The DRAWBC command has been extended to include support for GS1 Databar barcodes.

Description

The GS1 DataBar barcode is based on a family of symbols often used in the GS1 DataBar Coupon (coupon codes commonly used in retail). GS1 DataBar was formerly known as “Reduced Space Symbology (RSS)” and has been renamed to align with the name of the GS1 organization.

These barcodes can encode up to 14 digits, which makes them suitable for GTIN 8, 12, 13 and 14.

GS1 DataBar Expanded and GS1 DataBar Expanded Stacked can encode up to 74 numeric or 41 alphanumeric characters, and provide the capability to utilize all GS1 Application Identifiers (for example, expiration date, batch and serial number). These bar codes are often used in manufacturer coupons.

The VI Suite supports seven GS1 DataBar barcodes. Please review the GS1 DataBar specification, available on the internet, for more information about GS1 DataBar barcodes.

- The data in the barcodes listed here (option Y = 0 – 3) may include 13 or 14 digits. When 14 digits are entered, the 14th digit is considered a placeholder and will be replaced automatically with a calculated check digit.
  - GS1 DataBar Omnidirectional
  - GS1 DataBar Truncated
  - GS1 DataBar Stacked
  - GS1 DataBar Stacked Omnidirectional

- The data in the barcode listed here (option Y = 4) may include 13 or 14 digits. When 14 digits are entered, the 14th digit is considered a placeholder and will be replaced automatically with a calculated check digit. The indicator digit (first digit) must be a 0 or 1.
  - GS1 DataBar Limited
- The barcodes listed here (option Y = 5 or 6) are capable of encoding a 14 digit GTIN (must be 14 digits in length), and additional data (up to 74 numeric or 41 alphabetic characters). Refer to the GS1 Databar ISO specification for more information.
  - GS1 DataBar Expanded
  - GS1 DataBar Expanded Stacked

GS1 Databar command syntax in DRAWBC

The DRAWBC command has the following generic syntax:

```
(data) /BCkey option DRAWBC
```

or

```
(data) /BCkey [scaleH scaleV] option DRAWBC
```

Where:

/BCkey is /DATABAR

Option is a 4 digit number (ZZXY) where:

ZZ	Segments per row.	Supported values are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 (Used only for GS1 DataBar Expanded Stacked barcode)
X:	0	do not print the human readable digits
	1	Print the human readable digits
Y:	0	GS1 DataBar Omnidirectional
	1	GS1 DataBar Truncated
	2	GS1 DataBar Stacked
	3	GS1 DataBar Stacked Omnidirectional
	4	GS1 DataBar Limited
	5	GS1 DataBar Expanded
	6	GS1 DataBar Expanded Stacked

Example:

```
((01) 04412345678909) /DATABAR 10 DRAWBC % GS1 Databar Omnidirectional with human readable
digits.
```

Where ‘option’ is currently defined as:

1	print the human readable digits
0	omnidirectional

Valid Inputs

For all barcodes except GS1 Databar Expanded and GS1 Databar Expanded Stacked

GS1 Databar accepts 13 or 14 digits (option 5 & 6 only 14 digits plus optional data). When 14 digits are entered, the 14th digit is replaced with a calculated check digit. For example:

```
(0123456789101112)
```

is truncated to:

```
(0123456789101).
```

If the input is less than 13 digits leading 0’s must be added. For example, valid input for:

```
(123456789)
```

is:

```
(0000123456789).
```

The barcode generator accepts inputs with or without an Application Identifier (AI). AI is not a mandatory input, however, the output always has leading AI in the HRI display.

Input with AI

The example below includes an Application Identifier of “()”.

```
((01)00412345678909) /DATABAR 11 DRAWBC
```

NOTE

In the above example the 14th character of the input string (9) will be discarded and replaced with a check digit calculated by the DRAWBC command.

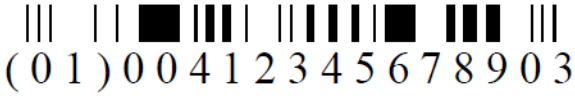
Input without AI

The example below does not include an Application Identifier, nor does it include Human Readable Interpretation (HRI).

```
(0041234567890) /DATABAR 01 DRAWBC
```

The example below does not include an Application Identifier, however, it does include Human Readable Interpretation (HRI).

```
(0041234567890) /DATABAR 11 DRAWBC
```



GS1 Databar Expanded and GS1 Databar Expanded Stacked

GS1 DataBar Expanded is a variable length linear symbology capable of encoding up to 74 numeric or 41 alphabetic characters of AI element string data internally represented as a binary number. A 14 digit Application Identifier is mandatory in GS1 Databar Expanded and Expanded Stacked barcodes.

Valid input examples:

```
(01)90012345678908(3103)012233(15)991231
```

```
(01)00012345678905(10)ABC123
```

Input without AI is invalid:

```
00012345678905(10)ABC123
```

Usage of GS1 Databar in DRAWBC

Option values:

00	GS1 DataBar Omnidirectional
10	GS1 DataBar Omnidirectional with HRI
01	GS1 DataBar Truncated
11	GS1 DataBar Truncated with HRI
02	GS1 DataBar Stacked
12	GS1 DataBar Stacked with HRI
03	GS1 DataBar Stacked Omnidirectional
13	GS1 DataBar Stacked Omnidirectional with HRI
04	GS1 DataBar Limited
14	GS1 DataBar Limited with HRI
05	GS1 DataBar Expanded
15	GS1 DataBar Expanded with HRI
06	GS1 DataBar Expanded Stacked
16	GS1 DataBar Expanded Stacked with HRI

```
((01)24012345678905) /DATABAR 10 DRAWBC    % Generate GS1 DataBar Omnidirectional with HRI
```

```
(24012345678905) /DATABAR 10 DRAWBC    % Generate same GS1 DataBar Omnidirectional with HRI as
above
```

```
((01)15012345678907) /DATABAR [.5 1] 04 DRAWBC    %Generate GS1 DataBar Limited without HRI
with scale x:0.5 , y:1
```

```
((01)00012345678905) /DATABAR [1.5 1.5] 02 DRAWBC    %Generate GS1 DataBar Stacked without HRI
with scale x:1.5, y:1.5
```

RUNPDF

Support has been added for mixed page sizes and orientations.

Customer Value

VIPP can now support multi page PDF files with mixed page sizes and/or orientations.

SETLAYOUT

Support for /Rotate array. The rotate values in the array will be used in sequence on the pages. Only 0, 90, 180 and 270 (or -90) are supported.

Example

```
[…
  /Rotate [ 0 180 0 180 ]
  ..
  ] SETLAYOUT
```

Customer Value

Allows a VIPP application developer more control over page orientation.

XGFEND

Command description updated to include Generic ZSORT:

XGFEND is mandatory at the end of a native mode job when normalization or demographic service is active or Generic ZSORT is used. If not, this command has no action.

ZSORT

Generic ZSORT capability was added in the 12.0 release. As it is an important update, the information is included in this version of the What's New guide. For related information, refer to the NEWSTACK command information included earlier in this document.

A new "generic" ZSORT capability for XML and Line Data has been added to the VIPP core processing capabilities.

When applying ZSORT to delimited database mode applications, VIPP will invoke the powerful, full featured legacy ZSORT processing capabilities. However, the legacy ZSORT could not process XML or line data. If VIPP detects you are processing XML or line data, it will switch to the generic ZSORT processing mode allowing the processing of ZSORT commands on XML and line data applications.

Customer Value

For customers who have taken advantage of the power of VIPP ZSORT processing (imposition, front/back registration, north/south imposition), and wish they could apply the same power to XML or line data applications, now they can. This will allow application developers to generate more advanced variable data applications using XML and line data.

ZSORT Built-in Parameters

Three new built-in variables are available when using ZSORT:

ZSRECNUM record number (in data file order)

ZSREPCNT ongoing repeat count

ZSREPIDX record repeat index

These variables can be used to track the data record, any repeat value and repeat index.

Customer Value

A VIPP programmer using these built-in variables can create more complex and interesting documents.

Bug Fixes made in VI Compose after the12.0 release

REPEAT

Fixed bug with RPCOUNT/RPLEFT variables when REPEAT is used in conjunction with "generic" ZSPRT.

CACHE

Fixed bug when the width or height of the bounding box is zero.

Fixed error when stack is not clean after execution.

GETINTV

Fixed an issue with GETINTV command when PAGEBRK occurs between two consecutive GETINTV calls.

ICALL/SCALL

The ICALL and SCALL command will now ignore the invalid "FFFF" JPEG tag when present. (Spar 100510775)

PAGERANGE

Fixed bug related to the last pages of a native mode job when the output is a PDF/vt file.

SETCYCLECOPY / COLLATE_on

Fixed incorrect behavior when used in conjunction with ZSORT.

SLIPSHEET

Bug in SLIPSHEET caused some pages to be skipped. (SPAR 704573459/CQGbl00545851).

STARTDBM

Ignore UTF8 BOM (if any) at the beginning of the field names line.

QRCODE

Fixed an issue with missing version information for barcodes greater than 6.

FreeFlow VI Design Express 12.1

This section lists all new and enhanced VI Design Express (VDE) features introduced since the release of the FF VI Design Express 12.1. If updating from an earlier release a new 12.1 license is required. You can use your original Swap Key to obtain a 12.1 license for VI Design Express.

For more information on each feature, refer to the README.txt file installed with the software. The FreeFlow VI Design Express software is a VI design tool. It runs as a plug-in to Adobe InDesign CS5.5, CS6 and CC on Windows and Intel Mac OS X. Refer to the Adobe InDesign or Adobe Creative Suite for OS support.

NOTE

Adobe InDesign CS4 and InDesign CS5 are no longer supported in this release.

Due to the current documented support policy, adding support for Adobe Creative Cloud 2014 means Adobe InDesign CS5 will no longer be supported with FreeFlow VI Design Express 12.1. Supported versions of Adobe InDesign include Adobe InDesign CS5.5, CS6, Creative Cloud 9 and Creative Cloud 2014.

Adobe Creative Cloud (CC9 and CC2014) is supported in this release.

Adobe Extension Manager is required.

Platform Support

Windows 8.1 and Windows Server 2012 R2 support have been added. Windows XP is no longer supported.

When using Adobe InDesign CS5.5 and Mac OS X Mountain Lion, the Adobe Update Manager cannot be used to turn on or off the FF VI Design Express plug-in. Xerox is working with Adobe and Apple to address this issue in a future release.

It is a pre-requisite to upgrade the VI Compose software on the printer to VI Compose 12.1 when using VI Design Express 12.1.

NOTE

If using VI eCompose you should upgrade VI eCompose to VI eCompose 12.1.

New Features

Update to use VI Compose 12.1 command set

VDE has been updated to use the new features and enhancements made to the VIPP language.

Collate Mode

The "Enable Repeat" option now has a new "Collate Mode" menu with three possible options.

Record: This is the default option and was the prior behavior in earlier versions of VDE. It enables Repeat at the record level (the output of each record is repeated).

Page: Each individual page is repeated. This option is not available in Multi-up mode or when a data field is selected as the "Repeat Count".

NOTE

Page option is not available when Duplex is selected.

Job: The entire job is repeated. The output for all records will be repeated. This option is not available when a data field is selected as the "Repeat Count".

Customer Value

This allows the customer more flexibility in the types of applications they can create using VDE.

Option to assign a color to a barcode

The following barcodes, Aztec, Datamatrix, Maxicode, PDF417, QR Code, USPS 4-State Customer Barcode (IMB), EAN8, EAM13, UPCA and UPCE, now have an additional color option. The user can select a color from the swatch menu that will be used to paint the barcode. (Specialty Imaging or nonstandard colors are unsupported.)

GS1 Databar Support

VI Design Express supports the following GS1 Databar barcodes. The selection for these barcodes is made from the VDE Barcode Options panel. Refer to the section DRAWBC (extension to support GS1 Databar) and to the GS1 Databar ISO specification for details on data inputs and restrictions regarding support for GS1 Databar barcodes.

- GS1 Databar Omnidirectional
- GS1 Databar Truncated
- GS1 Databar Stacked
- GS1 Databar Stacked Omnidirectional
- GS1 Databar Limited
- GS1 Databar Expanded
- GS1 Databar Expanded Stacked

All barcodes can be printed with or without human readable information.

NOTE

When creating any barcode in VI Design Express always verify that the barcode frame settings are set as below:

Content Fitting is set to None
Crop Amount values are set to 0 (zero).

Modify PDF with Embedded EPS

VDE can generate VIPP applications that use variable references to PDF images. While VIPP supports the use of variable PDF images, these PDF files can only be used when the target print device is a FFPS APPE engine or VI eCompose. When targeting a PS engine, this resource type is invalid. When exporting your VIPP application to VI Projects (.vpc) you have the option to check the "Modify PDFs in Asset Folder with Embedded EPS information. When checked, this option will modify the original PDF by embedding an EPS version of the original PDF image inside the PDF. When targeting a PS VIPP enabled device, VIPP will use the embedded EPS information instead of the PDF. (The FreeFlow VI Explorer tool available from the e-Store contains a batch file that can be used to automate this embedding process as a pre-process step in the workflow if required, for more information refer to the VI Explorer 12.1 User's Guide).

NOTES

Advanced PDF options

Advanced PDF options such as transparency, are lost when generating the EPS image file, but are still retained in the PDF file. When printing the PDF to the PS interpreter, VIPP will use the embedded EPS language.

Do not use this option with the FFPS Adobe Print Engine (APPE)

When you design applications targeting the FFPS APPE that use PDF resources, it is not necessary to use this option. APPE can directly ingest the PDF resources in a VIPP application.

Strip Leading and Trailing Spaces for Field Data

This is a new option that is available during the import of a delimited data file. When selected, all leading and trailing spaces of the field values in the delimited file will be removed before processing the data records. By default this option is selected when you import a delimited file.

Customer Value

A customer may want to include leading or trailing spaces within the data fields to space data apart. This new option allows for this to be available to the customer by deselecting the option remove leading and trailing spaces in the data file fields.

Support for Large Page Size

The maximum page size has been modified to conform to Adobe InDesign 200" by 200" largest page size. This was requested to support wide format print devices that can support the FreeFlow VI Design Express PDF output export option.

Customer Value

Provides the customer a wider range of application types they can support.

NOTE

Other VIPP design and viewing tools are not designed to edit .vpc output or view VIPP applications with page sizes larger than 40" by 40" and many VIPP enabled output devices can only support sheet sizes smaller than that.

Enhancements

New operators added to the Rule dialog

Four new operators have been added to the Rule dialog:

[T] is greater than

[T] is greater than or equal to

[T] is less than

[T] is less than or equal to

These operators are meant to handle alphabetic or alphanumeric text string comparisons (e.g. Is "ABC123" >= "abc123"?).

Support for different page orientations

Support has been added for different page orientations (Portrait and Landscape) mixed within the same job.

Customer Value

A customer may want create a job with same size sheets, but different page orientation.

Bug Fixes

The Greek character "sigmafinal" was missing, this has now been added to VDE support.

Fixed bug that made VDE appear to freeze when exporting documents with many page layers and barcodes.

Fixed bug in page layer visibility when exported to .vpc.

Fixed bug that would stop export when layer was not visible.

Fixed unlinked bleed issue.

Fixed Font missing issues during export.

FreeFlow VI Design Pro 12.1

This section lists all new and enhanced VI Design Pro features available since the VI Design Pro 12.0 release. All features are part of this VI Design Pro 12.1 release. You can use your original Swap Key to obtain a 12.1 license for VI Design Pro.

New Features

Update to use VI Compose 12.1 command set

VDP has been updated to use the new features and enhancements made to the VIPP language. For example the use EAN8 or EAN13 barcodes in your applications without the need for a printer font.

Platform Support

Windows 8.1 and Windows Server 2012 R2 support have been added. Windows XP is no longer supported.

Embedding EPS Information into PDF

VI Design Pro provides an option to embed EPS information into PDF files using the File Menu “Modify PDF with embedded EPS”. In the VI Design Pro 12.1 distribution, under the folder C:\vide\pdftops (assuming VI Design Pro is installed on the C drive), there is a sample batch file (embed.bat) than can be used by a programmer to build an automated process to embed EPS information into PDF resource files. For more information on the use of this batch file refer to the “Automating the Embedding Process” in the VI Explorer section of this document or refer to the VI Explorer 12.1 User’s Guide.

Bug Fixes

Fixed error when attempting to display job resources thru UNC paths in the xgfdos.run file.

Fixed error in UNC paths that previously did not work when exporting a job to PDF.

Fixed Japanese "License Expiration" warning message

FreeFlow VI Explorer 12.1

This section lists all new and enhanced VI Explorer features available in the 12.1 release. You can use your original Swap Key (License) to obtain a 12.1 license for VI Explorer.

FreeFlow VI Explorer is a Windows based VIPP proofing tool. It can also support VIPP Normalization and Demographic modes.

NOTE

CiPress Users:

The architecture of the FFPS CiPress device requires a page independent file be submitted to the controller. To manage this the VI Compose software on CiPress has been modified to “VIPP Normalize” a VI Project Container file before passing the file on to print. The process of VIPP Normalization can add a significant amount of time prior to the application printing. An alternative to VIPP Normalization in-line in CiPress is to use the FreeFlow VI Explorer VIPP Normalization option. This allows the VIPP Normalization to happen outside of the CiPress. Once the VIPP file has been VIPP Normalized, it can be sent to the CiPress.

New Features

Update to use VI Compose 12.1 command set

VIE has been updated to support the new features and enhancements made to the VIPP language.

Platform Support

Windows 8.1 and Windows Server 2012 R2 support have been added. Windows XP is no longer supported.

Embed PDF with EPS

The FF VI Explorer has been updated to include a file menu option to embed EPS information into a PDF resource file, similar to the VI Design Pro and VI Design Express tools. In addition the VI Explorer distribution has been updated to include a batch file that can used to create an automated process to embed EPS information into PDF resources. It is necessary to perform this action if you are using PDF resources in your job and printing to a VIPP enabled PS RIP. This is not required if you are targeting a VIPP enabled APPE RIP.

Modify PDF with Embedded EPS

VIPP supports the use of PDF files as variable resources. However, VIPP can only use the actual PDF file when printing to an APPE engine. When printing to a PostScript engine, VIPP needs to modify the PDF by embedding EPS information into the PDF. The process to embed the PDF file with EPS can be done in one of these ways:

- Using the **File > Modify PDF with Embedded EPS** option in VI Explorer
- In line, using either VI Design Pro of VI Design Express, when adding PDF files to your project
- Using the supplied batch file (embed.bat) to create an automated process to embed EPS information into PDF files.

NOTES

Embedding EPS and processing time

VI Explorer and the VI design tools, VI Design Pro and VI Design Express, will detect any PDF file added to a project, and if the PDF is not embedded with EPS, will ask the user if they want to embed the EPS information into the PDF. This process can take several seconds per PDF. (Processing time will increase with page complexity, and when using multiple page PDFs.) To avoid interruption of your design work by this task, embed the EPS information in batch mode prior to editing the job. Refer to "Automating the Embedding Process" for more information.

Advanced PDF options

Advanced PDF options such as transparency, are lost when generating the EPS image file, but are still retained in the PDF file. When printing the PDF to the PS interpreter, VIPP will use the embedded EPS language.

Do not use this option with the FFPS Adobe Print Engine (APPE)

When you design applications targeting the FFPS APPE that use PDF resources, it is not necessary to use this option. APPE can directly ingest the PDF resources in a VIPP application.

Automating the Embedding Process

VI Explorer includes a batch file, **embed.bat**, which can be used in a user-defined process to automate the embedding process. This process must be executed on the Windows PC on which this version of VI Explorer is installed and licensed, otherwise this process will fail.

The steps that follow can be performed to validate that the embed batch file is properly installed and configured. All examples use Windows 7.

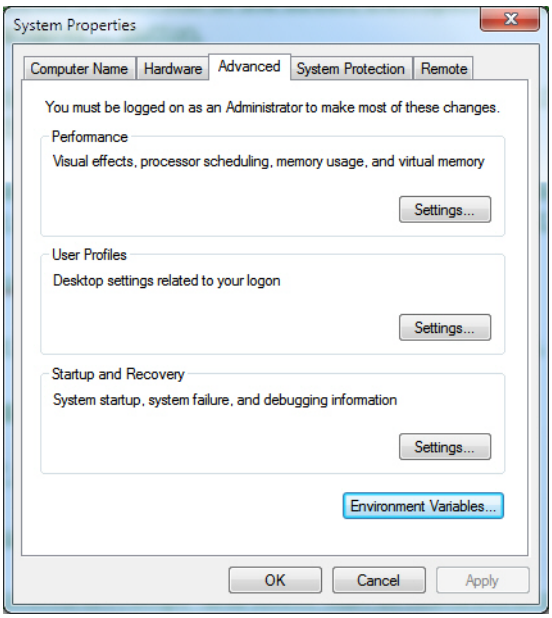
Step 1 - ensure that 'embed.bat' is in your Execution Path.

NOTE

To use this process you must be familiar with the use of batch files, setting environment variables and with general security and permission administration.

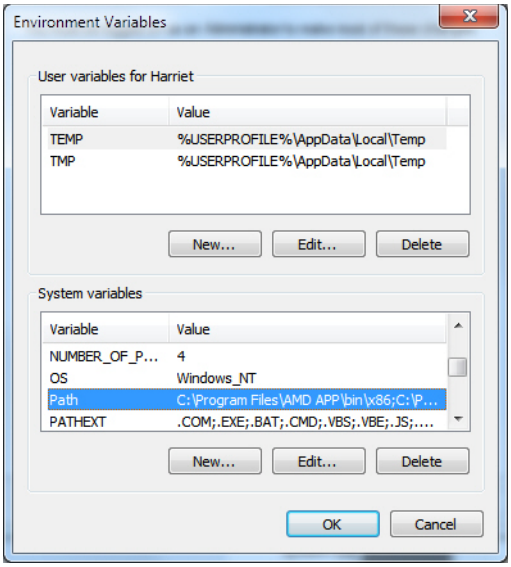
From the Windows screen, click on the **Windows Icon** to open the **Start** Menu. Next, click on **Control Panel**.

When the Control Panel is open, select **System and Security**, then select **System.** Choose **Advanced System Settings** from the left side of the screen, then open the **Advanced** tab.



Click on the **Environment Variables...** button.

Under **System variables** scroll down to the **Path** definition, select it and click on **Edit**. Inspect the contents of the **Path** environment variable.



If the path to the embed batch file is not a part of the Path environment variable, add it by placing the cursor at the end of the variable contents and adding the text:

```
;c:\vviewer\pdftops
```

NOTE

The leading semicolon must be included in the path.

When the path has been entered and verified, click on **OK**.

Step 2 - open a command prompt

From the Windows screen, click on the **Windows Icon** to open the **Start** Menu. Next, click on **All Programs**.

Click on **Accessories,** then right click on **Command Prompt**. A pull down menu will appear, select **Run as Administrator** from the pull down menu.

Change the directory to the root of your C: drive by entering:

```
cd c:\
```

Step 3 - testing the embed batch file

To test the embed batch file, create or identify a directory on your system that contains the PDF files you wish to embed. For example: C:\embed_test.

Place one or more PDF files in the directory. this example uses two PDF files: file1.pdf and file2.pdf.

Invoke the embed batch file specifying the full path of the directory. You should see something like this:

```
c:\>embed c:\embed_test
Embedding PDF files in directory c:\embed_test

Processing c:\embed_test\file1.pdf
Embed operation returned: 0

Processing c:\embed_test\file2.pdf
Embed operation returned: 0
```

The return value of 0 indicates that both files have successfully been embedded.

If you repeat the command you should see:

```
c:\>embed c:\embed_test
Embedding PDF files in directory c:\embed_test

Processing c:\embed_test\file1.pdf
Embed operation returned: 1

Processing c:\embed_test\file2.pdf
Embed operation returned: 1
```

A return value of 1 indicates that both files were previously embedded and no further processing of that file is necessary (this is also considered 'success').

Possible return values

0	Success
1	Already embedded, no further action taken (Success)
-1 to -199	License error, see console output for details
-201	Invalid parameter(s) to pdftonps.exe
-202	PDF Library init error
-203	Error opening input file
-204	Input file permissions error
-205	PDF Library internal error

NOTE

Technical details:

- The 'embed.bat' batch file acts as an 'ease of use' wrapper around a VI Explorer component (pdftonps.exe); the return values shown in the table above are actually returned by the pdftonps.exe component.
- Users wishing to customize the embedding operation, or otherwise integrate embedding into the workflow, can inspect the contents of the 'embed.bat' file to see how to invoke the pdftonps.exe component directly, or make a copy of the embed.bat file to a different name, and make alterations to the batch file itself to suit their purposes.
- With either method, pdftonps.exe requires a licensed installation of VI Explorer to function.
- pdftonps.exe cannot be moved from its location in the VI Explorer installation directory, as it depends upon other installed libraries and resources.

Enhancements and Bug Fixes

None

FreeFlow VI eCompose 12.1

This section lists all new and enhanced VI eCompose features available since the VFF VI eCompose 12.0 release. All features and enhancements are contained in the VI eCompose 12.1 release.You can use your original Swap Key (License) to obtain a 12.1 license for VI eCompose.

FF VI eCompose is a Windows based production level VIPP to PDF generator. It also supports additional features such as splitting the PDF into child PDFs, PDF security and a powerful rule based dispatch system.

New Features

VI Compose 12.1 support

VI eCompose has been updated to support the FreeFlow VI Compose 12.1 command set.

Platform Support

Windows 8.1 and Windows Server 2012 R2 support have been added. Windows XP is no longer supported.

SaaS - Web Job Submission Service

Introduced in the VIeC 12.0 release, but left here for informational purposes. VI eCompose 12.0 (and newer) have been augmented with a Web Job Submission service (IIS extension) to support an SaaS type of environment. This initial .Net/IIS interface is targeted at a specific type of workflow. Please review the Web Job Submission Service section at the end of this section for more information.

Customer Value

For customers who run a kiosk type operation, the Web Job Submission Service enables the fastest job turn around possible. The customers web interface (IIS) generating the orders can send the Web Job Submission Service (WJSS) records as they become available and WJSS will process those records, taking advantage of the multiple instance engines, and publish back to the sender the location of the PDF. The advantage of this is SPEED when running multiple (1,000's) of small jobs all the time.

Enhancements and Bug Fixes

The VIeC Server module has been enhanced to scan more efficiently a large number of job requests and select the next job for processing. In prior releases, when an extremely large job pool was being scanned, the performance of VIeC could negatively be impacted.

Fixed Japanese "License Expiration" warning.

Important Information about PDF

Adobe PDF Print Engine (APPE)

PDF output from the design tools or FreeFlow VI eCompose is APPE compliant. However, no media or finishing control is available.

Media and finishing control is available with PDF output when generated by FreeFlow VI eCompose and printing to the FFPS OR when printing VIPP directly to the FFPS using the APPE path.

To print to the FFPS, you must set the FFPS queue to APPE and the format must also be set to PDF.

It is also critical to have the very latest FFPS software installed on the target print device. (93.D4.x.x or above).

Speed Increase for VIPP to PDF generation

With the introduction of FreeFlow VI Compose 11.0d and the use of that version of software in the VIPP to PDF generation tools mention below, the time to generate a typical variable data application using cacheable objects has been greatly increased.

A test file generating 22,688 pages took **2 hours** using the 11.0SP1 version of the tool set, and **40 minutes** using the 12.0 versions of the tool sets.

NOTE

As with any mechanism that deals in cashing reusable objects, not all jobs will benefit from the same performance increase.

PDF using VI Suite tool set

A VIPP job can be converted to PDF using one of three methods.

1. VI eCompose is the FreeFlow VI Suite production level VIPP to PDF solution. The VI eCompose runs on a Windows server. Four input clients are provided, including lpr, Watched Folder or Web submission client. The VI eCompose, based on the content of the VIPP application will generate a Master PDF, it can also generate Child PDF files and move those PDF files to the next step in your workflow using the VI eCompose Dispatch module. For more information on FreeFlow VI eCompose, refer to the *FreeFlow VI eCompose User's Guide* or www.xerox.com.

2. VI Design Pro, the interactive design environment for the generation of code based VIPP applications has an "Export job as PDF" option under the file menu. This option can be used to generate a Master PDF file. For more information on FreeFlow VI Design Pro, refer to the *FreeFlow VI Design Pro User's Guide* or www.xerox.com.

3. VI Design Express, the Adobe InDesign plug-in that will run on a Windows PC or a Mac OS system. This allows for rapid development of delimited based VIPP applications. FreeFlow VI Design Express supports an option to generate PDF output using the "VI Design Express PDF" option from the InDesign Export menu.

Adobe Acrobat and Adobe reader Information

If using PDF Objects as VIPP resources in your VIPP application and you need to view the PDF file output from VI eCompose using Adobe Acrobat or Reader you will need to ensure you are using a compatible version of Adobe Acrobat/Reader software.

Adobe Acrobat 10.1.4 and above and Reader 10.1.4 and above support this feature.

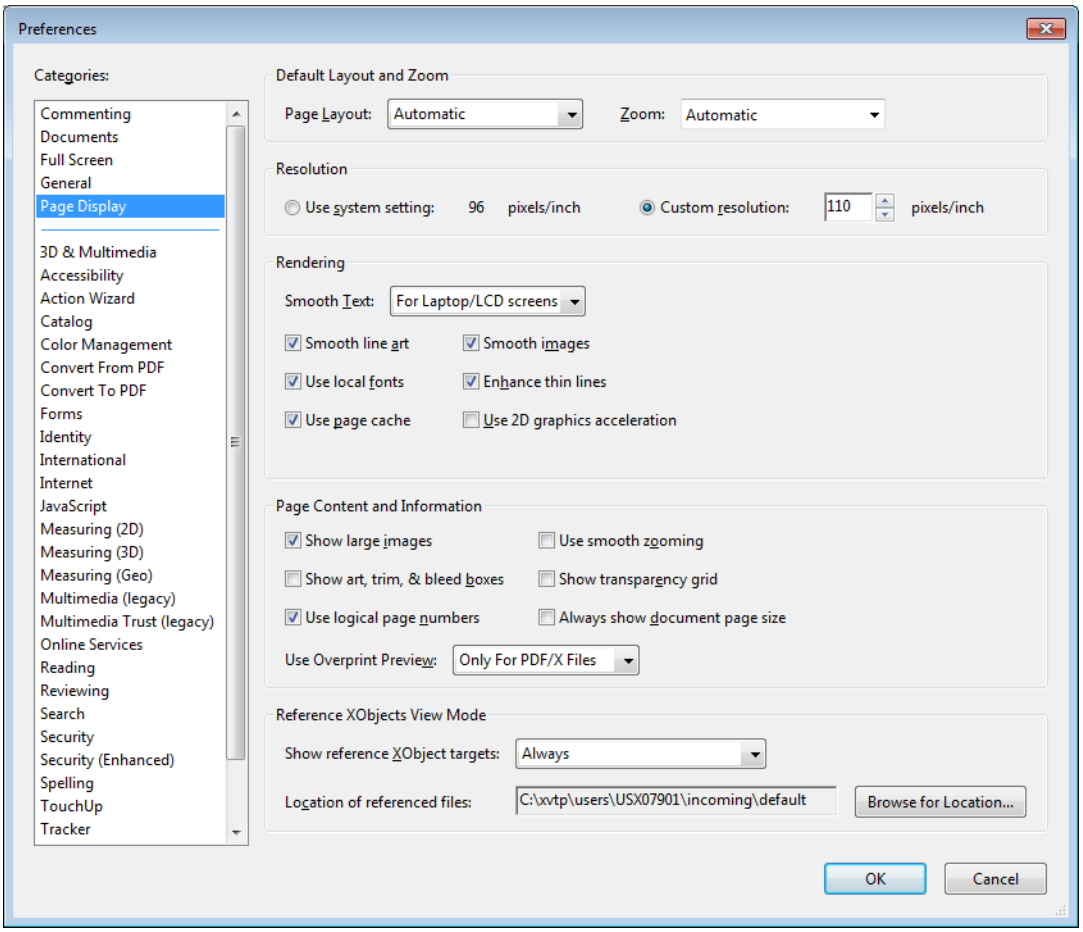
In order to view PDF files that contain VIPP PDF resources, you must open the PDF file from an Adobe Acrobat/Reader privileged folder. To create such a folder you must edit the following Acrobat/Reader preferences:

- **Category: Page Display:**
  Under “Reference XObjects View Mode” set “Show reference XObject targets” to **Always** and “Location of referenced files” to the directory containing the PDFs generated by VIeC.

NOTE

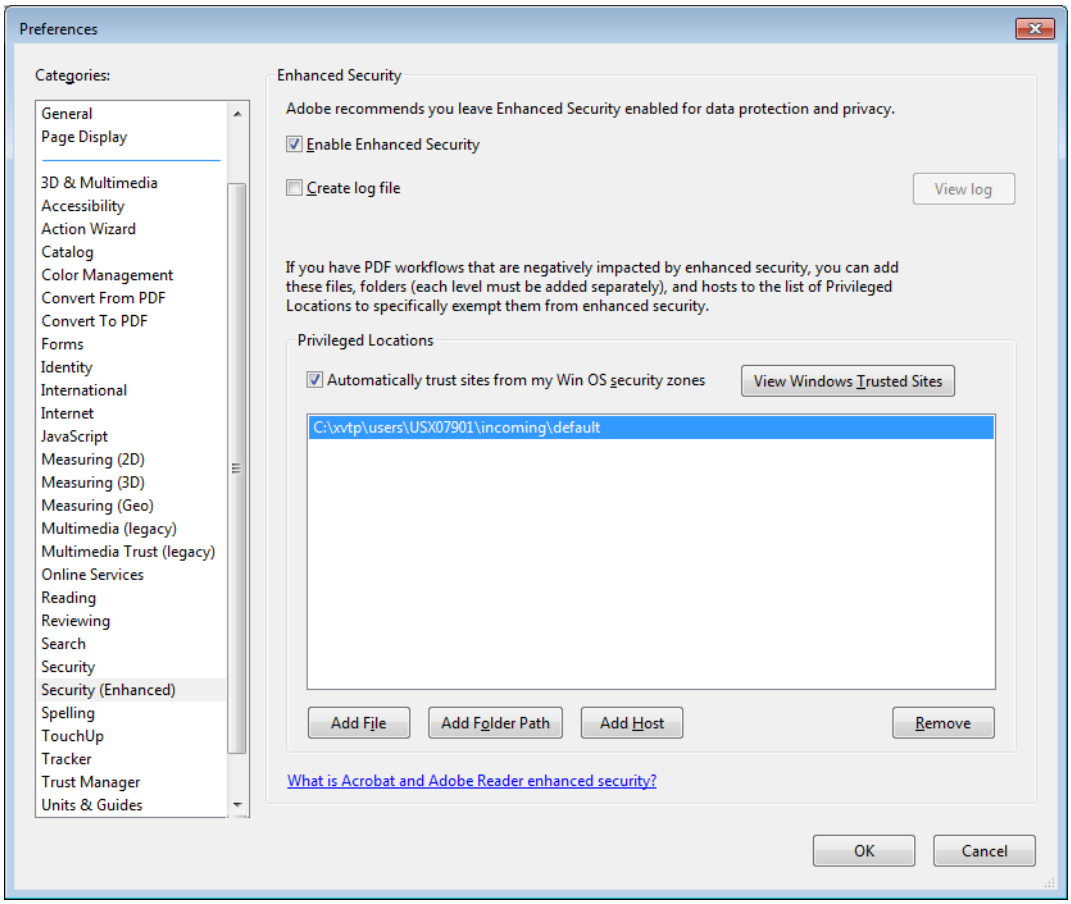
It is recommended that you select the VIeC incoming folder instead of the folder containing a specific job.

As long as all of the PDF's generated by VIeC are under the same incoming folder hierarchy then all referenced PDFs should be found and properly displayed.



- **Category: Security (Enhanced):**
  Under "Privileged Locations" click on "**Add Folder Path**" and specify the same folder as specified for "Location of referenced files".

Note that referenced XObjects are independent of the Enhanced Security checkbox. The state of the checkbox does not govern viewing of referenced XObjects.



Any of the following will cause Acrobat/Reader to display "Missing:" followed by the name of the PDF resource:

- The version of Acrobat/Reader does not support Referenced XObjects,
- The preferences were not setup correctly, or
- The PDF file was opened from a non-privileged folder.

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